WORKSOURCE OREGON
EMPLOYMENT DEPARTMENT

2010 STANDARD OCCUPATIONAL CLASSIFICATION DESCRIPTIONS

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Banquet Cooks	35-2014
Banquet Directors	11-9051
Banquet Supervisors	35-1012
Bar Backs	35-9011
Bar Managers	35-1012
Barber Apprentices	39-5011
Barbering Instructors	25-1194
Barbers	39-5011
Barbers, Master	39-5011
Barge Captains	53-5021

Barge Engineers	53-5031
Barge Loaders	53-7121
Barkeeps	35-3011
Bartender Helpers	35-9011
Bartenders	35-3011
Baseball Scouts	27-2022
Batchmakers, Food	51-3091
Bathhouse Attendants	39-3093
Battery Builders	51-2022
Beach Lifeguards	33-9092
Beauticians	39-5012
Bed and Breakfast Innkeepers	11-9081
Behavioral Disorder Counselors	21-1011
Behavioral Health Technicians	29-2053
Bellhops, Baggage	39-6011
Bellstaff	39-6011
Bench Carpenters	51-7011
Benders, Neon Tube	51-9195
Benefits Managers	11-3111
Benefits Specialists	13-1141
Betting Clerks	39-3012
Beveling and Edging Machine Operators	51-9021
Bicycle Mechanics	49-3091
Bicycle Messengers	43-5021
Bicycle Repairers	49-3091
Bicycle Service Technicians	49-3091
Bilingual Kindergarten Teachers	25-2012
Bill and Account Collectors	43-3011
Bill Collectors	43-3011
Billboard Posters	47-2142
Billing and Posting Clerks	43-3021
Billing Clerks	43-3021
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Biochemists	19-1021
Biochemists and Biophysicists	19-1021
Biochemists, Clinical	19-1021
Biochemists, Physical	19-1021
Biodiesel Engine Specialists	49-3031
Biological Chemists	19-1021
Biological Science Teachers, Postsecondary	25-1042
Biological Scientists, All Other	19-1029
Biological Technicians	19-4021
Biologists, Marine	19-1023
Biologists, Wildlife	19-1023
Biomaterials Engineers	17-2031
Bio-Mechanical Engineers	17-2031
Biomedical Engineering Technicians	17-3029
Biomedical Engineers	17-2031
Biomedical Equipment Technicians	49-9062
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Bird Trappers	45-3021
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Blast Hole Drillers	47-5021
Blast Setters	47-5031
Blaster Helpers	47-5081
Blasters	47-5031
Blenders, Asphalt	51-9023
Blenders, Honey	51-3092

Blenders, Ink	51-9023
Blending Machine Operators	51-9023
Blending Machine Setters	51-9023
Blending Machine Tenders	51-9023
Blending Tank Helpers	51-9198
Blind Escorts	39-9021
Blind Stitch Machine Operators	51-6031
Blockmasons	47-2021
Blockmasons Helpers	47-3011
Blood Bank Laboratory Technologists	29-2011
Blood Donor Recruiters	41-9099
Blow Mold Operators	51-4072
Blowers, Ceiling Insulation	47-2131
Blowers, Glass	51-9195
Blueprint Tracers	17-3019
Boat Hops	35-3041
Bodyguards	33-9032
Boiler Coverers	47-2132
Boiler Engineers	51-8021
Boiler Installers	47-2011
Boiler Mechanics	47-2011
Boiler Operators	51-8021
Boiler Room Operators	51-8021
Boiler Testers	47-2011
Boilerhouse Mechanics	49-9041
Boilermakers	47-2011
Bolters, Underground Roof	47-5061
Bond Underwriters	13-2053
Bondactor Machine Operators	49-9045
Bondsmen, Bail	13-2099
Book Conservators	25-4013
Bookbinders	51-5113
Bookbinding Machine Operators	51-5113
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Boom Crane Operators	53-7021
Booth Cashiers	41-2012
Border Patrol Officers	33-3051
Bore Miner Operators	47-5042
Boring Machine Tool Operators, Metal and Plastic	51-4032
Boring Machine Tool Setters, Metal and Plastic	51-4032
Boring Machine Tool Tenders, Metal and Plastic	51-4032
Boring Mill Operators for Metal	51-4032
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Bosses, Pit	39-1011
Bosses, Quarry	47-1011
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Bottle Cappers	51-9111
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Brace Makers	51-9082
Bradley Linebacker Crewmembers	55-3013
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Brass and Wind Instrument Repairers	49-9063
Brass Rollers	51-4023

Brazers	51-4121
Brazing Machine Operators	51-4122
Brazing Machine Setters	51-4122
Brazing Machine Tenders	51-4122
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Breeders, Animal	45-2021
Breeders, Horse	45-2021
Brewery Pumpers	53-7072
Brewmasters	51-9012
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Brick Chimney Builders	47-2021
Brick Makers	51-9041
Brick Washers	47-3011
Bricklayers, Refractory	47-2021
Brickmasons	47-2021
Brickmasons and Blockmasons	47-2021
Brickmasons Helpers	47-3011
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Bridge Ironworkers	47-2221
Bridge Painter Helpers	47-3014
Bridge Painters	47-2141
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Broadcast News Analysts	27-3021
Broadcast Technicians	27-4012
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Brokers, Grain	13-1021
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Brokers, Real Estate	41-9021
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Brokers, Wholesale Diamond	41-4012
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Budget Examiners	13-2031
Budget Officers	13-2031
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Buffing Machine Tool Setters, Metal and Plastic	51-4033
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Builders, Anode	51-2022
Builders, Battery	51-2022
Builders, Brick Chimney	47-2021
Builders, Cabinet	51-7011
Builders, Coil	51-2021
Builders, Crate	51-2099
Builders, Custom Wood Stair	47-2031
Builders, Fiberglass Boat	51-2091
Builders, Kiln Door	49-9045
Builders, Machine	51-2031
Builders, Plastic Jig and Fixture	51-4061
Builders, Tire	51-9197
Builders, Wire Fence	47-4031
Builders, Wood Jig	51-7031
Building Architects	17-1011
Building Architectural Designers	17-1011
Building Carpenters	47-2031
Building Cleaning Supervisors	37-1011

Building Cleaning Workers, All Other	37-2019
Building Drafters	17-3011
Building Inspectors	47-4011
Building Maintenance Mechanics	49-9071
Building Managers	11-9141
Building Pressure Washers	37-2019
Building Rental Managers	11-9141
Bulk Mail Clerks	43-5051
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Bulldozer Operators	47-2073
Burglar Alarm Installers	49-2098
Bus and Truck Mechanics and Diesel Engine Specialists	49-3031
Bus Drivers, Intercity	53-3021
Bus Drivers, School or Special Client	53-3022
Bus Drivers, Special Client	53-3022
Bus Drivers, Transit	53-3021
Bus Drivers, Transit and Intercity	53-3021
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Business Management Analysts	13-1111
Business Managers of Artists	13-1011
Business Managers of Athletes	13-1011
Business Managers of Performers	13-1011
Business Operations Specialists, All Other	13-1199
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Busters, Steel Rod	47-2171
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Butcher Apprentices	51-3021
Butchers	51-3021
Butchers and Meat Cutters	51-3021
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Butlers	39-9099
Button Sewing Machine Operators	51-6031
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Buyers, Farm Products	13-1021
Buyers, Fruit	13-1021
Buyers, Gold	13-1022
Buyers, Grain	13-1021
Buyers, Livestock	13-1021
Buyers, Merchandise	13-1022
Buyers, Radio Time	13-1023
Buyers, Tobacco	13-1021
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C-13 Catapult Operators	55-3012
C2 Tactical Analysis Technicians	55-3015
Cab Drivers	53-3041
Cabinet Builders	51-7011
Cabinetmakers	51-7011
Cabinetmakers and Bench Carpenters	51-7011
Cable Television Installers	49-9052
Caddies, Golf	39-3091
Caddy Masters	39-1021
Cafeteria Attendants	35-9011
Cafeteria Cooks	35-2012
Cafeteria Counter Attendants	35-3022
Cafeteria Servers	35-3022

Cage Cashiers	43-3041
Calculus Professors	25-1022
Calibrators, Electrical Timing Device	51-2093
Callers, Train	27-3012
Calligraphers	27-1019
Camera and Photographic Equipment Repairers	49-9061
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Camera Operators, Television	27-4031
Camera Operators, Television, Video, and Motion Picture	27-4031
Camera Operators, Video	27-4031
Camera Repairers	49-9061
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Camp Counselors	39-9032
Campaign Fundraisers	13-1131
Cancer Registrars	29-2071
Cancer Researchers	19-1042
Candy Makers	51-3092
Canvas Cutters	51-6062
Cappers, Bottle	51-9111
Captains	53-5021
Captains, Airline	53-2011
Captains, Barge	53-5021
Captains, Mates, and Pilots of Water Vessels	53-5021
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Car Alarm Installers	49-2096
Car Rental Agents	41-2021
Car Stereo Installers	49-2096
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Cardiac Catheterization Technologists	29-2031
Cardiologists	29-1069
Cardiology Nurse Practitioners	29-1171
Cardiovascular Surgeons	29-1067
Cardiovascular Technicians	29-2031
Cardiovascular Technologists	29-2031
Cardiovascular Technologists and Technicians	29-2031
Cardroom Supervisors	39-1011
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Career Technical Counselors	21-1012
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Caretakers, Lawn	37-3011
Caretakers, Nonfarm Animal	39-2021
Cargo Agents	43-5011
Cargo and Freight Agents	43-5011
Cargo Handlers	53-7062
Cargo Routers	43-5011
Carpenter Assistants	47-3012
Carpenter Supervisors	47-1011
Carpenters	47-2031
Carpenters Helpers	47-3012
Carpenters, Bench	51-7011
Carpenters, Building	47-2031
Carpentry Managers	11-9021
Carpet Installers	47-2041
Carpet Layers	47-2041
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Carriers, Newspaper	41-9091
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Cartographers and Photogrammetrists	17-1021
Cartographers, Digital	17-1021
Cartographic Technicians	17-3031
Cartography Professors	25-1064
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Carvers, Wood	51-7099
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Cash Register Operators	41-2011
Cash Register Servicers	49-2011
Cashier Supervisors	41-1011
Cashiers	41-2011
Cashiers, Booth	41-2012
Cashiers, Cage	43-3041
Cashiers, Casino	43-3041
Casino Cashiers	43-3041
Casino Investigators	33-9031
Casino Managers	11-9071
Casino Slot Supervisors	39-1012
Casino Surveillance Officers	33-9031
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Casters, Except Metal and Plastic	51-9195
Casters, Ingot	51-4052
Casters, Metal	51-4052
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Casting Machine Operators, Metal and Plastic	51-4072
Casting Machine Setters, Metal and Plastic	51-4072
Casting Machine Tenders, Metal and Plastic	51-4072
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Cattle Examiners	45-2011
Cavalry Officers	55-1013
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Cellular Equipment Installers	49-2021
Cellular Equipment Repairers	49-2021
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Cement Masons	47-2051
Cement Masons and Concrete Finishers	47-2051
Cement Patchers	47-2051
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Centerers and Edgers, Precision Lens	51-9083
Central Sterile Supply Technicians	31-9093
Ceramic Engineers	17-2131
Ceramic Painters	51-9123
Ceramic Scientists	19-2032
Ceramic Tile Installers	47-2044
Ceramists, Dental	51-9081
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Certified Dental Assistants	31-9091
Certified Detention Deputies	33-3012

Certified Marine Mechanics	49-3051
Certified Morticians	39-4031
Certified Nuclear Medicine Technologists	29-2033
Certified Nurse Aides	31-1014
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Certified Nursing Assistants	31-1014
Certified Occupational Therapy Assistants	31-2011
Certified Orthotic Fitters	29-2091
Certified Personal Chefs	35-2013
Certified Pharmacy Technicians	29-2052
Certified Public Accountants	13-2011
Certified Recreational Therapists	29-1125
Certified Registered Nurse Anesthetists (CRNA)	29-1151
Certified Respiratory Therapy Technicians	29-2054
Certified Surgical Technologists	29-2055
Certified Vehicle Fire Investigators	33-2021
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Charter Pilots (Air Transport Pilot Certificate Required)	53-2011
Charter Pilots (Airline)	53-2011
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Chefs, Private	35-2013
Chefs, Sous	35-1011
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Chemical Engineering Teachers	25-1032
Chemical Engineers	17-2041
Chemical Equipment Operators	51-9011
Chemical Equipment Operators and Tenders	51-9011
Chemical Equipment Tenders	51-9011
Chemical Laboratory Technicians	19-4031
Chemical Plant and System Operators	51-8091
Chemical Plant Operators	51-8091
Chemical Process Equipment Operators	51-9011
Chemical System Operators	51-8091
Chemical Technicians	19-4031
Chemical, Biological, Radiological, and Nuclear (CBRN) Officers	55-1019
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Chemists	19-2031
Chemists, Atmospheric	19-2021
Chemists, Biological	19-1021
Chemists, Food	19-2031
Chemists, Industrial	19-2031

Chemists, Inorganic	19-2031
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Cherry Picker Operators	53-7021
Chief Executives	11-1011
Chief Technology Officers	11-3021
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Child and Family Counselors	21-1013
Child Development Professors	25-1066
Child Psychologists	19-3031
Child Social Workers	21-1021
Child Welfare Directors	11-9151
Child, Family, and School Social Workers	21-1021
Childcare Center Administrators	11-9031
Childcare Center/Program Education Administrators	11-9031
Childcare Workers	39-9011
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Chiropractic Assistants	31-9092
Chiropractic Physicians	29-1011
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Choirmasters	27-2041
Choral Directors	27-2041
Choreographers	27-2032
Chromosomal Disorders Counselors	29-9092
Churn Drillers	47-5021
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Circuit Design Engineers	17-2072
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City Planners	19-3051
City Planning Aides	19-4061
Civil Computer-Aided Design and Drafting Technicians	17-3011
Civil Drafters	17-3011
Civil Engineering Professors	25-1032
Civil Engineering Teachers	25-1032
Civil Engineering Technicians	17-3022
Civil Engineers	17-2051
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Cleaners of Vehicles and Equipment	53-7061

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Cleaners, Housekeeping	37-2012
Cleaners, Immersion Metal	51-9192
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Cleaners, Sewer Pipe	47-4071
Cleaners, Silverware	35-9021
Cleaning Equipment Operators	51-9192
Cleaning Equipment Tenders	51-9192
Cleaning Staff Supervisors	37-1011
Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	51-9192
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Clerical Library Assistants	43-4121
Clerical Supervisors	43-1011
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Clinic Directors	11-9111
Clinical Audiologists	29-1181
Clinical Biochemists	19-1021
Clinical Dietitians	29-1031
Clinical Exercise Physiologists	29-1128
Clinical Laboratory Technicians	29-2012
Clinical Laboratory Technologists	29-2011
Clinical Nurse Specialists	29-1141
Clinical Nursing Professors	25-1072
Clinical Psychologists	19-3031
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Coffee Roasters	51-3091
Coffee Shop Counter Attendants	35-3022
Coffee Shop Hostesses	35-9031
Coffee Shop Hosts	35-9031
Coil Builders	51-2021
Coil Finishers	51-2021
Coil Tapers	51-2021
Coil Winders	51-2021
Coil Winders, Tapers, and Finishers	51-2021
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Coin Machine Repairers	49-9091
Coin Machine Servicers	49-9091
Coin Wrapping Machine Operators	43-9071
Coin, Vending, and Amusement Machine Servicers and Repairers	49-9091
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Collectors, Account	43-3011
Collectors, Bill	43-3011
Collectors, Debt	43-3011
Collectors, Garbage	53-7081
Collectors, Parking Meter	49-9091
Collectors, Recyclable Material	53-7081
Collectors, Recyclable Materials	53-7081
Collectors, Refuse	53-7081
Collectors, Revenue	13-2081
Collectors, Tax	13-2081
Collectors, Ticket	39-3031
Collectors, Toll	41-2011
Collectors, Trash	53-7081
Columnists	27-3022
Combat Information Center Officers	55-1015
Combatant Swimmers (SEAL)	55-3018
Combination Machine Tool Operators	51-4081
Combine Mechanics	49-3041
Combine Operators	45-2091
Combined Food Preparation and Serving Workers, Including Fast Food	35-3021
Combustion Engineers	17-2141
Comedians	27-2099
Command and Control Center Officers	55-1015
Command and Control Center Specialists	55-3015
Command and Control Officers	55-1015
Command and Control Systems Integrators	55-1015
Command Center Officers	55-1015
Command Center Specialists	55-3015
Command Post Craftsmen	55-3015
Command Post Superintendents	55-2013
Commanding Officers Homicide Squad	33-1012
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Commercial and Industrial Designers	27-1021
Commercial Baker Helpers	51-9198
Commercial Credit Reviewers	43-4041
Commercial Designers	27-1021
Commercial Divers	49-9092
Commercial Equipment Electrical and Electronics Repairers	49-2094
Commercial Lenders	13-2072
Commercial Pilots	53-2012
Commissioners, Mediation	23-1022
Commodities Clerks	43-4011
Commodities Sales Agents	41-3031
Communication Equipment Workers, All Other	27-4099
Communication Workers, All Other	27-3099
Communications Equipment Operators, All Other	43-2099
Communications Teachers, Postsecondary	25-1122
Community and Social Service Specialists, All Other	21-1099
Community Association Managers	11-9141
Community Development Planners	19-3051
Community Health Education Coordinators	21-1091
Community Health Workers	21-1094
Community Mental Health Social Workers	21-1023
Community Organization Workers	21-1099
Community Service Managers	11-9151
Community Service Specialists, All Other	21-1099
Compacting Machine Operators	51-9041

Compacting Machine Setters	51-9041
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Compensation and Benefits Managers	11-3111
Compensation Directors	11-3111
Compensation Managers	11-3111
Compensation Specialists	13-1141
Compensation, Benefits, and Job Analysis Specialists	13-1141
Competition Judges	27-2023
Competitors, Sports	27-2021
Compliance Officers	13-1041
Composers	27-2041
Composers, Music	27-2041
Composition Floor Layers	47-2042
Composition Weatherboard Installers	47-2131
Comptrollers	11-3031
Computational Theory Scientists	15-1111
Computed Tomography (CT) Scanner Operators	29-2034
Computed Tomography/Magnetic Resonance Imaging (CT/MRI) Technologists	29-2035
Computer and Information Research Scientists	15-1111
Computer and Information Systems Managers	11-3021
Computer Applications Engineers	15-1132
Computer Hardware Designers	17-2061
Computer Hardware Developers	17-2061
Computer Hardware Engineers	17-2061
Computer Information Systems Professors	25-1021
Computer Laboratory Technicians	15-1199
Computer Language Coders	15-1131
Computer Network Architects	15-1143
Computer Network Engineers	15-1143
Computer Network Support Specialists	15-1152
Computer Numerically Controlled (CNC) Shot Peening Operators	51-4011
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	51-4012
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Computer Operators	43-9011
Computer Peripheral Equipment Operators	43-9011
Computer Programmers	15-1131
Computer Repairers	49-2011
Computer Research Scientists	15-1111
Computer Science Teachers, Postsecondary	25-1021
Computer Security Specialists	15-1122
Computer Systems Administrators	15-1142
Computer Systems Analysts	15-1121
Computer Systems Managers	11-3021
Computer Systems Software Architects	15-1133
Computer Training Specialists	13-1151
Computer User Support Specialists	15-1151
Computer, Automated Teller, and Office Machine Repairers	49-2011
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Concierges, Activities	39-6012
Concierges, Hotel	39-6012
Conciliators	23-1022
Concrete Batch Plant Operators	51-8099
Concrete Finishers	47-2051
Concrete Floor Installers	47-2051
Concrete Pavement Installers	47-4091
Concrete Paving Machine Operators	47-2071
Concrete Swimming Pool Installers	47-2051

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Conductors, Orchestra	27-2041
Conductors, Railroad	53-4031
Conductors, Yard	53-4031
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Conservation Enforcement Officers	33-3031
Conservation Science Teachers, Postsecondary	25-1043
Conservation Scientists	19-1031
Conservation Technicians	19-4093
Conservation Workers	45-4011
Conservationists, Grassland	19-1031
Conservationists, Soil	19-1031
Conservators, Book	25-4013
Conservators, Document	25-4013
Conservators, Ethnographic Materials	25-4013
Conservators, Museum	25-4013
Conservators, Textile	25-4013
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Constitutional Law Professors	25-1112
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Construction and Related Workers, All Other	47-4099
Construction Coordinators	11-9021
Construction Craft Laborers	47-2061
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Construction Equipment Mechanics	49-3042
Construction Health and Safety Technicians	29-9012
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Construction Managers	11-9021
Construction Painters	47-2141
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Construction Superintendents	11-9021
Construction Trades Helpers, All Other	47-3019
Construction Trades Workers, First-Line Supervisors	47-1011
Construction Trench Diggers	47-2061
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Consultants, Educational	25-9031
Consultants, Labor Relations	13-1075
Consultants, Licensed Tax	13-2082
Consultants, Management	13-1111
Consultants, Marketing	13-1161
Consultants, Political	19-3094
Consultants, Travel Service	41-3041
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Contact Lens Opticians	29-2081
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Control and Valve Installers, Except Mechanical Door	49-9012
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Control Center Specialists	55-3015
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Control Tower Operators	53-2021
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Controllers, Enroute	53-2021
Controllers, Gas	51-8092
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Conveyor Belt Operators	53-7011
Conveyor Operators	53-7011
Conveyor Operators and Tenders	53-7011
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Cooks, Cafeteria	35-2012
Cooks, Camp	35-2012
Cooks, Falafel Cart	35-2019
Cooks, Fast Food	35-2011
Cooks, Fast Food Fry	35-2011
Cooks, Fraternity House	35-2019
Cooks, Galley	35-2012
Cooks, Griddle	35-2015
Cooks, Head	35-1011
Cooks, Institution	35-2012
Cooks, Institution and Cafeteria	35-2012
Cooks, Line	35-2014
Cooks, Mess	35-2012
Cooks, Private Household	35-2013
Cooks, Restaurant	35-2014
Cooks, School	35-2012
Cooks, Short Order	35-2015
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Cooling Equipment Operators	51-9193
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Coordinators, Alternative Dispute Resolution	23-1022
Coordinators, Audio-Visual Collections	25-9011
Coordinators, Community Health Education	21-1091
Coordinators, Construction	11-9021
Coordinators, Emergency Preparedness	11-9161
Coordinators, Flight Operations	53-2022
Coordinators, Instructional	25-9031
Coordinators, Multimedia Services	25-9011
Coordinators, Network	15-1142
Coordinators, Residence Life	39-9041
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Coremaking Machine Operators, Metal and Plastic	51-4072
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Corporate Financial Analysts	13-2051
Corporate Meeting Planners	13-1121
Corporate Securities Research Analysts	13-2051
Corporate Trainers	13-1151

Corporate Travel Experts	41-3041
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Correctional Officers	33-3012
Correctional Officers and Jailers	33-3012
Correctional Officers, First-Line Supervisors	33-1011
Correctional Treatment Specialists	21-1092
Corrections Sergeants	33-1011
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Corrugator Operators	51-9196
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Counselors, Alcohol and Drug	21-1011
Counselors, All Other	21-1019
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Counselors, Behavioral Disorder	21-1011
Counselors, Camp	39-9032
Counselors, Career	21-1012
Counselors, Career Technical	21-1012
Counselors, Chemical Dependency	21-1011
Counselors, Child and Family	21-1013
Counselors, Chromosomal Disorders	29-9092
Counselors, Credit	13-2071
Counselors, Debt Management	13-2071
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Counselors, Educational	21-1012
Counselors, Genetic	29-9092
Counselors, Grief	21-1019
Counselors, Guidance	21-1012
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Counselors, Licensed Mental Health (LMHC)	21-1014
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Counselors, Prenatal Genetic	29-9092
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Counselors, Rehabilitation	21-1015
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Counselors, Veterans Rehabilitation	21-1015
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Counselors, Vocational Rehabilitation	21-1015
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Counter Attendants, Coffee Shop	35-3022
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County Agricultural Agents	25-9021
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Couples Therapists	21-1013
Couriers	43-5021
Couriers and Messengers	43-5021
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Court Security Officers	33-3011
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Court, Clerks of	11-9199
Court, Municipal, and License Clerks	43-4031
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Craftsmen, In-Flight Refueling	55-3011
Craftsmen, Pararescue	55-3018
Craftsmen, Space Systems Operations	55-3017
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Crane Oilers	49-9043
Crane Operators	53-7021
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Crew Members, Armored Assault Vehicle	55-3013
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Crew Members, Military Enlisted Tactical Operations and Air/Weapons Specialists, All Other	55-3019
Crew Members, Missile	55-3014
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Criminal Justice Teachers, Postsecondary	25-1111
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Criminology Professors	25-1111
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Crochet Machine Operators	51-6063
Crop Scouts	45-2099
Crop, Nursery, and Greenhouse Farmworkers	45-2092
Crop, Nursery, and Greenhouse Laborers	45-2092
Crossing Guards	33-9091
Crown and Bridge Technicians	51-9081
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Crushing Machine Operators	51-9021
Crushing Machine Setters	51-9021
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Cryptographers	15-2021
Cryptographic Vulnerability Analysts	15-2021
Crystallographers	19-2042
Cue Selectors	27-4032
Cultural Anthropology Professors	25-1061
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Cupola Repairers	49-9045
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Curators, Herbarium	25-4012
Curators, Photography and Prints	25-4012
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Cutters, Fish	51-3022
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Cutters, Gem	51-9071
Cutters, Hand	51-9031
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Cutters, Meat	51-3022
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Cytogenetic Technologists	29-2011
Dairy Bacteriologists	19-1012
Dairy Equipment Repairers	49-3041
Dairy Farm Managers	11-9013
Dairy Husbandry Workers	45-2021
Dairy Processing Equipment Operators	51-9012
Dairy Scientists	19-1011
Dairy Technologists	19-4011
Dance Artists	27-2031
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Dancers, Tap	27-2031
Data Entry Keyers	43-9021
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Data Processing Equipment Repairers	49-2011
Data Processing Systems Analysts	15-1121
Data Typists	43-9021
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Database Developers	15-1132
Database Management System Specialists	15-1141
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Dental Hygienists	29-2021
Dental Laboratory Technicians	51-9081
Dental Secretaries	43-6013
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Dentists, All Other Specialists	29-1029
Dentists, Dentofacial Orthopedics	29-1023
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Dentists, General	29-1021
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Dentists, Reconstructive	29-1024
Dentists, Research	19-1042
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Designers, Fashion	27-1022
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Dialysis Technicians	29-2099
Diamond Polishers	51-9071
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Directors, Art	27-1011
Directors, Banquet	11-9051
Directors, Casting	27-2012
Directors, Child Welfare	11-9151
Directors, Choral	27-2041
Directors, Clinic	11-9111
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Directors, Cruise	39-7012
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Directors, Elementary School Band	25-2021
Directors, Emergency Management	11-9161
Directors, Employee Benefits	11-3111
Directors, Employee Development	11-3131
Directors, Family Service Center	11-9151
Directors, Financial	11-3031
Directors, Food Service	11-9051
Directors, Fundraising	11-2031
Directors, Funeral	39-4031
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Directors, Instructional Material	25-9031
Directors, Labor Relations	11-3121
Directors, Management Information Systems	11-3021
Directors, Manufacturing	11-3051
Directors, Marketing	11-2021
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Directors, Preschool	11-9031
Directors, Promotions	11-2011
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Directors, Public Safety	11-9161
Directors, Publicity	11-2031
Directors, Purchasing	11-3061
Directors, Records Management	11-3011
Directors, Religious Activities	21-2021
Directors, Religious Activities and Education	21-2021
Directors, Religious Education	21-2021
Directors, Sales	11-2022
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Dispatchers, Gas Plant	51-8092
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Distributors, Power	51-8012
District Sales Managers	11-2022
Divers, Commercial	49-9092
Divers, Marine	49-9092
Divers, Salvage	49-9092
Divers, Scuba	49-9092
Dividend Clerks	43-4011
Divinity Professors	25-1126
Dock Operations Supervisors	53-1031
Doctor of Veterinary Medicine (DVM)	29-1131
Doctors of Optometry	29-1041
Doctors, Foot	29-1081
Document Clerks	43-4071
Document Conservators	25-4013
Documentation Writers	27-3042
Doffers, Spinning	53-7063

Dog Catchers	33-9011
Dog Groomers	39-2021
Doll Makers	51-2099
Donor Relations Officers	13-1131
Door-to-Door Sales Workers	41-9091
Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	41-9091
Dormitory Counselors	39-9041
Dosimetrists	29-1124
Doughnut Machine Operators	51-3093
Drafters, Aeronautical	17-3013
Drafters, All Other	17-3019
Drafters, Architectural	17-3011
Drafters, Automotive Design	17-3013
Drafters, Building	17-3011
Drafters, Civil	17-3011
Drafters, Electrical	17-3012
Drafters, Electrical Systems	17-3012
Drafters, Electronics	17-3012
Drafters, Geological	17-3019
Drafters, Marine	17-3019
Drafters, Mechanical	17-3013
Drafters, Printed Circuit Board	17-3012
Drafters, Structural	17-3011
Dragline Operators	53-7032
Drama Teachers, Postsecondary	25-1121
Drama Therapists	29-1125
Dramatic Readers	27-2011
Drawbridge Operators	53-6011
Drawing Frame Operators	51-6064
Drawing Machine Operators, Metal and Plastic	51-4021
Drawing Machine Setters, Metal and Plastic	51-4021
Drawing Machine Tenders, Metal and Plastic	51-4021
Dredge Operators	53-7031
Dredgers	53-7031
Dress Designers	27-1022
Dressers, Theatrical Wardrobe	39-3092
Dressing Room Attendants	39-3093
Dressmakers	51-6052
Drier Operators	51-9051
Drier Tenders	51-9051
Drill Press Operators for Metal	51-4032
Drillers, Blast Hole	47-5021
Drillers, Churn	47-5021
Drillers, Earth, Except Oil and Gas	47-5021
Drillers, Oil Well	47-5012
Drillers, Quarry Plug and Feather	47-5051
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4032
Drilling Machine Tool Operators, Metal and Plastic	51-4032
Drilling Machine Tool Setters, Metal and Plastic	51-4032
Drilling Machine Tool Tenders, Metal and Plastic	51-4032
Driver/Sales Workers	53-3031
Driver's License Examiners	13-1041
Drivers, Ambulance, Except Emergency Medical Technicians	53-3011
Drivers, Auto Carrier	53-3032
Drivers, Bus, Intercity	53-3021
Drivers, Bus, School or Special Client	53-3022
Drivers, Bus, Transit	53-3021
Drivers, Cab	53-3041
Drivers, Cement Truck	53-3032
Drivers, Coal Tram	53-4013

Drivers, Courtesy Van	53-3041
Drivers, Delivery Services	53-3033
Drivers, Emergency Medical Services (EMS)	53-3011
Drivers, Hearse	53-3041
Drivers, Light Truck	53-3033
Drivers, Limousine	53-3041
Drivers, Motor Coach Bus	53-3021
Drivers, Moving Van	53-3032
Drivers, Newspaper Delivery	53-3031
Drivers, Pharmacy Delivery	53-3033
Drivers, Pizza Delivery	53-3031
Drivers, Public Transit Bus	53-3021
Drivers, Race Car	27-2021
Drivers, Rickshaw	53-6099
Drivers, Special Education Bus	53-3022
Drivers, Taxi	53-3041
Drivers, Vibratory Pile	47-2072
Drug Abuse Social Workers	21-1023
Dry Cleaning Counter Clerks	41-2021
Dry Placer Machine Operators	47-5049
Dry Plasterer Helpers	47-3014
Dry-Cleaning Workers	51-6011
Drying Machine Operators and Tenders, Food and Tobacco	51-3091
Drywall and Ceiling Tile Installers	47-2081
Drywall Finishers	47-2081
Drywall Hanger Helpers	47-3019
Drywall Installers	47-2081
Drywall Tapers	47-2082
Dumpling Machine Operators	51-3093
Dusters, Aerial Crop	53-2012
Dyers, Cloth	51-6061
Dyers, Rug	51-6061
Dyers, Skein Yarn	51-6061
Dynamicists, Fluid	19-2012
Dynamiters	47-5031
Early Childhood Special Education Teachers	25-2051
Earth Auger Operators	47-5021
Earth Boring Machine Operators	47-5021
Earth Drillers, Except Oil and Gas	47-5021
Earth Sciences Teachers, Postsecondary	25-1051
Eastern Philosophy Professors	25-1126
Echocardiographers	29-2031
Ecologists, Forest	19-1032
Ecologists, Range	19-1031
Econometricians	19-3011
Econometrics Professors	25-1063
Economic Geographers	19-3092
Economic Research Analysts	19-3011
Economic Research Assistants	19-4061
Economics Teachers, Postsecondary	25-1063
Economists	19-3011
Economists, Environmental	19-3011
Economists, Home	25-9021
Economists, Industrial	19-3011
Editorial Assistants	43-9081
Editors	27-3041
Editors, Advertising	27-3041
Editors, Copy	27-3041
Editors, Fan Mail	43-4021
Editors, Film	27-4032

Editors, Sound	27-4014
Editors, Technical	27-3041
Editors, Television News Video	27-4032
Editors, Video	27-4032
Education Administrators, All Other	11-9039
Education Administrators, Childcare Center/Program	11-9031
Education Administrators, Elementary and Secondary School	11-9032
Education Administrators, Elementary School	11-9032
Education Administrators, Postsecondary	11-9033
Education Administrators, Preschool	11-9031
Education Administrators, Preschool and Childcare Center/Program	11-9031
Education Administrators, Secondary School	11-9032
Education Teachers, Postsecondary	25-1081
Education Workers, All Other	25-9099
Education, Training, and Library Workers, All Other	25-9099
Educational Consultants	25-9031
Educational Counselors	21-1012
Educational Psychology Professors	25-1066
Educational Specialists	25-9031
Educational, Guidance, School, and Vocational Counselors	21-1012
Educators, Agricultural Extension	25-9021
Educators, Diabetes	21-1091
Educators, Health	21-1091
Educators, Public Health	21-1091
Efficiency Engineers	17-2112
Egg Graders	45-2041
Egg Packers	53-7064
EKG Technicians	29-2031
Elderly Companions	39-9021
E-Learning Managers	11-3131
Election Clerks	43-4199
Electric Arc Furnace Operators	51-4051
Electric Meter Readers	43-5041
Electric Motor Controls Assemblers	51-2022
Electric Motor Repairers	49-2092
Electric Motor, Power Tool, and Related Repairers	49-2092
Electric Powerline Examiners	49-9051
Electric Sewer Cleaning Machine Operators	47-4071
Electric Utility Lineworkers	49-9051
Electrical and Electronic Equipment Assemblers	51-2022
Electrical and Electronics Drafters	17-3012
Electrical and Electronics Engineering Technicians	17-3023
Electrical and Electronics Installers and Repairers, Transportation Equipment	49-2093
Electrical and Electronics Repairers, Commercial and Industrial Equipment	49-2094
Electrical and Electronics Repairers, Powerhouse	49-2095
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	49-2095
Electrical and Electronics Repairers, Relay	49-2095
Electrical and Electronics Repairers, Substation	49-2095
Electrical Computer-Aided Design and Drafting Technicians	17-3012
Electrical Design Technicians	17-3023
Electrical Discharge Machine Setup Operators	51-4199
Electrical Drafters	17-3012
Electrical Engineering Professors	25-1032
Electrical Engineering Teachers	25-1032
Electrical Engineering Technicians	17-3023
Electrical Engineers	17-2071
Electrical Equipment Assemblers	51-2022
Electrical High Tension Testers	49-9051
Electrical Inspectors	47-4011
Electrical Installers, Transportation Equipment	49-2093

Electrical Lineworkers	49-9051
Electrical Parts Reconditioners	49-2092
Electrical Power-Line Installers	49-9051
Electrical Power-Line Installers and Repairers	49-9051
Electrical Power-Line Repairers	49-9051
Electrical Repairers, Commercial and Industrial Equipment	49-2094
Electrical Repairers, Powerhouse	49-2095
Electrical Repairers, Relay	49-2095
Electrical Repairers, Substation	49-2095
Electrical Repairers, Transportation Equipment	49-2093
Electrical Sign Wirers	47-2111
Electrical Systems Drafters	17-3012
Electrical Systems Engineers	17-2071
Electrical Timing Device Calibrators	51-2093
Electricians	47-2111
Electricians Helpers	47-3013
Electricians, Aircraft	49-2091
Electricians, Automotive	49-2096
Electricians, Locomotive	49-2093
Electricians, Master	47-2111
Electricians, Powerhouse	49-2095
Electricians, Solar Photovoltaic	47-2111
Electricians, Solar PV	47-2111
Electroencephalogram (EEG) Technologists	29-2099
Electromechanical Equipment Assemblers	51-2023
Electro-Mechanical Technicians	17-3024
Electron Beam Welder Setters	51-4122
Electroneurodiagnostic Technologists	29-2099
Electronic Design Automation Engineers	17-2072
Electronic Equipment Assemblers	51-2022
Electronic Equipment Installers and Repairers, Motor Vehicles	49-2096
Electronic Equipment Installers, Motor Vehicles	49-2096
Electronic Equipment Repairers, Motor Vehicles	49-2096
Electronic Gaming Device Supervisors	39-1012
Electronic Home Entertainment Equipment Installers	49-2097
Electronic Home Entertainment Equipment Installers and Repairers	49-2097
Electronic Home Entertainment Equipment Repairers	49-2097
Electronic Musical Instrument Repairers	49-2097
Electronic Parts Salespersons	41-2022
Electronic Publishers	43-9031
Electronic Semiconductor Processors	51-9141
Electronic Warfare Specialists	55-3019
Electronics Drafters	17-3012
Electronics Engineering Technicians	17-3023
Electronics Engineers, Except Computer	17-2072
Electronics Installers, Transportation Equipment	49-2093
Electronics Repairers, Commercial and Industrial Equipment	49-2094
Electronics Repairers, Powerhouse	49-2095
Electronics Repairers, Relay	49-2095
Electronics Repairers, Substation	49-2095
Electronics Repairers, Transportation Equipment	49-2093
Electrostatic Paint Operators	51-9121
Elementary School Band Directors	25-2021
Elementary School Education Administrators	11-9032
Elementary School Principals	11-9032
Elementary School Teachers, Except Special Education	25-2021
Elevator Inspectors	47-4011
Elevator Installers	47-4021
Elevator Installers and Repairers	47-4021
Elevator Mechanics	47-4021

Elevator Repairers	47-4021
Eligibility Interviewers, Government Programs	43-4061
Embalmers	39-4011
Embalmers, Licensed	39-4011
Embalmers, Restorative Art	39-4011
Embedded Systems Software Developers	15-1133
Embroidery Patternmakers	51-6092
Embryologists	19-1029
Emcees	27-3012
Emergency Management Directors	11-9161
Emergency Medical Services (EMS) Drivers	53-3011
Emergency Medical Technicians	29-2041
Emergency Medical Technicians and Paramedics	29-2041
Emergency Operators	43-5031
Emergency Preparedness Coordinators	11-9161
Employee Benefits Directors	11-3111
Employee Benefits Specialists	13-1141
Employee Development Directors	11-3131
Employee Relations Specialists	13-1075
EMTs	29-2041
Endodontists	29-1029
End-User Support Specialists	15-1151
Engine and Other Machine Assemblers	51-2031
Engine Assemblers	51-2031
Engine Designers	17-2141
Engine Lathe Operators	51-4034
Engineering Design Managers	11-9041
Engineering Managers	11-9041
Engineering Psychologists	19-3032
Engineering Teachers, Postsecondary	25-1032
Engineering Technicians, Except Drafters, All Other	17-3029
Engineers, Aeronautical	17-2011
Engineers, Aerospace	17-2011
Engineers, Agricultural	17-2021
Engineers, Agricultural Production	17-2021
Engineers, Agricultural Research	17-2021
Engineers, Aircraft Design	17-2011
Engineers, All Other	17-2199
Engineers, Architectural	17-2051
Engineers, Atomic Process	17-2161
Engineers, Audio	27-4012
Engineers, Audio Recording	27-4014
Engineers, Automotive Sheet Metal	17-2131
Engineers, Barge	53-5031
Engineers, Biomaterials	17-2031
Engineers, Bio-Mechanical	17-2031
Engineers, Biomedical	17-2031
Engineers, Boiler	51-8021
Engineers, Bridge	17-2051
Engineers, Broadcast	27-4012
Engineers, Ceramic	17-2131
Engineers, Chemical	17-2041
Engineers, Circuit Design	17-2072
Engineers, Civil	17-2051
Engineers, Combustion	17-2141
Engineers, Computer Applications	15-1132
Engineers, Computer Hardware	17-2061
Engineers, Computer Network	15-1143
Engineers, Construction	17-2051
Engineers, Dialysis	17-2031

Engineers, Efficiency	17-2112
Engineers, Electrical	17-2071
Engineers, Electrical Systems	17-2071
Engineers, Electrical, Except Computer	17-2072
Engineers, Electronic Design Automation	17-2072
Engineers, Environmental	17-2081
Engineers, Environmental Remediation	17-2081
Engineers, Farm Equipment	17-2021
Engineers, Ferry	53-5031
Engineers, Fire Protection	17-2111
Engineers, Flight Test	17-2011
Engineers, Forensic Materials	17-2131
Engineers, Fuels	17-2041
Engineers, Geological, Including Mining Safety Engineers	17-2151
Engineers, Geophysical	17-2151
Engineers, Geo-Technical	17-2051
Engineers, Health, Except Mining Safety Engineers and Inspectors	17-2111
Engineers, Heating and Cooling Systems	17-2141
Engineers, Highway	17-2051
Engineers, Illuminating	17-2071
Engineers, Industrial	17-2112
Engineers, Industrial Product Safety	17-2111
Engineers, Industrial Safety	17-2111
Engineers, Locomotive	53-4011
Engineers, Manufacturing	17-2112
Engineers, Marine	17-2121
Engineers, Materials	17-2131
Engineers, Mechanical	17-2141
Engineers, Metallurgical	17-2131
Engineers, Mineral	17-2151
Engineers, Mining, Including Mining Safety Engineers	17-2151
Engineers, Missile Navigation Systems Sales	41-9031
Engineers, Natural Gas	17-2171
Engineers, Naval	17-2121
Engineers, Nuclear	17-2161
Engineers, Nuclear Equipment Sales	41-9031
Engineers, Nuclear Radiation	17-2161
Engineers, Ocean	17-2051
Engineers, Oil Drilling	17-2171
Engineers, Oil Exploration	17-2171
Engineers, Operating	47-2073
Engineers, Optical	17-2199
Engineers, Ordnance	17-2199
Engineers, Packaging	17-2112
Engineers, Petroleum	17-2171
Engineers, Photonics	17-2199
Engineers, Plastics	17-2041
Engineers, Pollution Control	17-2081
Engineers, Polymerization	17-2041
Engineers, Power Distribution	17-2071
Engineers, Product Safety	17-2111
Engineers, Production	17-2112
Engineers, Radiation	17-2161
Engineers, Rail Yard	53-4013
Engineers, Railroad	53-4011
Engineers, Reactor	17-2161
Engineers, Safety, Except Mining Safety Engineers and Inspectors	17-2111
Engineers, Sales	41-9031
Engineers, Salvage	17-2199
Engineers, Seismic	17-2151

Engineers, Ship	53-5031
Engineers, Software Applications	15-1132
Engineers, Software Systems	15-1133
Engineers, Soil	17-2081
Engineers, Stationary	51-8021
Engineers, Structural	17-2051
Engineers, Telecommunication	17-2072
Engineers, Tool and Die	17-2141
Engineers, Traffic	17-2051
Engineers, Train	53-4011
Engineers, Tugboat	53-5031
Engineers, Water Treatment Plant	17-2081
Engineers, Welding	17-2131
English Language and Literature Teachers, Postsecondary	25-1123
English Language Teachers, Postsecondary	25-1123
English Literature Teachers, Postsecondary	25-1123
Engravers	51-9194
Engravers, Metal	51-9194
Engravers, Pantograph	51-9194
Enologists	19-1012
Enroute Controllers	53-2021
Entertainers and Performers, All Other	27-2099
Entertainers and Performers, Sports and Related Workers, All Other	27-2099
Entertainment Attendants and Related Workers, All Other	39-3099
Entertainment Attendants, All Other	39-3099
Entertainment Related Workers, All Other	39-3099
Envelope Stuffers	43-9199
Environmental Compliance Inspectors	13-1041
Environmental Economists	19-3011
Environmental Engineering Technicians	17-3025
Environmental Engineers	17-2081
Environmental Health Sanitarians	29-9011
Environmental Law Professors	25-1112
Environmental Protection Fire Control Officers	33-2022
Environmental Protection Foresters	19-1032
Environmental Protection Officers	29-9011
Environmental Protection Technicians, Including Health	19-4091
Environmental Remediation Engineering Technicians	17-3025
Environmental Remediation Engineers	17-2081
Environmental Science and Protection Technicians, Including Health	19-4091
Environmental Science Teachers, Postsecondary	25-1053
Environmental Science Technicians, Including Health	19-4091
Environmental Science, Management, and Policy Professors	25-1053
Environmental Scientists and Specialists, Including Health	19-2041
Environmental Scientists, Including Health	19-2041
Environmental Specialists, Including Health	19-2041
Environmental Studies Professors	25-1053
Environmentalists, Health	19-2041
Epidemiologists	19-1041
Epidemiology Investigators	19-1041
Equal Employment Opportunity Officers	13-1041
Equipment, Cleaners	53-7061
Equipment, Supplies, and Tools Purchasing Agents	13-1023
Erectors, Fence	47-4031
Erectors, Machine	49-9044
Erectors, Wind Turbine	47-2221
Ergonomics Technicians	29-9012
Escalator Installers	47-4021
Escorts, Blind	39-9021
Escorts, Tour	39-7011

Escrow Officers	23-2093
Estate Planners	13-2052
Estheticians, Medical	39-5094
Estimators, Construction Job Cost	13-1051
Estimators, Cost	13-1051
Estimators, Crating and Moving	13-1051
Estimators, Production Cost	13-1051
Estimators, Timber	45-4023
Etcher-Circuit Processors	51-9194
Etchers	51-9194
Etchers and Engravers	51-9194
Etchers, Glass	51-9194
Etchers, Silk Screen	51-9194
Ethnic Studies Teachers, Postsecondary	25-1062
Ethnoarchaeologists	19-3091
Ethnoarchaeology Professors	25-1061
Ethnographic Materials Conservators	25-4013
Ethnologists	19-3099
Ethnology Professors	25-1062
Etymology Professors	25-1123
Evaluators, Special Project Airborne Electronics	55-1011
Event Planners	13-1121
Eviscerators, Poultry	51-3022
Examiners, Appeals	23-1021
Examiners, Bank	13-2061
Examiners, Budget	13-2031
Examiners, Cattle	45-2011
Examiners, Claims	13-1031
Examiners, Driver's License	13-1041
Examiners, Electric Powerline	49-9051
Examiners, Financial	13-2061
Examiners, Financial Compliance	13-2061
Examiners, General Educational Development (GED)	25-9099
Examiners, Polygraph	19-4099
Examiners, Property and Casualty Insurance Claims	13-1031
Examiners, Tax	13-2081
Examiners, Title	23-2093
Excavating and Loading Machine and Dragline Operators	53-7032
Excavating Machine Operators	53-7032
Executive Administrative Assistants	43-6011
Executive Assistants	43-6011
Executive Chefs	35-1011
Executive Secretaries	43-6011
Executive Secretaries and Executive Administrative Assistants	43-6011
Executives, Advertising	11-2011
Executives, Chief	11-1011
Executors of Estate	13-2099
Exercise Physiologists	29-1128
Exhibit Designers	27-1027
Expediting Clerks	43-5061
Expeditionary Airfield Systems Technicians	55-3012
Expeditors	43-5061
Experts, Ballistics	19-4092
Experts, Ordnance Handling	47-5031
Explosive Technicians	47-5031
Explosives Workers	47-5031
Explosives Workers, Ordnance Handling Experts, and Blasters	47-5031
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Extension Service Advisors	25-9021
Exterminators	37-2021

Exterminators, Rodent	37-2021
Extraction Workers, All Other	47-5099
Extraction Workers, First-Line Supervisors	47-1011
Extraction Workers, Helpers	47-5081
Extruders, Synthetic Filament	51-6091
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4021
Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	51-6091
Extruding Machine Operators	51-9041
Extruding Machine Operators, Metal and Plastic	51-4021
Extruding Machine Operators, Synthetic and Glass Fibers	51-6091
Extruding Machine Setters	51-9041
Extruding Machine Setters, Metal and Plastic	51-4021
Extruding Machine Setters, Synthetic and Glass Fibers	51-6091
Extruding Machine Tenders	51-9041
Extruding Machine Tenders, Metal and Plastic	51-4021
Extruding Machine Tenders, Synthetic and Glass Fibers	51-6091
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	51-9041
Eyeglass Fitters	29-2081
Eyeglass Makers	51-9083
Fabric and Apparel Patternmakers	51-6092
Fabric Awning Repairers	49-9093
Fabric Menders, Except Garment	49-9093
Fabric Pattern Graders	51-6092
Fabric Patternmakers	51-6092
Fabricators, All Other	51-2099
Fabricators, Box	51-9196
Fabricators, Fiberglass	51-2091
Fabricators, Structural Metal	51-2041
Fabricators, Wafer	51-9141
Facers, Jewel Bearing	51-4033
Facialists	39-5094
Facilities Managers	11-3011
Falafel Cart Cooks	35-2019
Fallers	45-4021
Family and Consumer Sciences Professors	25-1192
Family and General Practitioners	29-1062
Family Dentists	29-1021
Family Practice Nurse Practitioners	29-1171
Family Practice Physician Assistants	29-1071
Family Practice Physicians	29-1062
Family Practitioners	29-1062
Family Resource Management Specialists	25-9021
Family Service Assistants	21-1093
Family Service Center Directors	11-9151
Family Social Workers	21-1021
Family Sociologists	19-3041
Family Therapists	21-1013
Family Welfare Social Work Professors	25-1113
Fan Mail Editors	43-4021
Farm and Home Management Advisors	25-9021
Farm Equipment Engineers	17-2021
Farm Equipment Mechanics	49-3041
Farm Equipment Mechanics and Service Technicians	49-3041
Farm Equipment Service Technicians	49-3041
Farm Labor Contractors	13-1074
Farm Management Advisors	25-9021
Farm Management Professors	25-1041
Farm Products, Buyers	13-1021
Farm Products, Purchasing Agents	13-1021
Farm, Ranch, and Aquacultural Animals Farmworkers	45-2093

Farmers	11-9013
Farmers, Ranchers, and Other Agricultural Managers	11-9013
Farming Workers, First-Line Supervisors	45-1011
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	45-2092
Farmworkers, Aquacultural Animals	45-2093
Farmworkers, Crop, Nursery, and Greenhouse	45-2092
Farmworkers, Farm, Ranch, and Aquacultural Animals	45-2093
Farmworkers, Ranch Animals	45-2093
Fashion Designers	27-1022
Fashion Models	41-9012
Fast Food Cooks	35-2011
Fast Food Fry Cooks	35-2011
Fax Machine Operators	43-2099
Feed Management Advisors	25-9021
Feed Research Technicians	19-4011
Feeders, Machine	53-7063
Fellows, Teaching	25-1191
Feltmakers	51-6099
Fence Erectors	47-4031
Fermentation Operators	51-9012
Ferry Engineers	53-5031
Fiber Machine Tenders	51-6091
Fiber Optic Central Office Installers	49-2022
Fiberglass Boat Builders	51-2091
Fiberglass Fabricators	51-2091
Fiberglass Laminators	51-2091
Fiberglass Laminators and Fabricators	51-2091
Fiberglass Ski Makers	51-2091
Field Artillery Fire Control Men	55-3014
Field Artillery Radar Operators	55-3017
Field Artillery Senior Sergeants	55-2012
Field Auditors	13-2011
Field Map Technicians	17-3031
File Clerks	43-4071
Filers, Tool	51-4194
Fillers, Hopper	53-7063
Fillers, Keg	51-9111
Fillers, Order	43-5081
Fillers, Vending Machine	49-9091
Filleters, Fish	51-3022
Filling Machine Operators	51-9111
Filling Machine Tenders	51-9111
Film and Video Editors	27-4032
Film Archivists	25-4011
Film Critics	27-3022
Film Editors	27-4032
Film Makers, Independent	27-2012
Film Projector Operators	39-3021
Filtering Machine Operators	51-9012
Filtering Machine Setters	51-9012
Filtering Machine Tenders	51-9012
Finance Professors	25-1011
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Financial Assistance Advisors	13-2071
Financial Clerks, All Other	43-3099
Financial Compliance Examiners	13-2061
Financial Directors	11-3031
Financial Examiners	13-2061
Financial Managers	11-3031
Financial Reserve Clerks	43-3099

Financial Services Sales Agents	41-3031
Financial Specialists, All Other	13-2099
Fine Artists, Including Painters, Sculptors, and Illustrators	27-1013
Fingernail Sculptors	39-5092
Fingerprint Clerks	43-9199
Finishers, Coil	51-2021
Finishers, Concrete	47-2051
Finishers, Drywall	47-2081
Finishers, Floor	47-2043
Finishers, Furniture	51-7021
Finishers, Hardwood	47-2043
Finishers, Metal Die	51-4111
Finishers, Pastry	51-3011
Finishers, Terrazzo	47-2053
Finishers, Wood Cabinet	51-7021
FIOS Line Installers	49-9052
Fire Alarm Installers	49-2098
Fire Alarm Systems Installers	49-2098
Fire Claims Adjusters	13-1031
Fire Control Men, Field Artillery	55-3014
Fire Dispatchers	43-5031
Fire Engine Pump Operators	33-2011
Fire Extinguisher Installers	49-9099
Fire Hazard Inspectors	33-2021
Fire Inspectors	33-2021
Fire Inspectors and Investigators	33-2021
Fire Investigators	33-2021
Fire Lieutenants	33-1021
Fire Prevention Inspectors	33-2021
Fire Prevention Workers, First-Line Supervisors	33-1021
Fire Protection Engineers	17-2111
Fire Sprinkler Installers	47-2152
Firefighters	33-2011
Firefighters, Forest	33-2011
Firefighters, Marine	33-2011
Fire-Fighting Workers, First-Line Supervisors	33-1021
Firers, Diesel Locomotive	53-4012
Firers, Dinkey Engine	53-4012
Firers, Locomotive	53-4012
Firers, Railroad	53-4012
First Mates	53-5021
First-Line Supervisors of Air Crew Members	55-2011
First-Line Supervisors of All Other Tactical Operations Specialists	55-2013
First-Line Supervisors of Construction Trades and Extraction Workers	47-1011
First-Line Supervisors of Construction Trades Workers	47-1011
First-Line Supervisors of Correctional Officers	33-1011
First-Line Supervisors of Extraction Workers	47-1011
First-Line Supervisors of Farming Workers	45-1011
First-Line Supervisors of Farming, Fishing, and Forestry Workers	45-1011
First-Line Supervisors of Fire Fighting and Prevention Workers	33-1021
First-Line Supervisors of Fishing Workers	45-1011
First-Line Supervisors of Food Preparation and Serving Workers	35-1012
First-Line Supervisors of Food Preparation Workers	35-1012
First-Line Supervisors of Food Serving Workers	35-1012
First-Line Supervisors of Forestry Workers	45-1011
First-Line Supervisors of Groundskeeping Workers	37-1012
First-Line Supervisors of Helpers, Hand	53-1021
First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	53-1021
First-Line Supervisors of Housekeeping and Janitorial Workers	37-1011
First-Line Supervisors of Housekeeping Workers	37-1011

First-Line Supervisors of Installers	49-1011
First-Line Supervisors of Janitorial Workers	37-1011
First-Line Supervisors of Laborers, Hand	53-1021
First-Line Supervisors of Landscaping Workers	37-1012
First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	37-1012
First-Line Supervisors of Lawn Service Workers	37-1012
First-Line Supervisors of Material Movers, Hand	53-1021
First-Line Supervisors of Material-Moving Machine Operators	53-1031
First-Line Supervisors of Material-Moving Vehicle Operators	53-1031
First-Line Supervisors of Mechanics	49-1011
First-Line Supervisors of Mechanics, Installers, and Repairers	49-1011
First-Line Supervisors of Non-Retail Sales Workers	41-1012
First-Line Supervisors of Office and Administrative Support Workers	43-1011
First-Line Supervisors of Operating Workers	51-1011
First-Line Supervisors of Personal Service Workers	39-1021
First-Line Supervisors of Police and Detectives	33-1012
First-Line Supervisors of Production and Operating Workers	51-1011
First-Line Supervisors of Production Workers	51-1011
First-Line Supervisors of Protective Service Workers, All Other	33-1099
First-Line Supervisors of Repairers	49-1011
First-Line Supervisors of Retail Sales Workers	41-1011
First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	53-1031
First-Line Supervisors of Transportation Machine Operators	53-1031
First-Line Supervisors of Transportation Vehicle Operators	53-1031
First-Line Supervisors of Weapons Specialists/Crew Members	55-2012
Fish and Game Wardens	33-3031
Fish Cutters	51-3022
Fish Filleters	51-3022
Fish Hatchery Managers	11-9013
Fish Hatchery Supervisors	45-1011
Fish Smokers	51-3091
Fish Trimmers	51-3022
Fish Wardens	33-3031
Fishers	45-3011
Fishers and Related Fishing Workers	45-3011
Fishing Workers, First-Line Supervisors	45-1011
Fishing-Tool Technicians	47-5013
Fitness Studies Teachers, Postsecondary	25-1193
Fitness Trainers	39-9031
Fitness Trainers and Aerobics Instructors	39-9031
Fitters, Artificial Limb	29-2091
Fitters, Certified Orthotic	29-2091
Fitters, Contact Lens	29-2081
Fitters, Eyeglass	29-2081
Fitters, Hearing Aid	29-2092
Fitters, Mill Beam	51-2041
Fitters, Sprinkler	47-2152
Fitters, Structural Metal	51-2041
Fixers, Tire	49-3093
Flat Sorting Machine Clerks	43-5053
Fleet Maintenance Supervisors	49-1011
Flight Attendants	53-2031
Flight Data Technicians	17-3021
Flight Deck Officers	55-1012
Flight Engineers, Airline	53-2011
Flight Instructors (Airline Pilots)	53-2011
Flight Instructors (Commercial Pilots)	53-2012
Flight Operations Coordinators	53-2022
Flight Paramedics	29-2041
Flight Test Engineers	17-2011

Flight Test Mechanics	49-3011
Floor Finishers	47-2043
Floor Layers, Except Carpet, Wood, and Hard Tiles	47-2042
Floor Sanders	47-2043
Floor Sanders and Finishers	47-2043
Floor Sanding Machine Operators	47-2043
Floor Scrapers	47-2043
Floral Designers	27-1023
Florists	27-1023
Flower Arrangers	27-1023
Fluid Dynamicists	19-2012
Fluid Pump Operators	53-7072
Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	51-3091
Food Baking Machine Operators	51-3091
Food Baking Machine Tenders	51-3091
Food Batchmakers	51-3092
Food Chemists	19-2031
Food Concession Counter Attendants	35-3022
Food Cooking Machine Operators	51-3093
Food Cooking Machine Operators and Tenders	51-3093
Food Cooking Machine Tenders	51-3093
Food Drying Machine Operators	51-3091
Food Drying Machine Tenders	51-3091
Food Preparation and Serving Related Workers, All Other	35-9099
Food Preparation and Serving Workers, Combination	35-3021
Food Preparation Workers	35-2021
Food Preparation Workers, All Other	35-9099
Food Preparation Workers, First-Line Supervisors	35-1012
Food Processing Workers, All Other	51-3099
Food Roasting Machine Operators	51-3091
Food Roasting Machine Tenders	51-3091
Food Safety Scientists	19-1012
Food Science Technicians	19-4011
Food Scientists	19-1012
Food Scientists and Technologists	19-1012
Food Servers, Nonrestaurant	35-3041
Food Service Directors	11-9051
Food Service Managers	11-9051
Food Serving Related Workers, All Other	35-9099
Food Serving Workers, First-Line Supervisors	35-1012
Food Technologists	19-1012
Foot Doctors	29-1081
Foot Orthopedists	29-1081
Football Coaches	27-2022
Football Players	27-2021
Forecasters, Marketing	13-1161
Foreign Correspondents	27-3022
Foreign Exchange Clerks	43-3071
Foreign Exchange Traders	13-2099
Foreign Language and Literature Teachers, Postsecondary	25-1124
Foreign Language Teachers, Postsecondary	25-1124
Foreign Literature Teachers, Postsecondary	25-1124
Forensic Materials Engineers	17-2131
Forensic Psychologists	19-3039
Forensic Science Technicians	19-4092
Forensic Social Workers	21-1029
Forest and Conservation Technicians	19-4093
Forest and Conservation Workers	45-4011
Forest Ecologists	19-1032
Forest Ecology Professors	25-1043

Forest Fire Control Officers	33-2022
Forest Fire Inspectors	33-2022
Forest Fire Inspectors and Prevention Specialists	33-2022
Forest Fire Prevention Specialists	33-2022
Forest Firefighters	33-2011
Forest Technicians	19-4093
Forest Workers	45-4011
Forester Aides	45-4011
Foresters	19-1032
Foresters, Environmental Protection	19-1032
Forestry Aides	19-4093
Forestry and Conservation Science Teachers, Postsecondary	25-1043
Forestry Laborers	45-4011
Forestry Science Teachers, Postsecondary	25-1043
Forestry Workers, First-Line Supervisors	45-1011
Forging Machine Operators, Metal and Plastic	51-4022
Forging Machine Setters, Metal and Plastic	51-4022
Forging Machine Setters, Operators, and Tenders, Metal and Plastic	51-4022
Forging Machine Tenders, Metal and Plastic	51-4022
Forging Roll Operators	51-4022
Forklift Mechanics	49-3042
Forklift Operators	53-7051
Form Tampers	47-2071
Formers, Sheet Metal	47-2211
Forming Machine Operators	51-9041
Forming Machine Operators, Synthetic and Glass Fibers	51-6091
Forming Machine Setters	51-9041
Forming Machine Setters, Synthetic and Glass Fibers	51-6091
Forming Machine Tenders	51-9041
Forming Machine Tenders, Synthetic and Glass Fibers	51-6091
Forming Roll Operators	51-4023
Foster Care Workers	21-1021
Foundry Equipment Mechanics	49-9041
Foundry Mold and Coremakers	51-4071
Foundry Mold Makers	51-4071
Framers, Aircraft Fuselage	51-2011
Framers, Pole	51-7099
Fraternity House Cooks	35-2019
Freezing Equipment Operators	51-9193
Freezing Equipment Tenders	51-9193
Freight Agents	43-5011
Freight Conductors	53-4031
Freight Elevator Operators	53-7199
Freight Inspectors	53-6051
Freight Movers, Hand	53-7062
Freight Shipping Agents	43-5011
Friers, Potato Chip	51-3093
Front Desk Receptionists	43-4171
Frozen Yogurt Makers	51-3092
Fruit and Vegetable Parers	35-2021
Fruit Buyers	13-1021
Fruit Sorters	45-2041
Fruit Sprayers	37-3012
Fuels Engineers	17-2041
Fumigators	37-2021
Fundraisers	13-1131
Fundraisers, Campaign	13-1131
Fundraising Directors	11-2031
Fundraising Managers	11-2031
Fundraising Officers	13-1131

Funeral Arrangers	39-4031
Funeral Attendants	39-4021
Funeral Directors	39-4031
Funeral Home Assistants	39-4021
Funeral Home Directors	11-9061
Funeral Home Managers	11-9061
Funeral Service Managers	11-9061
Fur Trimmers	51-9031
Furnace Operators	51-9051
Furnace Tenders	51-9051
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	51-9051
Furnishings Workers, All Other	51-6099
Furniture Finishers	51-7021
Furniture Sanders	51-7021
Furniture Upholsterers	51-6093
Furriers, Custom	27-1022
Galley Cooks	35-2012
Galvanizers	51-4193
Gambling Monitors	33-9031
Game Show Hosts	27-3011
Game Wardens	33-3031
Gaming and Sports Book Writers and Runners	39-3012
Gaming Book Runners	39-3012
Gaming Book Writers	39-3012
Gaming Cage Workers	43-3041
Gaming Change Persons	41-2012
Gaming Change Persons and Booth Cashiers	41-2012
Gaming Dealers	39-3011
Gaming Investigators	33-9031
Gaming Managers	11-9071
Gaming Service Workers, All Other	39-3019
Gaming Supervisors	39-1011
Gaming Surveillance Officers	33-9031
Gaming Surveillance Officers and Gaming Investigators	33-9031
Garage Door Mechanics	49-9011
Garbage Collectors	53-7081
Garment Pressers	51-6021
Gas and Oil Servicers	53-6031
Gas Compressor and Gas Pumping Station Operators	53-7071
Gas Compressor Operators	53-7071
Gas Controllers	51-8092
Gas Cylinder Processors	53-7071
Gas Derrick Operators	47-5011
Gas Furnace Installers	49-9021
Gas Meter Installers	49-9012
Gas Meter Readers	43-5041
Gas Plant Dispatchers	51-8092
Gas Plant Operators	51-8092
Gas Pump Attendants	53-6031
Gas Pumping Station Operators	53-7071
Gas Rotary Drill Operators	47-5012
Gas Roustabouts	47-5051
Gas Service Unit Operators	47-5013
Gas Station Supervisors	53-1031
Gas Turbine Assemblers	51-2031
Gasoline Pump Installers	49-9099
Gastroenterologists	29-1069
Gate Agents	43-4181
Gatherers, Pecan	45-2092
Gaugers	51-8093

Gear Cutters	51-4034
Gear Machinists	51-4041
Gem Cutters	51-9071
Gemologists	51-9071
Genealogists	19-3093
General and Operations Managers	11-1021
General Contractors	11-9021
General Dentists	29-1021
General Educational Development (GED) Examiners	25-9099
General Educational Development (GED) Teachers	25-3011
General Internists	29-1063
General Maintenance Workers	49-9071
General Managers	11-1021
General Office Clerks	43-9061
General Pediatricians	29-1065
General Practitioners	29-1062
General Repair Workers	49-9071
General Superintendents	11-1021
Generalists, Human Resources	13-1071
Genetic Counselors	29-9092
Geochemists	19-2042
Geodesists	19-2042
Geodetic Surveyors	17-1022
Geographers	19-3092
Geographers, Economic	19-3092
Geographers, GIS	19-3092
Geographers, Political	19-3092
Geography Teachers, Postsecondary	25-1064
Geological and Petroleum Technicians	19-4041
Geological Drafters	17-3019
Geological Engineers, Including Mining Safety Engineers	17-2151
Geological Technicians	19-4041
Geology Professors	25-1051
Geomatics Professors	25-1064
Geomorphologists	19-3092
Geophysical Engineers	17-2151
Geophysical Managers	11-9121
Geophysical Prospectors	19-4041
Geoscientists, Except Hydrologists and Geographers	19-2042
Geotechnical Engineering Technicians	17-3022
Geo-Technical Engineers	17-2051
Geriatric Personal Care Aides	39-9021
Geriatric Physical Therapists	29-1123
Geriatric Psychiatrists	29-1066
Geriatric Social Work Professors	25-1113
Gerontological Nurse Practitioners	29-1171
Geropsychologists	19-3031
Gift Wrappers	53-7064
GIS Geographers	19-3092
GIS Mapping Technicians	17-3031
GIS Professors	25-1064
Glass Blowers	51-9195
Glass Cutting Machine Operators	51-9032
Glass Etchers	51-9194
Glass Fibers Extruding and Forming Machine Setters, Operators, and Tenders	51-6091
Glass Scientists	19-2032
Glaziers	47-2121
Glaziers, Automotive	49-3022
Global Engineering Managers	11-9041
Glue Line Operators	51-9191

Glue Reel Operators	51-9191
Gold Buyers	13-1022
Goldsmiths	51-9071
Golf Caddies	39-3091
Golf Cart Mechanics	49-3053
Golf Course Architects	17-1012
Golf Course Designers	17-1012
Government Affairs Specialists	19-3094
Government Professors	25-1065
Governors	11-1011
GPS Car Navigation Installers	49-2096
Graders and Sorters, Agricultural Products	45-2041
Graders, Agricultural Products	45-2041
Graders, Cotton	45-2041
Graders, Egg	45-2041
Graders, Fabric Pattern	51-6092
Graders, Log	45-4023
Graders, Meat	45-2041
Graders, Road	47-2071
Graders, Scholastic Aptitude Test (SAT)	25-9099
Graders, Veneer	45-4023
Graduate Student Instructors	25-1191
Graduate Teaching Assistants	25-1191
Grain Brokers	13-1021
Grain Buyers	13-1021
Grain Elevator Operators	53-7011
Grain Market Operators	13-1021
Grain Samplers	45-2011
Granite Setters	47-2022
Graphic Artists	27-1024
Graphic Designers	27-1024
Grapple Skidder Operators	45-4022
Grassland Conservationists	19-1031
Gravure Press Operators	51-5112
Green Sand Molders	51-4071
Greenhouse Transplanters	45-2092
Greenskeepers	37-3011
Greenskeepers, Head	37-1012
Griddle Cooks	35-2015
Grief Counselors	21-1019
Grinders, Industrial Coffee	51-9021
Grinders, Knife	51-9022
Grinders, Lens	51-9083
Grinders, Metal	51-4033
Grinders, Precision Lens	51-9083
Grinders, Terrazzo	47-2053
Grinders, Tool	51-4194
Grinding and Polishing Workers, Hand	51-9022
Grinding Machine Operators	51-9021
Grinding Machine Setters	51-9021
Grinding Machine Tenders	51-9021
Grinding Machine Tool Operators, Metal and Plastic	51-4033
Grinding Machine Tool Setters, Metal and Plastic	51-4033
Grinding Machine Tool Tenders, Metal and Plastic	51-4033
Grinding Workers, Hand	51-9022
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Me	51-4033
Grocery Checkers	41-2011
Grocery Store Baggers	53-7064
Groomers, Dog	39-2021
Ground Operations Specialists	55-3016

Grounds Maintenance Supervisors	37-1012
Grounds Maintenance Workers, All Other	37-3019
Groundskeeping Workers	37-3011
Groundskeeping Workers, First-Line Supervisors	37-1012
Groundwater Monitoring Technicians	19-4091
Guards, Bank	33-9032
Guards, Construction Site Crossing	33-9091
Guards, Crossing	33-9091
Guards, Prison	33-3012
Guards, School Traffic	33-9091
Guards, Security	33-9032
Guidance Counselors	21-1012
Guide Dog Trainers	39-2011
Guides, Historical Site	39-7011
Guides, Museum	39-7011
Guides, River Expedition	39-7012
Guides, Sightseeing	39-7011
Guides, Tour	39-7011
Guides, Travel	39-7012
Gunner's Mates	55-3014
Gunners, Machine	55-3016
Gunsmiths	49-9099
Gynecologists	29-1064
Gyroscope Engineering Technicians	17-3027
Gyroscope Repairers	49-9069
Hairdressers	39-5012
Hairdressers, Hairstylists, and Cosmetologists	39-5012
Hairstylists	39-5012
Halal Meat Packers	51-3023
Hand Buffers	51-9022
Hand Cloth Cutters	51-9031
Hand Cutters	51-9031
Hand Freight Movers	53-7062
Hand Laborers	53-7062
Hand Material Movers	53-7062
Hand Models	41-9012
Hand Packagers	53-7064
Hand Packers	53-7064
Hand Potters	27-1012
Hand Quilters	51-6051
Hand Sanders	51-9022
Hand Sewers	51-6051
Hand Stitchers	51-6051
Hand Stock Movers	53-7062
Hand Trimmers	51-9031
Handlers, Cargo	53-7062
Handlers, Hotel Baggage	39-6011
Handlers, Irradiated Fuel	47-4041
Handlers, Pesticide, Vegetation	37-3012
Hands, Timber	45-4029
Hangers, Poultry	51-3099
Hangers, Sheet Rock	47-2081
Harbor Pilots	53-5021
Hard Tile Setters	47-2044
Hardwood Finishers	47-2043
Hardwood Floor Installation Helpers	47-3012
Harmonic Analysts	15-2099
Harvesters, Seaweed	45-3011
Harvesters, Wild Oyster	45-3011
Harvesting Contractors	13-1074

Hat Blocking Machine Operators	51-6099
Haulers, Log	45-4022
Hay Balers	45-2091
Hazardous Materials Removal Workers	47-4041
Hazardous Substances Scientists	19-2041
Head Cooks	35-1011
Head Greenskeepers	37-1012
Head Start Directors	11-9031
Head Start Teachers	25-2011
Health Actuaries	15-2011
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	17-2111
Health and Safety Inspectors	29-9011
Healthcare Practitioners, All Other	29-9099
Health Diagnosing and Treating Practitioners, All Other	29-1199
Health Diagnosing Practitioners, All Other	29-1199
Health Educators	21-1091
Health Engineers, Except Mining Safety Engineers and Inspectors	17-2111
Health Environmentalists	19-2041
Health Information Coders	29-2071
Health Information Systems Technicians	29-2071
Health Information Technicians	29-2071
Health Insurance Adjusters	13-1031
Health Services Managers	11-9111
Health Social Work Professors	25-1113
Health Specialties Teachers, Postsecondary	25-1071
Health Technicians, All Other	29-2099
Health Technologists and Technicians, All Other	29-2099
Health Technologists, All Other	29-2099
Health Treating Practitioners, All Other	29-1199
Healthcare Practitioners and Technical Workers, All Other	29-9099
Healthcare Social Workers	21-1022
Healthcare Support Workers, All Other	31-9099
Healthcare Technical Workers, All Other	29-9099
Hearing Aid Fitters	29-2092
Hearing Aid Specialists	29-2092
Hearing Aid Technicians	29-2092
Hearing Instrument Specialists	29-2092
Hearing Officers, Administrative Law	23-1021
Hearse Drivers	53-3041
Heat Transfer Technicians	17-3027
Heat Treating Equipment Operators, Metal and Plastic	51-4191
Heat Treating Equipment Setters, Metal and Plastic	51-4191
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	51-4191
Heat Treating Equipment Tenders, Metal and Plastic	51-4191
Heating and Cooling Systems Engineers	17-2141
Heating Installers	49-9021
Heating Mechanics	49-9021
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	49-9021
Heating, Ventilation, and Air Conditioning (HVAC) Mechanic Boiler Operators	51-8021
Heating, Ventilation, and Air Conditioning (HVAC) Mechanics	49-9021
Heating, Ventilation, and Air Conditioning (HVAC) Sheet Metal Installers	47-2211
Heavy and Tractor-Trailer Truck Drivers	53-3032
Heavy Truck Drivers	53-3032
Hedge Trimmers	37-3011
Helicopter Engine Specialists	49-3011
Helicopter Pilots	53-2012
Help Desk Technicians	15-1151
Helpers, Automobile Body Repairer	49-9098
Helpers, Bartenders	35-9011
Helpers, Blaster	47-5081

Helpers, Blending Tank	51-9198
Helpers, Blockmasons	47-3011
Helpers, Brickmasons	47-3011
Helpers, Bridge Painter	47-3014
Helpers, Cellulose Insulation	47-3019
Helpers, Commercial Baker	51-9198
Helpers, Construction Trades, All Other	47-3019
Helpers, Dry Plasterer	47-3014
Helpers, Drywall Hanger	47-3019
Helpers, Hand, First-Line Supervisors	53-1021
Helpers, Hardwood Floor Installation	47-3012
Helpers, Hot Tar Roofer	47-3016
Helpers, Industrial Gas Fitter	47-3015
Helpers, Locksmith	49-9098
Helpers, Marine Electrician	47-3013
Helpers, Marine Pipefitter	47-3015
Helpers, Mining	47-5081
Helpers, Mortician	39-4021
Helpers, Motorboat Mechanic	49-9098
Helpers, Painters	47-3014
Helpers, Paperhangers	47-3014
Helpers, Pipefitters	47-3015
Helpers, Pipelayers	47-3015
Helpers, Plasterers	47-3014
Helpers, Plumbers	47-3015
Helpers, Refractory Tile	47-3011
Helpers, Rod Buster	47-3019
Helpers, Roof Bolter	47-5081
Helpers, Shingles Roofer	47-3016
Helpers, Slate Roofer	47-3016
Helpers, Stage Electrician	47-3013
Helpers, Steamfitters	47-3015
Helpers, Stonemasons	47-3011
Helpers, Stucco Masons	47-3014
Helpers, Terra Cotta Roofer	47-3016
Helpers, Terrazzo Finisher	47-3019
Helpers, Tile and Marble Setters	47-3011
Helpers, Tree Trimmer	37-3019
Helpers, Veterinarian	31-9096
Helpers, Wallpaperer	47-3014
Helpers, Water Main Installer	47-3015
Helpers, Welder	51-9198
Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	47-3011
Helpers--Carpenters	47-3012
Helpers--Electricians	47-3013
Helpers--Extraction Workers	47-5081
Helpers--Installation Workers	49-9098
Helpers--Installation, Maintenance, and Repair Workers	49-9098
Helpers--Maintenance Workers	49-9098
Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	47-3014
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	47-3015
Helpers--Production Workers	51-9198
Helpers--Repair Workers	49-9098
Helpers--Roofers	47-3016
Herbalists, Traditional Chinese	29-9099
Herbarium Curators	25-4012
Herpetologists	19-1023
High School Auto Repair Teachers	25-2032
High School English Teachers	25-2031
High School French Teachers	25-2031

High School History Teachers	25-2031
High School Learning Support Teachers	25-2054
High School Principals	11-9032
High School Special Education Teachers	25-2054
High School Vocational Education Teachers	25-2032
Highway Engineering Technicians	17-3022
Highway Engineers	17-2051
Highway Inspectors	47-4011
Highway Maintenance Workers	47-4051
Highway Traffic Control Technicians	53-6041
Histology Technicians	29-2012
Historian Research Assistants	19-4061
Historians	19-3093
Historical Records Administrators	25-4011
Historical Site Guides	39-7011
Historiographers	19-3093
History Teachers, Postsecondary	25-1125
Hoist and Winch Operators	53-7041
Hoist Operators	53-7041
Home Appliance Repairers	49-9031
Home Demonstrators	41-9011
Home Economics Teachers, Postsecondary	25-1192
Home Economists	25-9021
Home Health Aides	31-1011
Home Health Attendants	31-1011
Home Hospice Aides	31-1011
Home Lighting Advisers	27-1025
Home Management Advisors	25-9021
Home Mortgage Disclosure Act Specialists	13-2061
Home Security Alarm Installers	49-2098
Home Theater Installers	49-2097
Homeowner Association Managers	11-9141
Homicide Detectives	33-3021
Honey Blenders	51-3092
Hopper Fillers	53-7063
Horizontal Boring Machine Operators	47-5021
Horologists	49-9064
Horse Breakers	39-2011
Horse Breeders	45-2021
Horseback Riding Instructors	25-3021
Horticultural Services Supervisors	37-1012
Horticulturists	19-1013
Hospice Registered Nurses	29-1141
Hospice Social Workers	21-1022
Hospital Administrators	11-9111
Hospital Food Service Workers	35-3041
Hospital Orderlies	31-1015
Hospital Pharmacists	29-1051
Hostesses, Coffee Shop	35-9031
Hostesses, Lounge	35-9031
Hostesses, Restaurant	35-9031
Hostlers	53-4013
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	35-9031
Hosts, Coffee Shop	35-9031
Hosts, Dining Room	35-9031
Hosts, Game Show	27-3011
Hosts, Lounge	35-9031
Hosts, Restaurant	35-9031
Hosts, Talk Show	27-3011
Hot Tar Roofer Helpers	47-3016

Hot Tar Roofers	47-2181
Hotel Baggage Handlers	39-6011
Hotel Concierges	39-6012
Hotel Desk Clerks	43-4081
Hotel Front Desk Clerks	43-4081
Hotel Guest Service Agents	39-6012
Hotel Managers	11-9081
Hotel Registration Clerks	43-4081
Hotel Reservationists	43-4181
Hotel Supplies Salespersons	41-4012
Hotel, Motel, and Resort Desk Clerks	43-4081
House Cleaners	37-2012
House Painters	47-2141
House Parents	39-9041
House Sitters	39-9099
Housekeeping Cleaners	37-2012
Housekeeping Staffs	37-2012
Housekeeping Workers, First-Line Supervisors	37-1011
Housetrailer Servicers	49-9095
HR Clerks	43-4161
Human Resources Assistants, Except Payroll and Timekeeping	43-4161
Human Resources Generalists	13-1071
Human Resources Managers	11-3121
Human Resources Psychologists	19-3032
Human Resources Specialists	13-1071
Human Service Assistants	21-1093
Human Services Workers	21-1093
Humane Officers	33-9011
Hunters	45-3021
Hunters and Trappers	45-3021
Hunters, Deer	45-3021
Hurricane Trackers	19-2021
Hybrid Car Mechanics	49-3023
Hydraulic Elevator Constructors	47-4021
Hydraulic Pile Hammer Operators	47-2072
Hydrodynamics Professors	25-1054
Hydroelectric Machinery Mechanics	49-9041
Hydroelectric Plant Operators	51-8013
Hydrogeologists	19-2043
Hydrologists	19-2043
Hydrologists, Isotope	19-2043
Hydrologists, Surface	19-2043
Hydrotherapists	29-1129
Hydrotreater Operators	51-8093
Hygienists, Dental	29-2021
Hygienists, Industrial	29-9011
Hygienists, Oral	29-2021
Hygienists, Registered Dental	29-2021
Hypnotherapists	29-1199
Ice Cream Servers	35-3022
Ice Sculptors	27-1013
Ice-Resurfacing Machine Operators	53-3099
Ichthyologists	19-1023
Illuminating Engineers	17-2071
Illustrators, Catalogue	27-1024
Illustrators, Scientific	27-1013
Imams	21-2011
Immersion Metal Cleaners	51-9192
Immunochemists	19-1042
Immunohematologists	29-2011

Income Tax Advisors	13-2082
Income Tax Preparers	13-2082
Incoming Freight Clerks	43-5071
Independent Film Makers	27-2012
Individual Pension Advisers	13-2052
Individualized Education Plan (IEP) Aides	25-9099
Induction Machine Setters	51-4191
Industrial Analysts	13-1111
Industrial Chemists	19-2031
Industrial Coffee Grinders	51-9021
Industrial Designers	27-1021
Industrial Economists	19-3011
Industrial Engineering Teachers	25-1032
Industrial Engineering Technicians	17-3026
Industrial Engineers	17-2112
Industrial Equipment Electrical and Electronics Repairers	49-2094
Industrial Fabric Cutters	51-6062
Industrial Gas Fitter Helpers	47-3015
Industrial Hygienists	29-9011
Industrial Machinery Mechanics	49-9041
Industrial Plant Custodians	37-2011
Industrial Product Safety Engineers	17-2111
Industrial Production Managers	11-3051
Industrial Robotics Mechanics	49-2094
Industrial Safety Engineers	17-2111
Industrial Truck and Tractor Operators	53-7051
Industrial Truck Operators	53-7051
Industrial/Organizational Psychology Professors	25-1066
Industrial-Organizational Psychologists	19-3032
Industrials Tractor Operators	53-7051
Infantry	55-3016
Infantry Officers	55-1016
Infantry Unit Leaders	55-2012
Infantry Weapons Officers	55-1016
Infantrymen	55-3016
Infectious Waste Technicians	19-4091
In-Flight Refueling Craftsmen	55-3011
In-Flight Refueling Managers	55-2011
Information and Record Clerks, All Other	43-4199
Information Clerks	43-4171
Information Clerks, All Other	43-4199
Information Operators	43-2021
Information Research Scientists	15-1111
Information Security Analysts	15-1122
Information Systems Analysts	15-1121
Information Systems Managers	11-3021
Information Technology Professors	25-1021
Information Technology Systems Directors	11-3021
Ingot Casters	51-4052
Inhalation Therapists	29-1126
Ink Blenders	51-9023
Innkeepers	11-9081
Innkeepers, Bed and Breakfast	11-9081
Inorganic Chemical Technicians	19-4031
Inorganic Chemistry Professors	25-1052
Inorganic Chemists	19-2031
Inspectors	51-9061
Inspectors, Agricultural	45-2011
Inspectors, Aircraft	53-6051
Inspectors, Building	47-4011

Inspectors, Construction	47-4011
Inspectors, Electrical	47-4011
Inspectors, Elevator	47-4011
Inspectors, Environmental Compliance	13-1041
Inspectors, Fire	33-2021
Inspectors, Fire Hazard	33-2021
Inspectors, Fire Prevention	33-2021
Inspectors, Forest Fire	33-2022
Inspectors, Freight	53-6051
Inspectors, Health and Safety	29-9011
Inspectors, Highway	47-4011
Inspectors, Machined Parts Quality	51-9061
Inspectors, Motor Vehicle Emissions	53-6051
Inspectors, Rail	53-6051
Inspectors, Rail Transportation	53-6051
Inspectors, Railroad Car	53-6051
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061
Inspectors, Transportation	53-6051
Installation Workers, All Other	49-9099
Installation Workers, Helpers	49-9097
Installation, Maintenance, and Repair Workers, All Other	49-9099
Installers and Repairers, Private Branch Exchange (PBX)	49-2022
Installers, Acoustical Ceiling	47-2081
Installers, Air Conditioning	49-9021
Installers, Aircraft De-Icer	51-2011
Installers, Aluminum Pool	47-4099
Installers, Automotive Glass	49-3022
Installers, Boiler	47-2011
Installers, Burglar Alarm	49-2098
Installers, Cable Television	49-9052
Installers, Car Alarm	49-2096
Installers, Car Stereo	49-2096
Installers, Carpet	47-2041
Installers, Ceiling Tile	47-2081
Installers, Cellular Equipment	49-2021
Installers, Ceramic Tile	47-2044
Installers, Composition Weatherboard	47-2131
Installers, Concrete Floor	47-2051
Installers, Concrete Pavement	47-4091
Installers, Concrete Swimming Pool	47-2051
Installers, Control and Valve, Except Mechanical Door	49-9012
Installers, Cork Floor	47-2042
Installers, Drywall	47-2081
Installers, Electrical Power-Line	49-9051
Installers, Electrical, Transportation Equipment	49-2093
Installers, Electronic Equipment, Motor Vehicles	49-2096
Installers, Electronic Home Entertainment Equipment	49-2097
Installers, Electronics, Transportation Equipment	49-2093
Installers, Elevator	47-4021
Installers, Escalator	47-4021
Installers, Fiber Optic Central Office	49-2022
Installers, FIOS Line	49-9052
Installers, Fire Alarm	49-2098
Installers, Fire Alarm Systems	49-2098
Installers, Fire Extinguisher	49-9099
Installers, Fire Sprinkler	47-2152
Installers, First-Line Supervisors	49-1011
Installers, Gas Furnace	49-9021
Installers, Gas Meter	49-9012
Installers, Gasoline Pump	49-9099

Installers, GPS Car Navigation	49-2096
Installers, Heating	49-9021
Installers, Heating, Ventilation, and Air Conditioning (HVAC) Sheet Metal	47-2211
Installers, Home Security Alarm	49-2098
Installers, Home Theater	49-2097
Installers, Linoleum	47-2042
Installers, Manufactured Building	49-9095
Installers, Marble Ceiling	47-2044
Installers, Mobile Home	49-9095
Installers, Mortarless Segmental Concrete Masonry Wall Unit	37-3011
Installers, Paving Stone	47-4091
Installers, Plate Glass	47-2121
Installers, Radio Equipment	49-2021
Installers, Refrigeration	49-9021
Installers, Road Sign	47-4051
Installers, Safe and Vault	49-9094
Installers, Satellite Dish	49-2097
Installers, Security Systems	49-2098
Installers, Solar Photovoltaic	47-2231
Installers, Solar PV	47-2231
Installers, Solar Thermal	47-2152
Installers, Telecommunications Equipment, Except Line Installers	49-2022
Installers, Telecommunications Line	49-9052
Installers, Third Rail	49-9097
Installers, Tower Equipment	49-2021
Installers, Wall Covering	47-2142
Installers, Wall-to-Wall Carpet	47-2041
Installers, Washing Machine	49-9031
Installers, Window Air Conditioner	49-9031
Installers, Windshield	49-3022
Installers, Wireless Internet	49-2097
Installers, Wood Fence	47-4031
Institution Cooks	35-2012
Institutional Commodity Analysts	13-2051
In-Store Demonstrators	41-9011
Instructional Aides	25-9041
Instructional Coordinators	25-9031
Instructional Material Directors	25-9031
Instructors, Adult Basic and Secondary Education	25-3011
Instructors, Adult Literacy	25-3011
Instructors, Aerobics	39-9031
Instructors, All Other	25-3099
Instructors, Barbering	25-1194
Instructors, Flight (Airline Pilots)	53-2011
Instructors, Flight (Commercial Pilots)	53-2012
Instructors, Graduate Student	25-1191
Instructors, Horseback Riding	25-3021
Instructors, Mechanical Maintenance	25-1194
Instructors, Nursing, Postsecondary	25-1072
Instructors, Sailing	25-3021
Instructors, Yoga	39-9031
Instrumentalists	27-2042
Insulation Cutters	51-9032
Insulation Workers, Ceiling	47-2131
Insulation Workers, Floor	47-2131
Insulation Workers, Floor, Ceiling, and Wall	47-2131
Insulation Workers, Mechanical	47-2132
Insulation Workers, Wall	47-2131
Insulators, Pipe	47-2132
Insurance Actuaries	15-2011

Insurance Analysts	13-2053
Insurance Appraisers, Auto Damage	13-1032
Insurance Claims and Policy Processing Clerks	43-9041
Insurance Claims Clerks	43-9041
Insurance Policy Issue Clerks	43-9041
Insurance Policy Processing Clerks	43-9041
Insurance Sales Agents	41-3021
Insurance Sales Supervisors	41-1012
Insurance Underwriters	13-2053
Integrators, Command and Control Systems	55-1015
Intelligence Chiefs	55-2013
Interior Decorators	27-1025
Interior Designers	27-1025
Interior Surface Insulation Workers	47-2131
Internal Auditors	13-2011
Internal Medicine Physicians	29-1063
Internal Revenue Service Agents	13-2081
International Airline Pilots	53-2011
International Relations Professors	25-1065
Internet Developers	15-1134
Internet Marketing Managers	11-2021
Internet Security Specialists	15-1122
Internists, General	29-1063
Interpreters	27-3091
Interpreters and Translators	27-3091
Interpreters, American Sign Language	27-3091
Interpreters, Court	27-3091
Interpreters, Diplomatic	27-3091
Interviewers, Eligibility, Government Programs	43-4061
Interviewers, Except Eligibility and Loan	43-4111
Interviewers, Loan	43-4131
Interviewers, Market Research	43-4111
Interviewers, Medicare	43-4061
Interviewers, Public Housing	43-4061
Intranet Developers	15-1134
Inventory Control Clerks	43-5081
Investigators, Arson	33-2021
Investigators, Casino	33-9031
Investigators, Certified Vehicle Fire	33-2021
Investigators, Claims	13-1031
Investigators, Criminal	33-3021
Investigators, Epidemiology	19-1041
Investigators, Fire	33-2021
Investigators, Gaming	33-9031
Investigators, Narcotics	33-3021
Investigators, Private	33-9021
Investigators, Tax	13-2081
Investment Bankers	41-3031
Invisible Braces Orthodontists	29-1023
Invoice Control Clerks	43-3021
Ironers, Clothes	51-6021
Ironworkers, Bridge	47-2221
Ironworkers, Post Tensioning	47-2171
Ironworkers, Precast Concrete	47-2221
Irradiated Fuel Handlers	47-4041
Irrigation Equipment Mechanics	49-3041
Irrigation Workers	45-2099
Isotope Hydrologists	19-2043
Jacquard Loom Weavers	51-6063
Jailers	33-3012

Janitorial Workers, First-Line Supervisors	37-1011
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	37-2011
Janitors, Except Maids and Housekeeping Cleaners	37-2011
Java Programming Professors	25-1021
Jewel Bearing Facers	51-4033
Jewelers	51-9071
Jewelers and Precious Stone and Metal Workers	51-9071
Jewelry Polishers	51-9022
Jewish History Professors	25-1125
Jig Bore Tool Makers	51-4111
Jig Boring Machine Operators for Metal	51-4011
Jingle Writers	27-2041
Job Analysis Managers	11-3121
Job Analysis Specialists	13-1141
Job Analysts	13-1141
Jockeys	27-2021
Jockeys, Radio Disk	27-3011
Joiners, Stained Glass	47-2121
Joint Strategic Plans and Policy Officers	55-1019
Journalism Professors	25-1122
Judges	23-1023
Judges, Administrative Law	23-1021
Judges, Circuit Court	23-1023
Judges, Competition	27-2023
Judges, Magistrate	23-1023
Judges, Magistrate Judges, and Magistrates	23-1023
Judges, Paddock	27-2023
Judges, Tribal	23-1023
Judicial Clerks	23-1012
Judicial Law Clerks	23-1012
Jumpers, Smoke	33-2011
Junior High School Teachers	25-2022
Justices	23-1023
Justices of the Peace	23-1021
Juvenile Corrections Officers	33-3012
Juvenile Probation Officers	21-1092
Keepers, Lighthouse	53-6011
Keg Fillers	51-9111
Kennel Worker	39-2021
Keno Runners	39-3012
Kettle Operators	51-9051
Kettle Tenders	51-9051
Key Makers	49-9094
Keyers, Data Entry	43-9021
Kiln Door Builders	49-9045
Kiln Operators	51-9051
Kiln Tenders	51-9051
Kindergarten Teachers, Except Special Education	25-2012
Kinesiology Professors	25-1193
Kinesiotherapists	29-1128
Kitchen Designers	27-1025
Kitchen Stewards	35-9099
Kitchen Supervisors	35-1012
Knife Grinders	51-9022
Kosher Butchers	51-3021
Labor Economics Professors	25-1063
Labor Relations Consultants	13-1075
Labor Relations Directors	11-3121
Labor Relations Specialists	13-1075
Labor Training Managers	11-3131

Laboratory Animal Caretakers	31-9096
Laboratory Couriers	43-5021
Laborers and Freight, Stock, and Material Movers, Hand	53-7062
Laborers, Construction	47-2061
Laborers, Construction Craft	47-2061
Laborers, Crop, Nursery, and Greenhouse	45-2092
Laborers, Forestry	45-4011
Laborers, Hand	53-7062
Laborers, Hand, First-Line Supervisors	53-1021
Laborers, Rangelands Conservation	45-4011
Laborers, Shrimp Pond	45-2093
Laborers, Wetlands Conservation	45-4011
Laborers, Wharf	53-7062
Lacquer Spray Booth Operators	51-9121
Ladle Repairers	49-9045
Laminators, Fiberglass	51-2091
Land Appraisers	13-2021
Land Leasing Information Clerks	43-4171
Land Managers	11-9141
Land Surveyors	17-1022
Landing Signal Officers	55-1012
Landing Support Specialists	55-3019
Landscape Architects	17-1012
Landscape Architecture Professors	25-1031
Landscape Designers	17-1012
Landscaping and Groundskeeping Workers	37-3011
Landscaping Workers	37-3011
Landscaping Workers, First-Line Supervisors	37-1012
Lapping Machine Tool Operators, Metal and Plastic	51-4033
Lapping Machine Tool Setters, Metal and Plastic	51-4033
Lapping Machine Tool Tenders, Metal and Plastic	51-4033
Laser Beam Machine Operators	51-4122
Laser Cutter Operators	51-4122
Lasting Machine Operators	51-6042
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4034
Lathe Machine Tool Operators, Metal and Plastic	51-4034
Lathe Machine Tool Setters, Metal and Plastic	51-4034
Lathe Machine Tool Tenders, Metal and Plastic	51-4034
Latin American Studies Professors	25-1062
Launch Operators	53-5022
Laundry and Dry-Cleaning Workers	51-6011
Laundry Attendants	51-6011
Laundry Equipment Operators	51-6011
Laundry Sorters	51-6011
Laundry Workers	51-6011
Law Enforcement Teachers, Postsecondary	25-1111
Law Librarians	25-4021
Law Secretaries	43-6012
Law Teachers, Postsecondary	25-1112
Lawn Caretakers	37-3011
Lawn Mower Repairers	49-3053
Lawn Service Workers, First-Line Supervisors	37-1012
Lawyers	23-1011
Lay Health Advocates	21-1094
Layers, Adobe	47-2021
Layers, Carpet	47-2041
Layers, Cast-Iron Drain Pipe	47-2151
Layers, Composition Floor	47-2042
Layers, Floor, Except Carpet, Wood and Hard Tiles	47-2042
Layers, Parquet Floor	47-2044

Layers, Shock-Absorption Floor	47-2042
Layers, Trench Pipe	47-2151
Layers, Water Main Pipe	47-2151
Layers, Wood Floor	47-2031
Layout Workers, Metal	51-4192
Layout Workers, Metal and Plastic	51-4192
Layout Workers, Plastic	51-4192
Lead Sawyers	51-7041
Lead Team Assemblers	51-2092
Leaders, Infantry Unit	55-2012
Leaders, Military Officer Special Operations, All Other	55-1019
Leaders, Military Officer Tactical Operations, All Other	55-1019
Leased Housing Unit Managers	11-9141
Leasing Property Managers	11-9141
Leather Repairers	51-6041
Leather Workers	51-6041
Legal Administrative Assistants	43-6012
Legal Aides	23-2011
Legal Assistants	23-2011
Legal Secretaries	43-6012
Legal Support Workers, All Other	23-2099
Legal Technicians	23-2099
Legislators	11-1031
Leisure Studies Professors	25-1193
Lenders, Commercial	13-2072
Lens Grinders	51-9083
Lens Mounters	51-9083
Letter Carriers	43-5052
Librarians	25-4021
Librarians, Law	25-4021
Librarians, Music	25-4021
Librarians, School	25-4021
Library Acquisitions Technicians	25-4031
Library and Information Science Professors	25-1082
Library Assistants, Clerical	43-4121
Library Circulation Technicians	25-4031
Library Media Specialists	25-9011
Library Science Teachers, Postsecondary	25-1082
Library Technicians	25-4031
Library Workers, All Other	25-9099
License Clerks	43-4031
Licensed Clinical Mental Health Counselors (LCMHC)	21-1014
Licensed Embalmers	39-4011
Licensed Massage Therapists	31-9011
Licensed Mental Health Counselors (LMHC)	21-1014
Licensed Occupational Therapist Assistants	31-2011
Licensed Physical Therapist Assistants	31-2021
Licensed Practical and Licensed Vocational Nurses	29-2061
Licensed Practical Nurses	29-2061
Licensed Real Estate Brokers	41-9021
Licensed Tax Consultants	13-2082
Licenses Vocational Nurses	29-2061
Lien Searchers	23-2093
Lieutenants, Detective	33-1012
Lieutenants, Fire Lieutenant	33-1021
Lieutenants, Police	33-1012
Life Insurance Salespersons	41-3021
Life Science Taxonomists	19-1099
Life Science Technicians, All Other	19-4099
Life Scientists, All Other	19-1099

Life, Physical, and Social Science Technicians, All Other	19-4099
Lifeguards	33-9092
Lifeguards, Beach	33-9092
Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	33-9092
Light Rail Signal Technicians	49-9097
Light Rail Transit Operators	53-4041
Light Truck Drivers	53-3033
Light Truck or Delivery Services Drivers	53-3033
Lighthouse Keepers	53-6011
Lighting Engineering Technicians	17-3023
Lime Filter Operators	51-8099
Lime Kiln Operators	51-9051
Limousine Drivers	53-3041
Line Cooks	35-2014
Lineworkers, Electric Utility	49-9051
Lineworkers, Electrical	49-9051
Linguists	19-3099
Linoleum Installers	47-2042
Liquid Natural Gas Plant Operators	53-7071
Liquid Waste Treatment Plant Operators	51-8031
Literary Agents	13-1011
Livestock Buyers	13-1021
Loaders, Barge	53-7121
Loaders, Coke	53-7033
Loaders, Rail Car	53-7121
Loaders, Ship	53-7121
Loaders, Tank Car	53-7121
Loaders, Truck	53-7121
Loading Machine Operators	53-7032
Loading Machine Operators, Underground Mining	53-7033
Loadmasters	53-1011
Loan Clerks	43-4131
Loan Counselors	13-2071
Loan Interviewers	43-4131
Loan Interviewers and Clerks	43-4131
Loan Officers	13-2072
Loan Processors	43-4131
Loan Reviewers	13-2072
Loan Servicing Officers	13-2072
Loan Underwriters	13-2072
Lobby Attendants	39-3031
Lobbyists	27-3031
Lock and Dam Operators	53-6011
Lock Operators	53-6011
Lock Tenders	53-6011
Locker Room Attendants	39-3093
Locker Room, Coatroom, and Dressing Room Attendants	39-3093
Locksmith Helpers	49-9098
Locksmiths	49-9094
Locksmiths and Safe Repairers	49-9094
Locomotive Electricians	49-2093
Locomotive Engineers	53-4011
Locomotive Firers	53-4012
Lodging Managers	11-9081
Loft Workers	51-7031
Log Check Scalers	45-4023
Log Graders	45-4023
Log Graders and Scalers	45-4023
Log Haulers	45-4022
Log Ropers	45-4029

Log Scalers	45-4023
Logging Equipment Operators	45-4022
Logging Tractor Operators	45-4022
Logging Truck Drivers	53-3032
Logging Workers, All Other	45-4029
Logisticians	13-1081
Logistics Analysts	13-1081
Logistics Managers	11-3071
Logistics Planners	13-1081
Logistics Specialists	13-1081
Long Distance Operators	43-2021
Long Wall Shear Operators	47-5042
Looping Machine Operators	51-6063
Lounge Hostesses	35-9031
Lounge Hosts	35-9031
LPNs	29-2061
Lumber Kiln Operators	51-9051
Lumber Stacker Operators	45-4022
Lumberjacks	45-4021
Lunchroom Attendants	35-9011
LVNs	29-2061
M1A1 Tank Crewmen	55-3013
Machine Assemblers, Other	51-2031
Machine Builders	51-2031
Machine Erectors	49-9044
Machine Feeders	53-7063
Machine Feeders and Offbearers	53-7063
Machine Gunners	55-3016
Machine Offbearers	53-7063
Machined Parts Quality Inspectors	51-9061
Machinery Dismantlers	49-9044
Machinery Maintenance Workers	49-9041
Machinist Supervisors	51-1011
Machinists	51-4041
Machinists, Automotive	51-4041
Machinists, Gear	51-4041
Machinists, Production	51-4041
Magazine Designers	27-1011
Magicians	27-2099
Magistrate Judges	23-1023
Magistrates	23-1023
Magnetic Resonance Imaging Technologists	29-2035
Maids	37-2012
Maids and Housekeeping Cleaners	37-2012
Mail Carriers, Postal Service	43-5052
Mail Clerks and Mail Machine Operators, Except Postal Service	43-9051
Mail Clerks, Except Postal Service	43-9051
Mail Deliverers	43-5052
Mail Forwarding System Markup Clerks	43-5053
Mail Machine Operators, Except Postal Service	43-9051
Mail Processing Machine Operators, Postal Service	43-5053
Mail Processors, Postal Service	43-5053
Mail Sorters, Postal Service	43-5053
Mail Superintendents	11-9131
Mailroom Clerks	43-9051
Maintenance and Repair Workers, General	49-9071
Maintenance Millwrights	49-9044
Maintenance Painters	47-2141
Maintenance Workers, All Other	49-9099
Maintenance Workers, General	49-9071

Maintenance Workers, Helpers	49-9098
Maintenance Workers, Machinery	49-9043
Maitre D's	35-9031
Makers, Bagel	51-3011
Makers, Brace	51-9082
Makers, Brick	51-9041
Makers, Candy	51-3092
Makers, Cheese	51-3092
Makers, Coat	51-6052
Makers, Corsage	27-1023
Makers, Die	51-4111
Makers, Doll	51-2099
Makers, Eyeglass	51-9083
Makers, Fiberglass Ski	51-2091
Makers, Foundry Mold	51-4071
Makers, Frozen Yogurt	51-3092
Makers, Jig Bore Tool	51-4111
Makers, Key	49-9094
Makers, Metal Gauge	51-4111
Makers, Metal Mock Up	51-4061
Makers, Peanut Butter	51-3092
Makers, Saddle	51-6041
Makers, Salad	35-2021
Makers, Sandwich	35-2021
Makers, Template	51-4061
Makers, Tool	51-4111
Makers, Vest	51-6052
Makers, Wood Die	51-7032
Makers, Yeast	51-3099
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Makeup Artists, Theatrical and Performance	39-5091
Malariologists	19-1041
Management Analysts	13-1111
Management Consultants	13-1111
Management Information Systems Directors	11-3021
Management Psychologists	19-3032
Managers, Administrative Services	11-3011
Managers, Advertising	11-2011
Managers, Air Battle	55-1011
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Managers, Animal Husbandry	11-9013
Managers, Apartment	11-9141
Managers, Architectural	11-9041
Managers, Band	13-1011
Managers, Bar	35-1012
Managers, Benefits	11-3111
Managers, Building	11-9141
Managers, Building Rental	11-9141
Managers, Carpentry	11-9021
Managers, Casino	11-9071
Managers, Community Association	11-9141
Managers, Community Service	11-9151
Managers, Compensation	11-3111
Managers, Computer Systems	11-3021
Managers, Condominium Association	11-9141
Managers, Construction	11-9021
Managers, Contracting	11-3061
Managers, Dairy Farm	11-9013
Managers, Delicatessen Department	41-1011

Managers, Development	11-3131
Managers, Distribution	11-3071
Managers, Distribution Center	11-3071
Managers, District Sales	11-2022
Managers, E-Learning	11-3131
Managers, Engineering	11-9041
Managers, Engineering Design	11-9041
Managers, Export	11-2022
Managers, Facilities	11-3011
Managers, Financial	11-3031
Managers, Fish Hatchery	11-9013
Managers, Food Service	11-9051
Managers, Fundraising	11-2031
Managers, Funeral Home	11-9061
Managers, Funeral Service	11-9061
Managers, Gaming	11-9071
Managers, General	11-1021
Managers, Geophysical	11-9121
Managers, Global Engineering	11-9041
Managers, Health Services	11-9111
Managers, Homeowner Association	11-9141
Managers, Hotel	11-9081
Managers, Human Resources	11-3121
Managers, Industrial Production	11-3051
Managers, In-Flight Refueling	55-2011
Managers, Information Systems	11-3021
Managers, Internet Marketing	11-2021
Managers, Job Analysis	11-3111
Managers, Job Analysis	11-3121
Managers, Labor Training	11-3131
Managers, Land	11-9141
Managers, Leased Housing Unit	11-9141
Managers, Leasing Property	11-9141
Managers, Lodging	11-9081
Managers, Logistics	11-3071
Managers, Marketing	11-2021
Managers, Medical Services	11-9111
Managers, Mental Health Program	11-9111
Managers, Natural Sciences	11-9121
Managers, Operations	11-1021
Managers, Orchard	11-9013
Managers, Other Agricultural	11-9013
Managers, Personnel	11-3121
Managers, Plant	11-3051
Managers, Plumbing	11-9021
Managers, Position Description	11-3111
Managers, Position Description	11-3121
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Managers, Production Control	11-3051
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Managers, Public Relations	11-2031
Managers, Purchasing	11-3061
Managers, Radio Station	11-1021
Managers, Real Estate	11-9141
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Managers, Regional Sales	11-2022
Managers, Rented Housing Unit	11-9141
Managers, Retail Trade Merchandising	11-3061
Managers, Retail Trade Procurement	11-3061

Managers, Right-Of-Way	11-9141
Managers, Sales	11-2022
Managers, Social Science	11-9199
Managers, Social Service	11-9151
Managers, Stage	27-2012
Managers, Storage	11-3071
Managers, Table Games	11-9071
Managers, Television Station	11-1021
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Managers, Transportation	11-3071
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Manufactured Building Installers	49-9095
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Manufacturing Engineer	17-2112
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Marble Ceiling Installers	47-2044
Marble Setters	47-2044
Marine Architects	17-2121
Marine Biologists	19-1023
Marine Chronometer Assemblers	51-2093
Marine Diesel Technicians	49-3031
Marine Divers	49-9092
Marine Drafters	17-3019
Marine Electrician Helpers	47-3013
Marine Electronics Repairers	49-2093
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Marine Engineers	17-2121
Marine Engineers and Naval Architects	17-2121
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Marine Fisheries Technicians	19-4021
Marine Mammal Trainers	39-2011
Marine Oilers	53-5011
Marine Photographers	27-4021
Marine Pipefitter Helpers	47-3015
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Marine Structural Designers	17-2121
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Market Research Analysts and Marketing Specialists	13-1161
Market Research Interviewers	43-4111
Market Research Specialists	13-1161
Marketing Administrators	11-2021
Marketing Consultants	13-1161
Marketing Directors	11-2021
Marketing Forecasters	13-1161
Marketing Managers	11-2021
Marketing Professors	25-1011
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Marriage Therapists	21-1013
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Marshals, Supervising Fire	33-1021
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Masons, Monument	47-2022
Masons, Stucco	47-2161
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Mathematical Science Occupations, All Other	15-2099
Mathematical Science Teachers, Postsecondary	25-1022
Mathematical Statisticians	15-2041
Mathematical Technicians	15-2091
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Mathematicians, Actuarial	15-2011
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Meat Carvers	51-3021
Meat Counter Workers	51-3021
Meat Curers	51-3091
Meat Cutters	51-3021
Meat Graders	45-2041
Meat Packers	51-3023
Meat Trimmers	51-3022
Meat, Poultry, and Fish Cutters and Trimmers	51-3022
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Mechanical Drafters	17-3013
Mechanical Engineering Directors	11-9041
Mechanical Engineering Teachers	25-1032
Mechanical Engineering Technicians	17-3027
Mechanical Engineers	17-2141
Mechanical Insulation Workers	47-2132
Mechanical Maintenance Instructors	25-1194
Mechanical Timepiece Repairers	49-9064
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Mechanics, Air Valve	49-9012
Mechanics, Aircraft	49-3011
Mechanics, Aircraft Instrument	49-2091
Mechanics, Airframe	49-3011
Mechanics, Arcade Games	49-9091
Mechanics, Auto Glass	49-3022
Mechanics, Automatic Door	49-9011

Mechanics, Automatic Pilot	49-2091
Mechanics, Automotive Service	49-3023
Mechanics, Bicycle	49-3091
Mechanics, Boiler	47-2011
Mechanics, Boilerhouse	49-9041
Mechanics, Bowling Alley	49-9099
Mechanics, Building Maintenance	49-9071
Mechanics, Bulldozer	49-3042
Mechanics, Bus	49-3031
Mechanics, Certified Marine	49-3051
Mechanics, Combine	49-3041
Mechanics, Construction Equipment	49-3042
Mechanics, Elevator	47-4021
Mechanics, Farm Equipment	49-3041
Mechanics, First-Line Supervisors	49-1011
Mechanics, Flight Test	49-3011
Mechanics, Forklift	49-3042
Mechanics, Foundry Equipment	49-9041
Mechanics, Garage Door	49-9011
Mechanics, Golf Cart	49-3053
Mechanics, Heating	49-9021
Mechanics, Heating, Ventilation, and Air Conditioning (HVAC)	49-9021
Mechanics, Hybrid Car	49-3023
Mechanics, Hydroelectric Machinery	49-9041
Mechanics, Industrial Machinery	49-9041
Mechanics, Industrial Robotics	49-2094
Mechanics, Irrigation Equipment	49-3041
Mechanics, Mine Car	49-3043
Mechanics, Missile Pad	49-2094
Mechanics, Mobile Heavy Equipment, Except Engines	49-3042
Mechanics, Mobile Home	49-9095
Mechanics, Motor Boat	49-3051
Mechanics, Motor Scooter	49-3052
Mechanics, Motorcycle	49-3052
Mechanics, Outboard Motor	49-3051
Mechanics, Outdoor Power Equipment	49-3053
Mechanics, Power Saw	49-3053
Mechanics, Public Address System	49-2094
Mechanics, Radio	49-2021
Mechanics, Rail Signal	49-9097
Mechanics, Refrigeration	49-9021
Mechanics, RV	49-3092
Mechanics, Safe and Vault	49-9094
Mechanics, School Bus	49-3031
Mechanics, Slot Machine	49-9091
Mechanics, Small Engines, Other	49-3053
Mechanics, Surgical Instrument	49-9062
Mechanics, Tractor Trailer	49-3031
Mechanics, Truck	49-3031
Mechanics, Wind Turbine	49-9081
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Media and Communication Workers, All Other	27-3099
Media Equipment Workers, All Other	27-4099
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Mediation Commissioners	23-1022
Mediators	23-1022
Medical and Clinical Laboratory Technicians	29-2012
Medical and Clinical Laboratory Technologists	29-2011
Medical and Health Services Managers	11-9111
Medical Appliance Technicians	51-9082

Medical Assistants	31-9092
Medical Equipment Preparers	31-9093
Medical Equipment Repairers	49-9062
Medical Estheticians	39-5094
Medical Laboratory Technicians	29-2012
Medical Laboratory Technologists	29-2011
Medical Orderlies	31-1015
Medical Photographers	27-4021
Medical Records Administrators	11-9111
Medical Records and Health Information Technicians	29-2071
Medical Records Library Professors	25-1082
Medical Records Specialists	29-2071
Medical Records Technicians	29-2071
Medical Scientists, Except Epidemiologists	19-1042
Medical Secretaries	43-6013
Medical Services Managers	11-9111
Medical Stenographers	31-9094
Medical Transcribers	31-9094
Medical Transcriptionists	31-9094
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Medicare Interviewers	43-4061
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Meeting, Convention, and Event Planners	13-1121
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Members, Tribal Council	11-1031
Membership Solicitors	41-3099
Memorial Marker Designers	27-1029
Menders, Fabric, Except Garment	49-4093
Mental Health and Substance Abuse Social Workers	21-1023
Mental Health Counselors	21-1014
Mental Health Orderlies	31-1013
Mental Health Program Managers	11-9111
Mental Health Social Workers	21-1023
Mental Health Technicians	29-2053
Merchandise Buyers	13-1022
Merchandise Displayers	27-1026
Merchandise Displayers and Window Trimmers	27-1026
Merchant Mariners	53-5011
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Mess Cooks	35-2012
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Messengers, Bicycle	43-5021
Metal Alloy Scientists	19-2032
Metal Arts Production Artists	27-1012
Metal Casters	51-4052
Metal Computer Numerically Controlled Machine Tool Programmers	51-4012
Metal Computer-Controlled Machine Tool Operators	51-4011
Metal Cutting, Punching, and Press Machine Setters, Operators, and Tenders	51-4031
Metal Die Finishers	51-4111
Metal Drilling and Boring Machine Tool Setters, Operators, and Tenders	51-4032
Metal Engravers	51-9194
Metal Extruding and Drawing Machine Setters, Operators, and Tenders	51-4021
Metal Forging Machine Setters, Operators, and Tenders	51-4022
Metal Gauge Makers	51-4111
Metal Grinders	51-4033
Metal Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tender	51-4033
Metal Heat Treating Equipment Setters, Operators, and Tenders	51-4191
Metal Lathe and Turning Machine Tool Setters, Operators, and Tenders	51-4034

Metal Layout Workers	51-4192
Metal Milling and Planing Machine Setters, Operators, and Tenders	51-4035
Metal Milling Machine Operators	51-4035
Metal Mock Up Makers	51-4061
Metal Model Makers	51-4052
Metal Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders	51-4072
Metal Multiple Machine Tool Setters, Operators, and Tenders	51-4081
Metal Numerical Control Programmers	51-4012
Metal Numerical Tool Programmers	51-4012
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Metal Pickling Machine Operators	51-9192
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Metal Pourers	51-4052
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Metal Workers, All Other	51-4199
Metallographers	17-2131
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Metallurgical Engineers	17-2131
Metallurgical Scientists	19-2032
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Metal-Refining Furnace Operators	51-4051
Metal-Refining Furnace Operators and Tenders	51-4051
Metal-Refining Furnace Tenders	51-4051
Meteorological Aide	19-4099
Meteorologists	19-2021
Meter Maids	33-3041
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Microbiologists, Public Health	19-1022
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Middle School Principals	11-9032
Middle School Science Teachers	25-2022
Middle School Special Education Teachers	25-2053
Middle School Teachers for Students with Moderate Intellectual Disabilities	25-2053
Middle School Teachers, Except Special and Career/Technical Education	25-2022
Middle School Vocational Education Teachers	25-2023
Midwives, Certified Nurse (CNM)	29-1161
Midwives, Nurse	29-1161
Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members, All Otl	55-3019
Military Officer Special and Tactical Operations Leaders, All Other	55-1019
Military Officer Special Operations Leaders, All Other	55-1019
Military Officer Tactical Operations Leaders, All Other	55-1019
Military Science Teachers	25-1199
Milk Testers	45-2011
Mill Beam Fitters	51-2041
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4035
Milling Machine Operators, Metal and Plastic	51-4035
Milling Machine Setters, Metal and Plastic	51-4035
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Mine Car Mechanics	49-3043
Mine Channeling Machine Operators	47-5042

Mine Cutting and Channeling Machine Operators	47-5042
Mine Cutting Machine Operators	47-5042
Mine Shuttle Car Operators	53-7111
Mineral Engineering Teachers	25-1032
Mineral Engineers	17-2151
Mineral Surveyors	17-1022
Mineralogists	19-2042
Miners, Continuous Mining Machine Lode	47-5041
Miners, Roof Bolting Coal	47-5061
Mining and Geological Engineers, Including Mining Safety Engineers	17-2151
Mining Engineers, Including Mining Safety Engineers	17-2151
Mining Helpers	47-5081
Mining Machine Operators, All Other	47-5049
Mining Machine Operators, Continuous	47-5031
Mining Roof Bolters	47-5051
Mining Service Unit Operators	47-5013
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Missile Navigation Systems Sales Engineers	41-9031
Missile Officers	55-1014
Missile Pad Mechanics	49-2094
Missionaries	21-2099
Mitochondrial Disorders Counselors	29-9092
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Mixing and Blending Machine Setters, Operators, and Tenders	51-9023
Mixing Machine Operators	51-9023
Mixing Machine Setters	51-9023
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Mixologists	35-3011
Mobile Heavy Equipment Mechanics, Except Engines	49-3042
Mobile Home Installers	49-9095
Mobile Home Mechanics	49-9095
Mobile Home Servicers	49-9095
Mobility Scooter Repairers	49-3053
Model Makers, Architectural Wood	51-7031
Model Makers, Metal	51-4061
Model Makers, Metal and Plastic	51-4061
Model Makers, Plastic	51-4061
Model Makers, Wood	51-7031
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Models, Fashion	41-9012
Models, Hand	41-9012
Models, Photographer's	41-9012
Mohels	21-2099
Molders, Except Metal and Plastic	51-9195
Molders, Green Sand	51-4071
Molders, Shapers, and Casters, Except Metal and Plastic	51-9195
Molders, Tire	51-9197
Molding Machine Operators, Metal and Plastic	51-4072
Molding Machine Setters, Metal and Plastic	51-4072
Molding Machine Tenders, Metal and Plastic	51-4072
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plas	51-4072
Molecular Physicists	19-2012
Molten Iron Pourers	51-4052
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Monitors, Gambling	33-9031
Monitors, Playground	33-9099
Monument Masons	47-2022
Morgue Attendants	31-9092
Mortarless Segmental Concrete Masonry Wall Unit Installers	37-3011
Mortarmen	55-3016

Mortgage Accounting Clerks	43-3031
Mortgage Loan Agents	13-2072
Mortgage Loan Closers	43-4131
Mortgage Loan Officers	13-2072
Mortician Helpers	39-4021
Morticians	39-4031
Morticians, Certified	39-4031
Morticians, Undertakers, and Funeral Directors	39-4031
Motel Desk Clerks	43-4081
Motion Picture Camera Operators	27-4031
Motion Picture Projectionists	39-3021
Motion Study Technicians	17-3026
Motor Boat Mechanics	49-3051
Motor Boat Service Technicians	49-3051
Motor Coach Bus Drivers	53-3021
Motor Scooter Mechanics	49-3052
Motor Vehicle Emissions Inspectors	53-6051
Motor Vehicle License Clerks	43-4031
Motor Vehicle Operators, All Other	53-3099
Motor Vehicles Electronic Equipment Installers and Repairers	49-2096
Motor Winders	51-2021
Motorboat Mechanic Helpers	49-9098
Motorboat Mechanics and Service Technicians	49-3051
Motorboat Operators	53-5022
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Motorcycle Mechanics	49-3052
Motorcycle Police	33-3051
Motorcycle Service Technicians	49-3052
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Mounters, Plate	51-5111
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Multimedia Animators	27-1014
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Multimedia Artists and Animators	27-1014
Multimedia Collections Specialists	25-9011
Multimedia Production Assistants	27-4011
Multimedia Services Coordinators	25-9011
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Multiple Machine Tool Setters, Metal and Plastic	51-4081
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Multiple Machine Tool Tenders, Metal and Plastic	51-4081
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Municipal Fire Fighting and Prevention Supervisors	33-1021
Museum Conservators	25-4013
Museum Exhibit Technicians	25-4013
Museum Guides	39-7011
Museum Technicians	25-4013
Museum Technicians and Conservators	25-4013
Music Composers	27-2041
Music Directors	27-2041
Music Directors and Composers	27-2041
Music Librarians	25-4021
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Musical Instrument Repairers	49-9063
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Musicians and Singers	27-2042
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Narcotics Investigators	33-3021
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Natural Gas Engineers	17-2171
Natural Sciences Managers	11-9121
Naturopathic Physicians	29-1199
Naval Architects	17-2121
Naval Engineers	17-2121
Naval Surface Fire Support Planners	55-1014
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Network Administrators	15-1142
Network and Computer Systems Administrators	15-1142
Network Coordinators	15-1142
Network Designers	15-1143
Network Developers	15-1143
Network Diagnostic Support Specialist	15-1152
Network Security Administrators	15-1142
Network Security Analysts	15-1122
Network Support Technicians	15-1152
Network Technicians	15-1152
Neuropsychiatrists	29-1066
New Accounts Banking Representatives	43-4141
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News Analysts, Broadcast	27-3021
News Anchors	27-3021
News Commentators	27-3021
News Vendors	41-9091
News Videographers	27-4031
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Newspaper Carriers	41-9091
Newspaper Delivery Drivers	53-3031
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Nitric Acid Plant Operators	51-8091
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Nuclear Cardiology Technologists	29-2033
Nuclear Control Room Operators	51-8011
Nuclear Engineers	17-2161
Nuclear Equipment Sales Engineers	41-9031
Nuclear Medicine Technologists	29-2033
Nuclear Monitoring Technicians	19-4051
Nuclear Power Reactor Operators	51-8011
Nuclear Radiation Engineers	17-2161
Nuclear Reactor Operators	51-8011
Nuclear Station Operators	51-8011
Nuclear Technicians	19-4051
Nurse Anesthetists	29-1151
Nurse Midwives	29-1161
Nurse Practitioners	29-1171
Nurse Practitioners, Gerontological	29-1171
Nursery School Teachers	25-2011
Nurses, Coronary Care Unit	29-1141
Nurses, Licensed Practical	29-2061

Nurses, Licensed Vocational	29-2061
Nurses, Pediatric Licensed Practical	29-2061
Nurses, Psychiatric	29-1141
Nurses, Registered	29-1141
Nursing Aides	31-1014
Nursing Assistants	31-1014
Nursing Attendants	31-1014
Nursing Care Attendants	31-1014
Nursing Instructors and Teachers, Postsecondary	25-1072
Nursing Instructors, Postsecondary	25-1072
Nursing Teachers, Postsecondary	25-1072
Nutrition Professors	25-1071
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Nutritionists, Animal	19-1011
Nutritionists, Public Health	29-1031
OB Specialists	29-1064
OB/GYNs	29-1064
Oboists	27-2042
Observers, Seismic	19-4041
Obstetrical Anesthesiologists	29-1061
Obstetricians	29-1064
Obstetricians and Gynecologists	29-1064
Occupational Health and Safety Specialists	29-9011
Occupational Health and Safety Technicians	29-9012
Occupational Health and Safety Technologists (OHST)	29-9012
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Occupational Safety Technicians	29-9012
Occupational Therapist Aides	31-2012
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Occupational Therapy Aides	31-2012
Occupational Therapy Assistants	31-2011
Ocean Engineers	17-2051
Ocean Program Administrators	11-9121
Oceanographers	19-2042
Oceanography Professors	25-1051
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Offbearers, Machine	53-7063
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Office Machine Operators, Except Computer	43-9071
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Office Runners	43-5021
Office Secretaries	43-6014
Office Support Workers, All Other	43-9199
Office Workers, First Line Supervisors	43-1011
Officers, Air Crew	55-1011
Officers, Air Defense Artillery	55-1014
Officers, Aircraft Launch	55-1012
Officers, Aircraft Recovery	55-1012
Officers, Animal Control	33-9011
Officers, Armored Assault Vehicle	55-1013
Officers, Artillery	55-1014
Officers, Assault Amphibious Vehicle (AAV)	55-1013
Officers, Border Patrol	33-3051
Officers, Budget	13-2031
Officers, Casino Surveillance	33-9031

Officers, Catapult and Arresting Gear	55-1012
Officers, Cavalry	55-1013
Officers, Chemical, Biological, Radiological, and Nuclear (CBRN)	55-1019
Officers, Chief Technology	11-3021
Officers, Combat Information Center	55-1015
Officers, Command and Control	55-1015
Officers, Command Center	55-1015
Officers, Commanding, Homicide Squad	33-1012
Officers, Compliance	13-1041
Officers, Conservation Enforcement	33-3031
Officers, Control Center	55-1015
Officers, Correctional	33-3012
Officers, Court Security	33-3011
Officers, Donor Relations	13-1131
Officers, Environmental Protection Fire Control	33-2022
Officers, Equal Employment Opportunity	13-1041
Officers, Escrow	23-2093
Officers, Flight Deck	55-1012
Officers, Forest Fire Control	33-2022
Officers, Fundraising	13-1131
Officers, Humane	33-9011
Officers, Infantry	55-1016
Officers, Infantry Weapons	55-1016
Officers, Joint Strategic Plans and Policy	55-1019
Officers, Juvenile Corrections	33-3012
Officers, Juvenile Probation	21-1092
Officers, Landing Signal	55-1012
Officers, Loan	13-2072
Officers, Loan Servicing	13-2072
Officers, Missile	55-1014
Officers, Mortgage Loan	13-2072
Officers, Parachute/Combatant Diver	55-1017
Officers, Parking Enforcement	33-3041
Officers, Parole	21-1092
Officers, Police	33-3051
Officers, Probation	21-1092
Officers, Radio	27-4013
Officers, Real Estate Loan	13-2072
Officers, Sea-Air-Land	55-1017
Officers, Sheriff's Patrol	33-3051
Officers, Special Forces	55-1017
Officers, Special Technical Operations	55-1019
Officers, Tank	55-1013
Officers, Targeting Acquisition	55-1014
Officers, Title	23-2093
Officers, Transportation Security	33-9093
Officers, Veterans Service	21-1099
Officers, Wildlife	33-3031
Officials, Sporting	27-2023
Offset Press Operators	51-5112
Oil Burner Repairers	49-9021
Oil Derrick Operators	47-5011
Oil Drilling Engineers	17-2171
Oil Exploration Engineers	17-2171
Oil Field Roustabouts	47-5071
Oil Pipeline Operators	51-8093
Oil Refiners	51-8093
Oil Rig Roughnecks	47-5071
Oil Rotary Drill Operators	47-5012
Oil Roustabouts	47-5051

Oil Service Unit Operators	47-5013
Oil Well Cable Tool Operators	47-5012
Oil Well Drillers	47-5012
Oil Well Pumpers	53-7073
Oilers, Crane	49-9043
Oilers, Marine	53-5011
Olive Pitters	51-3099
Ombudsmen	23-1022
Oncology Social Workers	21-1022
Onyx-Chip Terrazzo Workers	47-2053
Operating Engineers	47-2073
Operating Engineers and Other Construction Equipment Operators	47-2073
Operating Room (OR) Techs	29-2055
Operating Workers, First-Line Supervisors	51-1011
Operations Analysts	15-2031
Operations Managers	11-1021
Operations Research Analysts	15-2031
Operator, Radial Drill Press, Plastics	51-4032
Operators, 911	43-5031
Operators, Acid Purification Equipment	51-9011
Operators, Adhesive Bonding Machine	51-9191
Operators, Agricultural Equipment	45-2091
Operators, Air Hammer	47-2061
Operators, Air Traffic Control	53-2021
Operators, Aluminum Molding Machine	51-4072
Operators, Annealing Furnace	51-4191
Operators, Arch Cushion Press	51-6042
Operators, Asphalt Paving Machine	47-2071
Operators, Asphalt Plant	51-8099
Operators, Asphalt Roller	47-2071
Operators, Aviation Electronic Warfare	55-3011
Operators, Backhoe	53-7032
Operators, Ballast Cleaning Machine	47-4061
Operators, Beveling and Edging Machine	51-9021
Operators, Blacktop-Paver	47-2071
Operators, Blending Machine	51-9023
Operators, Blind Stitch Machine	51-6031
Operators, Blow Mold	51-4072
Operators, Boiler	51-8021
Operators, Boiler Room	51-8021
Operators, Bondactor Machine	49-9045
Operators, Bookbinding Machine	51-5113
Operators, Boom Crane	53-7021
Operators, Bore Miner	47-5042
Operators, Boring Machine Tool, Metal and Plastic	51-4032
Operators, Boring Mill, Metal	51-4032
Operators, Brazing Machine	51-4122
Operators, Buffing Machine Tool, Metal and Plastic	51-4033
Operators, Bulldozer	47-2073
Operators, Butane Compressor	53-7071
Operators, Button Sewing Machine	51-6031
Operators, Buzzsaw	51-7041
Operators, C-13 Catapult	55-3012
Operators, Carton Making Machine	51-9196
Operators, Cash Register	41-2011
Operators, Casting Machine, Metal and Plastic	51-4072
Operators, Chemical Equipment	51-9011
Operators, Chemical Plant	51-8091
Operators, Chemical Process Equipment	51-9011
Operators, Chemical System	51-8091

Operators, Cherry Picker	53-7021
Operators, Circle Saw	51-7041
Operators, Clarifying Machine	51-9012
Operators, Clay Mine Cutting Machine	47-5042
Operators, Cleaning Equipment	51-9192
Operators, Coal Hauler	53-7111
Operators, Coal Tower	53-7021
Operators, Coating Machine	51-9121
Operators, Coating Machine, Metal and Plastic	51-4193
Operators, Coin Wrapping Machine	43-9071
Operators, Cold Header	51-4022
Operators, Combination Machine Tool	51-4081
Operators, Combine	45-2091
Operators, Communications Equipment, All Other	43-2099
Operators, Compacting Machine	51-9041
Operators, Computed Tomography (CT) Scanner	29-2034
Operators, Computer	43-9011
Operators, Computer Numerically Controlled (CNC) Shot Peening	51-4011
Operators, Computer Peripheral Equipment	43-9011
Operators, Computer-Controlled Machine Tool, Metal and Plastic	51-4011
Operators, Concrete Batch Plant	51-8099
Operators, Concrete Paving Machine	47-2071
Operators, Console	43-9011
Operators, Continuous Mining Machine	47-5041
Operators, Control Tower	53-2021
Operators, Conveyor	53-7011
Operators, Conveyor Belt	53-7011
Operators, Cooling Equipment	51-9193
Operators, Copy Machine	43-9071
Operators, Coremaking Machine, Metal and Plastic	51-4072
Operators, Corrugator	51-9196
Operators, Crane	53-7021
Operators, Crimping Machine, Metal	51-4031
Operators, Crochet Machine	51-6063
Operators, Crushing Machine	51-9021
Operators, Custom T-shirt Embroidery Machine	51-6031
Operators, Cutting Machine	51-9032
Operators, Cutting Machine, Metal and Plastic	51-4031
Operators, Cutting Torch	51-4121
Operators, Dairy Processing Equipment	51-9012
Operators, Degreaser	51-9192
Operators, Dimmer Board	27-4099
Operators, Dinkey	53-4013
Operators, Directory Assistance	43-2021
Operators, Doughnut Machine	51-3093
Operators, Dragline	53-7032
Operators, Drawbridge	53-6011
Operators, Drawing Frame	51-6064
Operators, Drawing Machine, Metal and Plastic	51-4021
Operators, Dredge	53-7031
Operators, Drier	51-9051
Operators, Drill Press, Metal	51-4032
Operators, Drilling Machine Tool, Metal and Plastic	51-4032
Operators, Dry Placer Machine	47-5049
Operators, Dumpling Machine	51-3093
Operators, Earth Auger	47-5021
Operators, Earth Boring Machine	47-5021
Operators, Electric Arc Furnace	51-4051
Operators, Electric Sewer Cleaning Machine	47-4071
Operators, Electrical Discharge Machine Setup	51-4199

Operators, Electrostatic Paint	51-9121
Operators, Emergency	43-5031
Operators, Engine Lathe	51-4034
Operators, Excavating Machine	53-7032
Operators, Extruding Machine	51-9041
Operators, Extruding Machine, Metal and Plastic	51-4021
Operators, Extruding Machine, Synthetic and Glass Fibers	51-6091
Operators, Fax Machine	43-2099
Operators, Fermentation	51-9012
Operators, Field Artillery Radar	55-3017
Operators, Filling Machine	51-9111
Operators, Film Projector	39-3021
Operators, Filtering Machine	51-9012
Operators, Fire Engine Pump	33-2011
Operators, Floor Sanding Machine	47-2043
Operators, Fluid Pump	53-7072
Operators, Food Baking Machine	51-3091
Operators, Food Cooking Machine	51-3093
Operators, Food Drying Machine	51-3091
Operators, Food Roasting Machine	51-3091
Operators, Forging Machine, Metal and Plastic	51-4022
Operators, Forging Roll	51-4022
Operators, Forklift	53-7051
Operators, Forming Machine	51-9041
Operators, Forming Machine, Synthetic and Glass Fibers	51-6091
Operators, Forming Roll	51-4023
Operators, Freezing Equipment	51-9193
Operators, Freight Elevator	53-7199
Operators, Furnace	51-9051
Operators, Gas Compressor	53-7071
Operators, Gas Derrick	47-5011
Operators, Gas Plant	51-8092
Operators, Gas Pumping Station	53-7071
Operators, Glass Cutting Machine	51-9032
Operators, Glue Line	51-9191
Operators, Glue Reel	51-9191
Operators, Grain Elevator	53-7011
Operators, Grain Market	13-1021
Operators, Grapple Skidder	45-4022
Operators, Gravure Press	51-5112
Operators, Grinding Machine	51-9021
Operators, Grinding Machine Tool, Metal and Plastic	51-4033
Operators, Hat Blocking Machine	51-6099
Operators, Heat Treating Equipment, Metal and Plastic	51-4191
Operators, Heating, Ventilation, and Air Conditioning (HVAC) Mechanic Boiler	51-8021
Operators, Hoist	53-7041
Operators, Horizontal Boring Machine	47-5021
Operators, Hydraulic Pile Hammer	47-2072
Operators, Hydroelectric Plant	51-8013
Operators, Hydrotreater	51-8093
Operators, Ice-Resurfacing Machine	53-3099
Operators, Industrial Tractor	53-7051
Operators, Industrial Truck	53-7051
Operators, Information	43-2021
Operators, Jig Boring Machine, Metal	51-4011
Operators, Kettle	51-9051
Operators, Kiln	51-9051
Operators, Lacquer Spray Booth	51-9121
Operators, Lapping Machine Tool, Metal and Plastic	51-4033
Operators, Laser Beam Machine	51-4122

Operators, Laser Cutter	51-4122
Operators, Lasting Machine	51-6042
Operators, Lathe Machine Tool, Metal and Plastic	51-4034
Operators, Launch	53-5022
Operators, Laundry Equipment	51-6011
Operators, Light Rail Transit	53-4041
Operators, Lime Filter	51-8099
Operators, Lime Kiln	51-9051
Operators, Liquid Natural Gas Plant	53-7071
Operators, Liquid Waste Treatment Plant	51-8031
Operators, Loading Machine	53-7032
Operators, Loading Machine, Underground Mining	53-7033
Operators, Lock	53-6011
Operators, Lock and Dam	53-6011
Operators, Logging Equipment	45-4022
Operators, Logging Tractor	45-4022
Operators, Long Distance	43-2021
Operators, Long Wall Shear	47-5042
Operators, Looping Machine	51-6063
Operators, Lumber Kiln	51-9051
Operators, Lumber Stacker	45-4022
Operators, Mail Machine, Except Postal Service	43-9051
Operators, Metal Milling Machine	51-4035
Operators, Metal Pickling Equipment	51-9192
Operators, Metal Punch Press	51-4031
Operators, Metal Rivet Machine	51-4199
Operators, Metal-Refining Furnace	51-4051
Operators, Milling Machine, Metal and Plastic	51-4035
Operators, Mine Channeling Machine	47-5042
Operators, Mine Cutting Machine	47-5042
Operators, Mine Shuttle Car	53-7111
Operators, Mining Machine, All Other	47-5049
Operators, Mixing Machine	51-9023
Operators, Molding Machine, Metal and Plastic	51-4072
Operators, Motor Vehicle, All Other	53-3099
Operators, Motorboat	53-5022
Operators, Multiple Machine Tool, Metal and Plastic	51-4081
Operators, Nitric Acid Plant	51-8091
Operators, Nuclear Control Room	51-8011
Operators, Nuclear Power Reactor	51-8011
Operators, Nuclear Reactor	51-8011
Operators, Nuclear Station	51-8011
Operators, Office Machine, Except Computer	43-9071
Operators, Offset Press	51-5112
Operators, Oil Derrick	47-5011
Operators, Oil Pipeline	51-8093
Operators, Oil Well Cable Tool	47-5012
Operators, Other Construction Equipment	47-2073
Operators, Oven	51-9051
Operators, Packaging Machine	51-9111
Operators, Painting Machine	51-9121
Operators, Paper Gluing	51-9191
Operators, Paper Goods Machine	51-9196
Operators, Paving Equipment	47-2071
Operators, Payloader	53-7032
Operators, Petroleum Pump Refinery	51-8093
Operators, Petroleum Pump System	51-8093
Operators, Pharmaceutical Manufacturing Machine	51-8091
Operators, Photographic Processing Machine	51-9151
Operators, Pile-Driver	47-2072

Operators, Planing Machine, Metal and Plastic	51-4035
Operators, Plant, All Other	51-8099
Operators, Plastic Cup Fabricating Machine	51-4072
Operators, Plastic Straightening Roll	51-4023
Operators, Plastic Thread Milling Machine Setup	51-4035
Operators, Plating Machine, Metal and Plastic	51-4193
Operators, Polishing Machine	51-9021
Operators, Polishing Machine Tool, Metal and Plastic	51-4033
Operators, Potato Chip Packaging Machine	51-9111
Operators, Power Plant	51-8013
Operators, Powerhouse	51-8013
Operators, Precipitating Machine	51-9012
Operators, Press Machine, Metal and Plastic	51-4031
Operators, Pressing Machine	51-9041
Operators, Printing Press	51-5112
Operators, Private Branch Exchange	43-2011
Operators, Processing Machine, Postal Service	43-5053
Operators, Pulverizer	51-9021
Operators, Pump, Except Wellhead Pumpers	53-7072
Operators, Punching Machine, Metal and Plastic	51-4031
Operators, Radio	27-4013
Operators, Radiophone	27-4013
Operators, Railroad Bed Tamping Machine	47-4061
Operators, Railroad Brake	53-4021
Operators, Railroad Signal	53-4021
Operators, Railroad Switch	53-4021
Operators, Rail-Track Laying Equipment	47-4061
Operators, Rail-Track Maintenance Equipment	47-4061
Operators, Railway Equipment	53-4099
Operators, Railway Switch	53-4021
Operators, Rasper Machine	51-6042
Operators, Refrigerating Machine	51-9193
Operators, Retarder	53-4099
Operators, Rip Saw	51-7041
Operators, Rolling Machine, Metal and Plastic	51-4023
Operators, Rotary Derrick	47-5011
Operators, Rotary Drill, Gas	47-5012
Operators, Rotary Drill, Oil	47-5012
Operators, Rubber Extrusion	51-9041
Operators, Sandfill	47-5099
Operators, Satellite Communications	27-4099
Operators, Sawing Machine, Wood	51-7041
Operators, School Bus	53-3022
Operators, Screw Machine	51-4034
Operators, Self-Propelled Mining Machine	47-5041
Operators, Separating machine	51-9012
Operators, Service Unit, Gas	47-5013
Operators, Service Unit, Mining	47-5013
Operators, Service Unit, Oil	47-5013
Operators, Sewage Plant	51-8031
Operators, Sewage Screen	47-4071
Operators, Sewing Machine	51-6031
Operators, Shoe Machine	51-6042
Operators, Shovel	53-7032
Operators, Silk Winding Machine	51-6064
Operators, Ski Lift	39-3091
Operators, Slicing Machine	51-9032
Operators, Slip Bridge	53-6011
Operators, Slubber Machine	51-6064
Operators, Smelter	51-4051

Operators, Soldering Machine	51-4122
Operators, Sonar Subsystem Equipment	55-3017
Operators, Speedboat	53-5022
Operators, Spike Machine	51-4022
Operators, Spotlight	27-4099
Operators, Spraying Machine	51-9121
Operators, Stacker	53-7051
Operators, Steam Plant Control Room	51-8012
Operators, Steam Shovel	47-2073
Operators, Still Machine	51-9012
Operators, Stone Spreader	47-2071
Operators, Street Cleaning Equipment	53-3099
Operators, Streetcar	53-4041
Operators, Substation	51-8012
Operators, Subway	53-4041
Operators, Surfacing Equipment	47-2071
Operators, Swager	51-4022
Operators, Switchboard, Including Answering Service	43-2011
Operators, System, All Other	51-8099
Operators, Tamping Equipment	47-2071
Operators, Tavern	11-9051
Operators, Team Assembly Line Machine	51-2092
Operators, Telephone	43-2021
Operators, Telephone Answering Service	43-2011
Operators, Telephone Switchboard	43-2011
Operators, Textile Bleaching Machine	51-6061
Operators, Textile Cutting Machine	51-6062
Operators, Textile Drawing Out Machine	51-6064
Operators, Textile Dyeing Machine	51-6061
Operators, Textile Knitting Machine	51-6063
Operators, Textile Twisting Machine	51-6064
Operators, Textile Weaving Machine	51-6063
Operators, Textile Winding Machine	51-6064
Operators, Tobacco Baking Machine	51-3091
Operators, Tobacco Drying Machine	51-3091
Operators, Tobacco Roasting Machine	51-3091
Operators, Tool Grinding Machine	51-4194
Operators, Tool Polishing Machine	51-4033
Operators, Tower	53-7021
Operators, Track Surfacing Machine	47-4061
Operators, Tractor	45-2091
Operators, Tram	53-4041
Operators, Transfer Table	53-4099
Operators, Trim Saw	51-7041
Operators, Trolley Car	53-4041
Operators, Turning Machine Tool, Metal and Plastic	51-4034
Operators, Ultrasonic Welding Machine	51-4122
Operators, Underground Bolting Machine	47-5061
Operators, Veterinary X-Ray	29-2056
Operators, Video Control	27-4011
Operators, Washing Equipment	51-9192
Operators, Wastewater System	51-8031
Operators, Wastewater Treatment Plant	51-8031
Operators, Water Taxi	53-5022
Operators, Water Treatment Plant	51-8031
Operators, Water Treatment System	51-8031
Operators, Web Press	51-5112
Operators, Weighing Station	43-5111
Operators, Welding Machine	51-4122
Operators, Welding Robot	51-4011

Operators, Well Servicing Rig	47-5013
Operators, Welt Trimming Machine	51-6062
Operators, Winch	53-7041
Operators, Winch Derrick	53-7041
Operators, Wood Dowel Machine	51-7042
Operators, Wood Lathe	51-7042
Operators, Woodworking Machine, Except Sawing	51-7042
Ophthalmic Laboratory Technicians	51-9083
Ophthalmic Medical Technicians	29-2057
Ophthalmic Technologists	29-2057
Ophthalmologists	29-1069
Optical Engineering Technicians	17-3029
Optical Engineers	17-2199
Optical Scientists	19-2012
Opticians, Contact Lens	29-2081
Opticians, Dispensing	29-2081
Optomechanical Technicians	17-3027
Optometrists	29-1041
Optometry, Doctors of	29-1041
Oral and Maxillofacial Surgeons	29-1022
Oral Hygienists	29-2021
Oral Pathologists	29-1029
Oral Surgeons	29-1022
Orchard Managers	11-9013
Orchestra Conductors	27-2041
Orchestrators	27-2041
Order Clerks	43-4151
Order Fillers	43-5081
Orderlies	31-1015
Orderlies, Hospital	31-1015
Orderlies, Medical	31-1015
Orderlies, Mental Health	31-1013
Orderlies, Psychiatric	31-1013
Orderlies, Surgical	31-1015
Ordinary Seamen	53-5011
Ordnance Engineers	17-2199
Ordnance Handling Experts	47-5031
Organic Chemistry Professors	25-1052
Ornamental Plasterers	47-2161
Ornithologists	19-1023
Ortho/Prosthetic Aides	31-9099
Orthodontic Assistants	31-9091
Orthodontic Technicians	51-9081
Orthodontists	29-1023
Orthodontists, Invisible Braces	29-1023
Orthodontists, Pediatric	29-1023
Orthopedic Cast Specialists	31-9092
Orthopedic Surgeons	29-1067
Orthopedists, Foot	29-1081
Orthotics Technicians	51-9082
Orthotists	29-2091
Orthotists and Prosthetists	29-2091
Osteologists	19-1029
Other Announcers	27-3012
Other Construction Equipment Operators	47-2073
Other Recreational Protective Service Workers	33-9092
Outboard Motor Mechanics	49-3051
Outdoor Emergency Care Technicians	33-9092
Outdoor Power Equipment and Other Small Engine Mechanics	49-3053
Outdoor Power Equipment Mechanics	49-3053

Outpatient Interviewing Clerks	43-4111
Oven Operators	51-9051
Oven Tenders	51-9051
Overhaulers, Trolley Car	49-3043
Oxygen Therapists	29-1126
Oxygen Therapy Technicians	29-2054
Oyster Shuckers	51-3022
Package Designers	27-1021
Packagers, Hand	53-7064
Packaging and Filling Machine Operators and Tenders	51-9111
Packaging Clerks	43-9051
Packaging Engineers	17-2112
Packaging Machine Operators	51-9111
Packaging Machine Tenders	51-9111
Packers and Packagers, Hand	53-7064
Packers, Egg	53-7064
Packers, Halal Meat	51-3023
Packers, Hand	53-7064
Packers, Meat	51-3022
Paddock Judges	27-2023
Paediatricians	29-1065
Painters Helpers	47-3014
Painters, Aircraft	51-9122
Painters, Auto	51-9122
Painters, Bridge	47-2141
Painters, Ceramic	51-9123
Painters, Construction	47-2141
Painters, Construction and Maintenance	47-2141
Painters, House	47-2141
Painters, Maintenance	47-2141
Painters, Railroad Car	51-9122
Painters, Sign	51-9123
Painters, Traffic Line	47-2141
Painters, Transportation Equipment	51-9122
Painting Machine Operators	51-9121
Painting Machine Setters	51-9121
Painting Machine Tenders	51-9121
Painting Workers	51-9123
Painting, Coating, and Decorating Workers	51-9123
Paleobotanists	19-1029
Paleology Professors	25-1061
Paleontologists	19-2042
Pallbearers	39-4021
Pantograph Engravers	51-9194
Pants Pressers	51-6021
Paper Gluing Operators	51-9191
Paper Goods Machine Operators	51-9196
Paper Goods Machine Setters	51-9196
Paper Goods Machine Setters, Operators, and Tenders	51-9196
Paper Goods Machine Tenders	51-9196
Paperhangers	47-2142
Paperhangers Helpers	47-3014
Parachute Repairers	49-9093
Parachute/Combatant Diver Officers	55-1017
Paralegals	23-2011
Paralegals and Legal Assistants	23-2011
Paramedics	29-2041
Paramedics, Flight	29-2041
Pararescue Craftsmen	55-3018
Parcel Post Clerks	43-5051

Parents, House	39-9041
Parers, Fruit and Vegetable	35-2021
Park Police	33-3051
Parkers, Valet	53-6021
Parking Enforcement Officers	33-3041
Parking Enforcement Workers	33-3041
Parking Lot Attendants	53-6021
Parking Meter Collectors	49-9091
Parking Ramp Attendants	53-6021
Parole Agents	21-1092
Parole Officers	21-1092
Parquet Floor Layers	47-2044
Parts Salespersons	41-2022
Passenger Relations Representatives	43-4051
Pasteurizers	51-9012
Pastry Chefs	35-1011
Pastry Finishers	51-3011
Patchers, Cement	47-2051
Patchers, Road	47-4051
Pathologists, Oral	29-1029
Pathologists, Research Medical	19-1042
Pathologists, Speech-Language	29-1127
Pathology Technicians	29-2012
Pathology Transcriptionists	31-9094
Patient Account Representatives	43-3021
Patrol, Track	33-3052
Patternmaker, Embroidery	51-6092
Patternmakers, Apparel	51-6092
Patternmakers, Clothing	51-6092
Patternmakers, Fabric	51-6092
Patternmakers, Metal	51-4062
Patternmakers, Metal and Plastic	51-4062
Patternmakers, Plastic	51-4062
Patternmakers, Wood	51-7032
Pavers, Segmental	47-4091
Paving Equipment Operators	47-2071
Paving Stone Installers	47-4091
Paving, Surfacing, and Tamping Equipment Operators	47-2071
Payloader Operators	53-7032
Payroll and Timekeeping Clerks	43-3051
Payroll Clerks	43-3051
Payroll Supervisors	43-1011
Peanut Butter Makers	51-3092
Pecan Gatherers	45-2092
Peddlers	41-9091
Pediatric Audiologists	29-1181
Pediatric Dieticians	29-1031
Pediatric Licensed Practical Nurses	29-2061
Pediatric Orthodontists	29-1023
Pediatricians, General	29-1065
Pediatricians, Primary Care	29-1065
Pediatrists	29-1065
Pedicurists	39-5092
Pedorthists	29-2091
Peer Health Promoters	21-1094
Penology Professors	25-1111
Pension Agents	41-3021
Pepper Pickers	45-2092
Performance Makeup Artists	39-5091
Performers Agents	13-1011

Performers Business Managers	13-1011
Periodontists	29-1029
Personal Care Aides	39-9021
Personal Care and Service Workers, All Other	39-9099
Personal Care Workers, All Other	39-9099
Personal Chefs	35-2013
Personal Financial Advisors	13-2052
Personal Investment Advisers	13-2052
Personal Secretaries	43-6014
Personal Service Workers, All Other	39-9099
Personal Service Workers, First-Line Supervisors	39-1021
Personal Shoppers	41-9099
Personal Trainers	39-9031
Personnel Clerks	43-4161
Personnel Managers	11-3121
Personnel Recruiters	13-1071
Persons, Slot Key	39-1012
Pest Control Service Sales Agents	41-3099
Pest Control Workers	37-2021
Pesticide Applicators, Vegetation	37-3012
Pesticide Handlers, Sprayers, and Applicators, Vegetation	37-3012
Pesticide Handlers, Vegetation	37-3012
Pesticide Sprayers, Vegetation	37-3012
Petroleum Engineering Teachers	25-1032
Petroleum Engineers	17-2171
Petroleum Pump Refinery Operators	51-8093
Petroleum Pump System Operators	51-8093
Petroleum Pump System Operators, Refinery Operators, and Gaugers	51-8093
Petroleum Samplers	51-9061
Petroleum Technicians	19-4041
Petrologists	19-2042
Pharmaceutical Manufacturing Machine Operators	51-8091
Pharmaceutical Sales Representatives	41-4011
Pharmacist Assistants	31-9095
Pharmacist Technicians	29-2052
Pharmacists	29-1051
Pharmacists, Hospital	29-1051
Pharmacoepidemiologists	19-1041
Pharmacologists, Research	19-1042
Pharmacology Professors	25-1071
Pharmacy Aides	31-9095
Pharmacy Clerks	31-9095
Pharmacy Delivery Drivers	53-3033
Pharmacy Technicians	29-2052
Philosophy and Religion Teachers, Postsecondary	25-1126
Philosophy Teachers, Postsecondary	25-1126
Phlebotomists	31-9097
Phlebotomy Technicians	31-9097
Photo Lab Specialists	51-9151
Photo Retouchers	51-9151
Photoengravers	51-5111
Photogrammetrists	17-1021
Photographers	27-4021
Photographer's Models	41-9012
Photographers, Aerial	27-4021
Photographers, Marine	27-4021
Photographers, Medical	27-4021
Photographers, Scientific	27-4021
Photographers, Wedding	27-4021
Photographic Equipment Repairers	49-9061

Photographic Equipment Technicians	49-9061
Photographic Process Workers	51-9151
Photographic Process Workers and Processing Machine Operators	51-9151
Photographic Processing Machine Operators	51-9151
Photography and Prints Curators	25-4012
Photography Professors	25-1121
Photojournalists	27-4021
Photonics Engineers	17-2199
Photovoltaic (PV) Installation Technicians	47-2231
Physical Biochemists	19-1021
Physical Chemistry Professors	25-1052
Physical Education (PE) Professors	25-1193
Physical Science Technicians, All Other	19-4099
Physical Scientists, All Other	19-2099
Physical Therapist Aides	31-2022
Physical Therapist Assistants	31-2021
Physical Therapists	29-1123
Physical Therapy Aides	31-2022
Physician Assistants	29-1071
Physician Assistants, Family Practice	29-1071
Physicians and Surgeons, All Other	29-1069
Physicians, All Other	29-1069
Physicians, Chiropractic	29-1011
Physicians, Family Practice	29-1062
Physicians, Internal Medicine	29-1063
Physicians, Naturopathic	29-1199
Physicians, Research	19-1042
Physicists	19-2012
Physicists, Molecular	19-2012
Physics Teachers, Postsecondary	25-1054
Physiologists, Applied Exercise	29-1128
Physiologists, Clinical Exercise	29-1128
Physiologists, Exercise	29-1128
Physiologists, Plant	19-1013
Physiotherapists	29-1123
Physiotherapy Assistants	31-2021
Piano Professors	25-1121
Piano Refinishers	51-7021
Piano Tuners	49-9063
Pickers, Pepper	45-2092
Pickers, Shrimp	51-3022
Pile-Driver Operators	47-2072
Pilots in Command, Airline	53-2011
Pilots of Water Vessels	53-5021
Pilots, Air Ambulance	53-2012
Pilots, Air Tour	53-2012
Pilots, Airline	53-2011
Pilots, Charter (Air Transport Certificate Required)	53-2011
Pilots, Charter (Air Transport Pilot Certificate Required)	53-2011
Pilots, Charter (Airline)	53-2011
Pilots, Charter (Commercial Pilot Certificate Required)	53-2012
Pilots, Charter (Commercial)	53-2012
Pilots, Commercial	53-2012
Pilots, Harbor	53-5021
Pilots, Helicopter	53-2012
Pilots, International Airline	53-2011
Pilots, National Airline	53-2011
Pilots, Regional Airline	53-2011
Pipe Coverers	47-2132
Pipe Insulators	47-2132

Pipe Welders	51-4121
Pipefitters	47-2152
Pipefitters Helpers	47-3015
Pipelayers	47-2151
Pipelayers Helpers	47-3015
Pit Bosses	39-1011
Pit Clerks	39-3019
Pitters, Olive	51-3099
Pizza Delivery Drivers	53-3031
Planers, Shale	47-5042
Planers, Wood	51-7042
Planing Machine Operators Metal and Plastic	51-4035
Planing Machine Setters, Metal and Plastic	51-4035
Planing Machine Tenders, Metal and Plastic	51-4035
Planners, City	19-3051
Planners, Community Development	19-3051
Planners, Conference	13-1121
Planners, Convention	13-1121
Planners, Corporate Meeting	13-1121
Planners, Estate	13-2052
Planners, Event	13-1121
Planners, Logistics	13-1081
Planners, Meeting	13-1121
Planners, Naval Surface Fire Support	55-1014
Planners, Regional	19-3051
Planners, Urban	19-3051
Planners, Wedding	13-1121
Planning Clerks	43-5061
Plant and System Operators, All Other	51-8099
Plant Managers	11-3051
Plant Operators, All Other	51-8099
Plant Physiologists	19-1013
Plant Scientists	19-1013
Planters, Shrub	37-3011
Planters, Tree	45-4011
Plasterers	47-2161
Plasterers and Stucco Masons	47-2161
Plasterers Helpers	47-3014
Plasterers, Ornamental	47-2161
Plasterers, Swimming Pool	47-2161
Plastic Computer Numerically Controlled Machine Tool Programmers	51-4012
Plastic Computer-Controlled Machine Tool Operators	51-4011
Plastic Cup Fabricating Machine Operators	51-4072
Plastic Cutting, Punching, and Press Machine Setters, Operators, and Tenders	51-4031
Plastic Drilling and Boring Machine Tool Setters, Operators, and Tenders	51-4032
Plastic Extruding and Drawing Machine Setters, Operators, and Tenders	51-4021
Plastic Forging Machine Setters, Operators, and Tenders	51-4022
Plastic Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tend	51-4033
Plastic Heat Treating Equipment Setters, Operators, and Tenders	51-4191
Plastic Jig and Fixture Builders	51-4061
Plastic Lathe and Turning Machine Tool Setters, Operators, and Tenders	51-4034
Plastic Layout Workers	51-4192
Plastic Milling and Planing Machine Setters, Operators, and Tenders	51-4035
Plastic Model Makers	51-4061
Plastic Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders	51-4072
Plastic Multiple Machine Tool Setters, Operators, and Tenders	51-4081
Plastic Patternmakers	51-4062
Plastic Plating and Coating Machine Setters, Operators, and Tenders]	51-4193
Plastic Rolling Machine Setters, Operators, and Tenders	51-4023
Plastic Straightening Roll Operators	51-4023

Plastic Surgeons	29-1067
Plastic Thread Milling Machine Setup Operators	51-4035
Plastic Workers, All Other	51-4199
Plastics Engineers	17-2041
Plastics Scientists	19-2032
Plate Glass Installers	47-2121
Plate Mounters	51-5111
Platemakers	51-5111
Platers, Nickel	51-4193
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	51-4193
Plating Machine Operators, Metal and Plastic	51-4193
Plating Machine Setters, Metal and Plastic	51-4193
Plating Machine Tenders, Metal and Plastic	51-4193
Players, Football	27-2021
Players, Proposition	39-3019
Playground Monitors	33-9099
Playground Workers	39-9032
Playwrights	27-3043
Plumber Assistants	47-3015
Plumbers	47-2152
Plumbers Helpers	47-3015
Plumbers, Pipefitters, and Steamfitters	47-2152
Plumbing Managers	11-9021
Podiatric Technicians	29-9099
Podiatrists	29-1081
Poker Dealers	39-3011
Pole Framers	51-7099
Police and Sheriff's Patrol Officers	33-3051
Police Dispatchers	43-5031
Police Lieutenants	33-1012
Police Officers	33-3051
Police Radio Dispatchers	43-5031
Police, Fire, and Ambulance Dispatchers	43-5031
Police, First-Line Supervisors	33-1012
Police, Motorcycle	33-3051
Police, Park	33-3051
Police, Railroad	33-3052
Police, Transit	33-3052
Police, Transit Authority	33-3052
Polishers, Aluminum	51-4033
Polishers, Diamond	51-9071
Polishers, Jewelry	51-9022
Polishers, Marble and Granite	51-9021
Polishers, Precision Lens	51-9083
Polishing Machine Operators	51-9021
Polishing Machine Setters	51-9021
Polishing Machine Tenders	51-9021
Polishing Machine Tool Operators, Metal and Plastic	51-4033
Polishing Machine Tool Setters, Metal and Plastic	51-4033
Polishing Machine Tool Tenders, Metal and Plastic	51-4033
Polishing Workers, Hand	51-9022
Political Anthropologists	19-3091
Political Cartoonists	27-1013
Political Consultants	19-3094
Political Geographers	19-3092
Political Research Scientists	19-3094
Political Science Teachers, Postsecondary	25-1065
Political Scientists	19-3094
Pollsters	19-3022
Pollution Control Engineering Technicians	17-3025

Pollution Control Engineers	17-2081
Pollution Control Technicians	19-4091
Polygraph Examiners	19-4099
Polymer Scientists	19-2032
Polymerization Engineers	17-2041
Polysomnograph Techs	29-2099
Port Captains	53-5021
Porters, Baggage	39-6011
Position Description Managers	11-3121
Post Tensioning Ironworkers	47-2171
Postal Service Clerks	43-5051
Postal Service Mail Carriers	43-5052
Postal Service Mail Processing Machine Operators	43-5053
Postal Service Mail Processors	43-5053
Postal Service Mail Sorters	43-5053
Postal Service Mail Sorters, Processors, and Processing Machine Operators	43-5053
Postal Service Window Clerks	43-5051
Postal Supervisors	11-9131
Posters, Billboard	47-2142
Posting Clerks	43-3021
Postmasters	11-9131
Postmasters and Mail Superintendents	11-9131
Postsecondary Education Administrators	11-9033
Postsecondary Teachers, All Other	25-1199
Potato Chip Friers	51-3093
Potato Chip Packaging Machine Operators	51-9111
Potters, Hand	27-1012
Poultry Cutters	51-3022
Poultry Eviscerators	51-3022
Poultry Hangers	51-3099
Poultry Scientists	19-1011
Poultry Slaughterers	51-3023
Poultry Trimmers	51-3022
Pourers and Casters, Metal	51-4052
Pourers, Metal	51-4052
Pourers, Molten Iron	51-4052
Pourers, Steel	51-4052
Power Dispatchers	51-8012
Power Distribution Engineers	17-2071
Power Distributors	51-8012
Power Distributors and Dispatchers	51-8012
Power Plant Operators	51-8013
Power Saw Mechanics	49-3053
Power Tool Repairers	49-2092
Power Transformer Repairers	49-2095
Powerhouse Electrical and Electronics Repairers	49-2095
Powerhouse Electricians	49-2095
Powerhouse Operators	51-8013
Practitioners, Cardiology Nurse	29-1171
Practitioners, Family	29-1062
Practitioners, Family Practice Nurse	29-1171
Practitioners, General	29-1062
Practitioners, Healthcare, All Other	29-9099
Practitioners, Health Diagnosing, All Other	29-1199
Practitioners, Health Treating, All Other	29-1199
Practitioners, Nurse	29-1171
Precast Concrete Ironworkers	47-2221
Precious Metal Workers	51-9071
Precious Stone Workers	51-9071
Precipitating Machine Operators	51-9012

Precipitating Machine Setters	51-9012
Precipitating Machine Tenders	51-9012
Precision Equipment Repairers, All Other	49-9069
Precision Instrument and Equipment Repairers, All Other	49-9069
Precision Instrument Repairers, All Other	49-9069
Precision Lens Centerer-Edgers	51-9083
Precision Lens Centerers and Edgers	51-9083
Precision Lens Grinders	51-9083
Precision Lens Polishers	51-9083
Predatory Animal Trappers	45-3021
Pre-Kindergarten Special Education Teachers	25-2051
Pre-Kindergarten Teachers	25-2011
Prenatal Genetic Counselors	29-9092
Preparers, Income Tax	13-2082
Preparers, Medical Equipment	31-9093
Preparers, Tax	13-2082
Prepress Technicians	51-5111
Prepress Technicians and Workers	51-5111
Prepress Workers	51-5111
Preschool Directors	11-9031
Preschool Education Administrators	11-9031
Preschool Teachers, Except Special Education	25-2011
Prescription Clerks	31-9095
Press Machine Operators, Metal and Plastic	51-4031
Press Machine Setters, Metal and Plastic	51-4031
Press Machine Tenders, Metal and Plastic	51-4031
Press Secretaries	27-3031
Pressers, Garment	51-6021
Pressers, Pants	51-6021
Pressers, Related Materials	51-6021
Pressers, Sugar	51-9041
Pressers, Textile	51-6021
Pressers, Textile, Garment, and Related Materials	51-6021
Pressers, Wool	51-6021
Pressing Machine Operators	51-9041
Pressing Machine Setters	51-9041
Pressing Machine Tenders	51-9041
Priests	21-2011
Primary Care Pediatricians	29-1065
Primary Education Professors	25-1081
Principals, Elementary School	11-9032
Principals, High School	11-9032
Principals, Middle School	11-9032
Print Binding and Finishing Workers	51-5113
Print Binding Workers	51-5113
Print Finishing Workers	51-5113
Printed Circuit Board Drafters	17-3012
Printers, Digital Photo	51-9151
Printing Press Operators	51-5112
Printing Worker Supervisors	51-1011
Prison Guard Supervisors	33-1011
Prison Guards	33-3012
Private Branch Exchange (PBX) Installers and Repairers	49-2022
Private Branch Exchange Operators	43-2011
Private Chefs	35-2013
Private Detectives	33-9021
Private Detectives and Investigators	33-9021
Private Eyes	33-9021
Private Household Cooks	35-2013
Private Investigators	33-9021

Probate Clerks	43-4199
Probation Officers	21-1092
Probation Officers and Correctional Treatment Specialists	21-1092
Procedure Analysts	15-2031
Process Analysts	15-2031
Processors, Electronic Semiconductor	51-9141
Processors, Etcher-Circuit	51-9194
Processors, Gas Cylinder	53-7071
Processors, Loan	43-4131
Processors, Semiconductor	51-9141
Processors, Statement	43-3021
Processors, Word	43-9022
Procurement Assistants	43-3061
Procurement Clerks	43-3061
Procurement Managers	11-3061
Producers	27-2012
Producers and Directors	27-2012
Product Promoters	41-9011
Product Safety Engineers	17-2111
Production Clerks	43-5061
Production Control Managers	11-3051
Production Control Technologists	17-3026
Production Cost Estimators	13-1051
Production Engineers	17-2112
Production Machinists	51-4041
Production Schedulers	43-5061
Production Workers, All Other	51-9199
Production Workers, First-Line Supervisors	51-1011
Production Workers, Helpers	51-9198
Production, Planning, and Expediting Clerks	43-5061
Professor, Family Welfare Social Work	25-1113
Professors, Accounting	25-1011
Professors, Actuarial Science	25-1022
Professors, Advanced Nursing	25-1072
Professors, Aeronautical Engineering	25-1032
Professors, African History	25-1125
Professors, Agricultural Economics	25-1063
Professors, Agronomy	25-1041
Professors, American History	25-1125
Professors, Aquaculture and Fisheries	25-1041
Professors, Architectural Design	25-1031
Professors, Astrophysics	25-1054
Professors, Bacteriology	25-1042
Professors, Ballet	25-1121
Professors, Ballistics	25-1054
Professors, Biochemistry	25-1042
Professors, Botany	25-1042
Professors, Calculus	25-1022
Professors, Cartography	25-1064
Professors, Child Development	25-1066
Professors, Chinese Language	25-1124
Professors, Civil Engineering	25-1032
Professors, Climatology	25-1051
Professors, Clinical Nursing	25-1072
Professors, Comparative Sociology	25-1067
Professors, Computer Information Systems	25-1021
Professors, Constitutional Law	25-1112
Professors, Contemporary English Literature	25-1123
Professors, Cosmetology	25-1194
Professors, Creative Writing English	25-1123

Professors, Criminology	25-1111
Professors, Cultural Anthropology	25-1061
Professors, Divinity	25-1126
Professors, Eastern Philosophy	25-1126
Professors, Econometrics	25-1063
Professors, Educational Psychology	25-1066
Professors, Electrical Engineering	25-1032
Professors, Environmental Law	25-1112
Professors, Environmental Science, Management, and Policy	25-1053
Professors, Environmental Studies	25-1053
Professors, Ethnoarchaeology	25-1061
Professors, Ethnology	25-1062
Professors, Etymology	25-1123
Professors, Family and Consumer Sciences	25-1192
Professors, Farm Management	25-1041
Professors, Finance	25-1011
Professors, Forest Ecology	25-1043
Professors, Geology	25-1051
Professors, Geomatics	25-1064
Professors, Geriatric Social Work	25-1113
Professors, GIS	25-1064
Professors, Government	25-1065
Professors, Health Social Work	25-1113
Professors, Hydrodynamics	25-1054
Professors, Industrial/Organizational Psychology	25-1066
Professors, Information Technology	25-1021
Professors, Inorganic Chemistry	25-1052
Professors, International Relations	25-1065
Professors, Java Programming	25-1021
Professors, Jewish History	25-1125
Professors, Journalism	25-1122
Professors, Kinesiology	25-1193
Professors, Labor Economics	25-1063
Professors, Landscape Architecture	25-1031
Professors, Latin American Studies	25-1062
Professors, Leisure Studies	25-1193
Professors, Library and Information Science	25-1082
Professors, Marine Engineering	25-1032
Professors, Marketing	25-1011
Professors, Medical Records Library	25-1082
Professors, Nutrition	25-1071
Professors, Oceanography	25-1051
Professors, Organic Chemistry	25-1052
Professors, Paleology	25-1061
Professors, Penology	25-1111
Professors, Pharmacology	25-1071
Professors, Photography	25-1121
Professors, Physical Chemistry	25-1052
Professors, Physical Education (PE)	25-1193
Professors, Piano	25-1121
Professors, Primary Education	25-1081
Professors, Project Management	25-1199
Professors, Public Health	25-1071
Professors, Public Policy	25-1065
Professors, Public Speaking	25-1122
Professors, Registered Nursing	25-1072
Professors, Russian History	25-1125
Professors, Russian Language	25-1124
Professors, Spanish Literature	25-1124
Professors, Special Education	25-1081

Professors, Statistics	25-1022
Professors, Survey Research	25-1069
Professors, Theology	25-1126
Professors, Thermodynamics	25-1054
Professors, Timber Management	25-1043
Professors, Torts Law	25-1112
Professors, Urban Planning	25-1069
Professors, Weaving	25-1192
Professors, Wildlife Conservation	25-1043
Professors, Women's Studies	25-1062
Program Analysts	13-1111
Programmable Logic Controller Assemblers	51-2023
Programmers, Applications	15-1131
Programmers, Computer	15-1131
Programmers, Computer Numerically Controlled Machine Tool, Metal and Plastic	51-4012
Programmers, Metal Numerical Control	51-4012
Programmers, Metal Numerical Tool	51-4012
Programmers, Sheet Metal Computer Numerically Controlled (CNC)	51-4012
Programmers, Systems	15-1131
Programming Methodology and Languages Researchers	15-1111
Project Management Professors	25-1199
Projectionists, Motion Picture	39-3021
Projectionists, Movie	39-3021
Promoters, Peer Health	21-1094
Promotions Directors	11-2011
Promotions Managers	11-2011
Proofing, Digital	51-5111
Proofreaders	43-9081
Proofreaders and Copy Markers	43-9081
Proofreaders, Braille	43-9081
Property and Casualty Insurance Claims Examiners	13-1031
Property Appraisers	13-2021
Property Managers	11-9141
Property, Real Estate, and Community Association Managers	11-9141
Proposition Players	39-3019
Prospectors, Geophysical	19-4041
Prosthetics Technicians	51-9082
Prosthetists	29-2091
Prosthodontists	29-1024
Protective Service Workers, All Other	33-9099
Protective Service Workers, All Other, First-Line Supervisors	33-1099
Protector Plate Attachers	51-2041
Protectors, Wildlife and Game	33-3031
Protohistorians	19-3093
Providers, Daycare	39-9011
Provosts	11-9033
Pruners, Tree	37-3013
Psychiatric Aides	31-1013
Psychiatric Nurses	29-1141
Psychiatric Nursing Aides	31-1013
Psychiatric Orderlies	31-1013
Psychiatric Secretaries	43-6013
Psychiatric Social Workers	21-1023
Psychiatric Technician Assistants	31-1013
Psychiatric Technicians	29-2053
Psychiatrists	29-1066
Psychiatrists, Addiction	29-1066
Psychiatrists, Geriatric	29-1066
Psychological Operations Specialists	55-3019
Psychologists, All Other	19-3039

Psychologists, Child	19-3031
Psychologists, Clinical	19-3031
Psychologists, Counseling	19-3031
Psychologists, Engineering	19-3032
Psychologists, Forensic	19-3039
Psychologists, Human Resources	19-3032
Psychologists, Industrial-Organizational	19-3032
Psychologists, Management	19-3032
Psychologists, School	19-3031
Psychologists, Social	19-3039
Psychologists, Sports	19-3039
Psychologists, Vocational	19-3031
Psychology Teachers, Postsecondary	25-1066
Psychometrists, School	19-3031
Psychosocial Rehabilitation Counselors	21-1015
Public Address System and Other Announcers	27-3012
Public Address System Announcers	27-3012
Public Address System Mechanics	49-2094
Public Affairs Directors	11-2031
Public Defenders	23-1011
Public Health Educators	21-1091
Public Health Microbiologists	19-1022
Public Health Nutritionists	29-1031
Public Health Professors	25-1071
Public Health Social Workers	21-1022
Public Housing Interviewers	43-4061
Public Policy Professors	25-1065
Public Relations and Fundraising Managers	11-2031
Public Relations Managers	11-2031
Public Relations Specialists	27-3031
Public Safety Directors	11-9161
Public School Speech Therapists	29-1127
Public Speaking Professors	25-1122
Public Transit Bus Drivers	53-3021
Publicity Directors	11-2031
Publicity Writers	27-3031
Publishers, Desktop	43-9031
Publishers, Electronic	43-9031
Pullers, Seedling	45-4011
Pulmonary Physical Therapists	29-1123
Pulpwood Cutters	45-4021
Pulpwood Dealers	41-4012
Pulverizer Operators	51-9021
Pump Operators, Except Wellhead Pumpers	53-7072
Pumpers, Brewery	53-7072
Pumpers, Oil Well	53-7073
Pumpers, Wellhead	53-7073
Punching Machine Operators, Metal and Plastic	51-4031
Punching Machine Setters, Metal and Plastic	51-4031
Punching Machine Tenders, Metal and Plastic	51-4031
Purchasing Agents, Equipment, Supplies, and Tools	13-1023
Purchasing Agents, Except Wholesale, Retail, and Farm Products	13-1023
Purchasing Agents, Farm Products	13-1021
Purchasing Clerks	43-3061
Purchasing Directors	11-3061
Purchasing Managers	11-3061
Pursers, Ship	13-1199
Quarry Bosses	47-1011
Quarry Plug and Feather Drillers	47-5051
Quarry Rock Splitters	47-5051

Quilters	27-1012
Quilters, Hand	51-6051
Rabbis	21-2011
Race Book Writers	39-3012
Race Car Drivers	27-2021
Race Starters	27-2023
Radar and Sonar Technicians	55-3017
Radar Technicians	55-3017
Radial Drill Press Operators for Plastics	51-4032
Radiation Engineers	17-2161
Radiation Therapists	29-1124
Radiation Therapy Technologists	29-1124
Radio and Television Announcers	27-3011
Radio Announcers	27-3011
Radio Disk Jockeys	27-3011
Radio Equipment Installers	49-2021
Radio Equipment Repairers	49-2021
Radio Frequency Technicians	49-2021
Radio Mechanics	49-2021
Radio Officers	27-4013
Radio Operators	27-4013
Radio Station Managers	11-1021
Radio Time Buyers	13-1023
Radio, Cellular, and Tower Equipment Installers and Repairers	49-2021
Radiochemical Technicians	19-4051
Radioisotope Technologists	29-2033
Radiologic Technologists	29-2034
Radiology Equipment Servicers	49-9062
Radiophone Operators	27-4013
Rail Car Loaders	53-7121
Rail Car Repairers	49-3043
Rail Inspectors	53-6051
Rail Maintenance Workers	47-4061
Rail Signal Mechanics	49-9097
Rail Transportation Inspectors	53-6051
Rail Transportation Workers, All Other	53-4099
Rail Yard Engineers	53-4013
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Sheet Rock Tapers	47-2082
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Shills	39-3019
Shiners, Shoe	39-9099
Shingles Roofer Helpers	47-3016

Shingles Roofers	47-2181
Ship Engineers	53-5031
Ship Loaders	53-7121
Ship Pursers	13-1199
Ship Stewards	53-6061
Ship Unloaders	53-7121
Shipfitter Apprentices	51-4192
Shipfitters	51-4192
Shipping Agents, Freight	43-5011
Shipping Clerks	43-5071
Shipping, Receiving, and Traffic Clerks	43-5071
Shochets	51-3023
Shock-Absorption Floor Layers	47-2042
Shoe and Leather Workers and Repairers	51-6041
Shoe Machine Operators	51-6042
Shoe Machine Operators and Tenders	51-6042
Shoe Machine Tenders	51-6042
Shoe Repairers	51-6041
Shoe Shiners	39-9099
Shoe Workers	51-6041
Shoemakers	51-6041
Shooters, Seismograph	47-5031
Shoppers, Mystery	13-1199
Shoppers, Personal	41-9099
Short Order Cooks	35-2015
Shovel Operators	53-7032
Shrimp Pickers	51-3022
Shrimp Pond Laborers	45-2093
Shrub Planters	37-3011
Shuckers, Oyster	51-3022
Sightseeing Guides	39-7011
Sign Painters	51-9123
Signal and Track Switch Repairers	49-9097
Signal Repairers	49-9097
Silk Screen Etchers	51-9194
Silk Winding Machine Operators	51-6064
Silver Solderers	51-4121
Silverware Cleaners	35-9021
Singers	27-2042
Sitters, House	39-9099
Skein Yarn Dyers	51-6061
Sketch Artists	27-1013
Ski Lift Operators	39-3091
Ski Patrol	33-9092
Skincare Specialists	39-5094
Skip Tracers	33-9021
Skycaps	39-6011
Slate Roofer Helpers	47-3016
Slaughterers	51-3023
Slaughterers and Meat Packers	51-3023
Slaughterers, Poultry	51-3023
Slicing Machine Operators	51-9032
Slicing Machine Setters	51-9032
Slicing Machine Tenders	51-9032
Slingers, Rigging	45-4029
Slip Bridge Operators	53-6011
Slitters, Metal	51-4031
Slot Attendants	41-2012
Slot Key Persons	39-1012
Slot Machine Mechanics	49-9091

Slot Operations Directors	11-9071
Slot Supervisors	39-1012
Slubber Machine Operators	51-6064
Small Engine Mechanics, Other	49-3053
Smelter Operators	51-4051
Smoke Jumpers	33-2011
Smokehouse Workers	51-3091
Smokers, Fish	51-3091
Snack Bar Attendants	35-3022
Social and Community Service Managers	11-9151
Social and Human Service Assistants	21-1093
Social Psychologists	19-3039
Social Science Managers	11-9199
Social Science Research Assistants	19-4061
Social Science Technicians, All Other	19-4099
Social Sciences Teachers, Postsecondary, All Other	25-1069
Social Scientists and Related Workers, All Other	19-3099
Social Service Assistants	21-1093
Social Service Managers	11-9151
Social Service Specialists, All Other	21-1099
Social Work Teachers, Postsecondary	25-1113
Social Workers, All Other	21-1029
Social Workers, Certified Children, Youth, and Family	21-1021
Social Workers, Child	21-1021
Social Workers, Community Mental Health	21-1023
Social Workers, Criminal Justice	21-1029
Social Workers, Drug Abuse	21-1023
Social Workers, Family	21-1021
Social Workers, Forensic	21-1029
Social Workers, Healthcare	21-1022
Social Workers, Hospice	21-1022
Social Workers, Mental Health	21-1023
Social Workers, Oncology	21-1022
Social Workers, Psychiatric	21-1023
Social Workers, Public Health	21-1022
Social Workers, School	21-1021
Social Workers, Sexual Assault	21-1029
Social Workers, Substance Abuse	21-1023
Sociologists	19-3041
Sociologists, Family	19-3041
Sociologists, Rural	19-3041
Sociology Teachers, Postsecondary	25-1067
Software Applications Architects	15-1132
Software Applications Engineers	15-1132
Software Developers, Applications	15-1132
Software Developers, Embedded Systems	15-1133
Software Developers, Systems Software	15-1133
Software Systems Developers	15-1133
Software Systems Engineers	15-1133
Soil and Plant Scientists	19-1013
Soil Conservation Technicians	19-4093
Soil Conservationists	19-1031
Soil Engineers	17-2081
Soil Scientists	19-1013
Solar Panel Installation Supervisors	47-1011
Solar Photovoltaic Electricians	47-2111
Solar Photovoltaic Installers	47-2231
Solar PV Electricians	47-2111
Solar PV Installers	47-2231
Solar Thermal Installers	47-2152

Solderers	51-4121
Solderers, Silver	51-4121
Soldering Machine Operators	51-4122
Soldering Machine Setters	51-4122
Soldering Machine Tenders	51-4122
Solicitors, Membership	41-3099
Solicitors, Telephone	41-9041
Sonar Subsystem Equipment Operators	55-3017
Sonar Technicians	55-3017
Songwriters	27-2041
Sonographers, Diagnostic Medical	29-2032
Sonographers, Registered Diagnostic Medical	29-2032
Sorters	51-9061
Sorters, Agricultural Products	45-2041
Sorters, Fruit	45-2041
Sorters, Laundry	51-6011
Sound Editors	27-4014
Sound Effects Technicians	27-4014
Sound Engineering Technicians	27-4014
Sous Chefs	35-1011
Souvenir Street Vendors	41-9091
Space Sciences Teachers, Postsecondary	25-1051
Space Scientists	19-2021
Space Systems Operations Craftsmen	55-3017
Spanish Literature Professors	25-1124
Special Education Bus Drivers	53-3022
Special Education Classroom Aides	25-9041
Special Education Curriculum Specialists	25-9031
Special Education Kindergarten Teachers	25-2052
Special Education Professors	25-1081
Special Education Teachers for Adults with Disabilities	25-2059
Special Education Teachers, All Other	25-2059
Special Education Teachers, Elementary School	25-2052
Special Education Teachers, Kindergarten	25-2052
Special Education Teachers, Kindergarten and Elementary School	25-2052
Special Education Teachers, Middle School	25-2053
Special Education Teachers, Preschool	25-2051
Special Education Teachers, Secondary School	25-2054
Special Effects Artists	27-1014
Special Effects Makeup Artists	39-5091
Special Forces	55-3018
Special Forces Officers	55-1017
Special Forces Weapons Sergeants	55-3018
Special Project Airborne Electronics Evaluators	55-1011
Special Technical Operations Officers	55-1019
Specialists, Airborne and Air Delivery	55-3011
Specialists, Aircraft Engine	49-3011
Specialists, Aircraft Launch	55-3012
Specialists, Aircraft Recovery	55-3012
Specialists, Airfield Operations	53-2022
Specialists, Audio-Visual Collections	25-9011
Specialists, Auto Transmission	49-3023
Specialists, Aviation Operations	53-2022
Specialists, Benefits	13-1141
Specialists, Biodiesel Engine	49-3031
Specialists, Business Operations, All Other	13-1199
Specialists, Clinical Nurse	29-1141
Specialists, Command Center	55-3015
Specialists, Community Service, All Other	21-1099
Specialists, Compensation	13-1141

Specialists, Computer Network Support	15-1152
Specialists, Computer Security	15-1122
Specialists, Computer Training	13-1151
Specialists, Computer User Support	15-1151
Specialists, Control Center	55-3015
Specialists, Correctional Treatment	21-1092
Specialists, Curriculum	25-9031
Specialists, Database Management System	15-1141
Specialists, Desktop Publishing	43-9031
Specialists, Desktop Support	15-1151
Specialists, Development	13-1151
Specialists, Diesel Engine	49-3031
Specialists, Educational	25-9031
Specialists, Electronic Warfare	55-3019
Specialists, Employee Benefits	13-1141
Specialists, Employee Relations	13-1075
Specialists, End-User Support	15-1151
Specialists, Environmental, Including Health	19-2041
Specialists, Family Resource Management Specialist	25-9021
Specialists, Financial, All Other	13-2099
Specialists, Forest Fire Prevention	33-2022
Specialists, Government Affairs	19-3094
Specialists, Ground Operations	55-3016
Specialists, Hearing Aid	29-2092
Specialists, Hearing Instrument	29-2092
Specialists, Helicopter Engine	49-3011
Specialists, Home Mortgage Disclosure Act	13-2061
Specialists, Human Resources	13-1071
Specialists, Internet Security	15-1122
Specialists, Job Analysis	13-1141
Specialists, Labor Relations	13-1075
Specialists, Landing Support	55-3019
Specialists, Library Media	25-9011
Specialists, Logistics	13-1081
Specialists, Market Research	13-1161
Specialists, Marketing	13-1161
Specialists, Medical Records	29-2071
Specialists, Military Enlisted Tactical Operations and Air/Weapons Specialists, All Other	55-3019
Specialists, Multimedia Collections	25-9011
Specialists, Network Diagnostic Support	15-1152
Specialists, OB	29-1064
Specialists, Occupational Health	29-9011
Specialists, Occupational Safety	29-9011
Specialists, Orthopedic Cast	31-9092
Specialists, Photo Lab	51-9151
Specialists, Psychological Operations	55-3019
Specialists, Public Relations	27-3031
Specialists, Research Public Health	19-1042
Specialists, Retirement Plan	13-1141
Specialists, Scalp Treatment	39-5093
Specialists, Skincare	39-5094
Specialists, Social Service, All Other	21-1099
Specialists, Special Education Curriculum	25-9031
Specialists, Sterilization	31-9093
Specialists, Therapeutic Recreation	29-1125
Specialists, Timber Management	19-1032
Specialists, Training	13-1151
Specialists, Tree	37-3013
Specialists, Wildfire Prevention	33-2022
Specialists, Workforce Development	13-1151

Specifications Writers	27-3042
Speech Clinicians	29-1127
Speech Therapists	29-1127
Speech-Language Pathologists	29-1127
Speedboat Operators	53-5022
Spike Machine Operators	51-4022
Spinning Doffers	53-7063
Splicers, Telephone Cable	49-9052
Splitters, Sandstone	47-5051
Sporting Officials	27-2023
Sporting Referees	27-2023
Sports and Related Workers, All Other	27-2099
Sports Book Runners	39-3012
Sports Book Writers	39-3012
Sports Competitors	27-2021
Sports Officials, Other	27-2023
Sports Psychologists	19-3039
Spotlight Operators	27-4099
Sprayers, Fruit	37-3012
Sprayers, Pesticide, Vegetation	37-3012
Sprayers, Rock Dust	47-5049
Sprayers, Weed	37-3012
Spraying Machine Operators	51-9121
Spraying Machine Setters	51-9121
Spraying Machine Tenders	51-9121
Sprinkler Fitters	47-2152
Sprinklerfitters	47-2152
Stacker Operators	53-7051
Staffing Coordinators	13-1071
Staffs, Housekeeping	37-2012
Stage Electrician Helpers	47-3013
Stage Managers	27-2012
Stage Scenery Designers	27-1027
Stage Technicians	27-3099
Stained Glass Joiners	47-2121
Starters, Race	27-2023
State Troopers	33-3051
Statement Processors	43-3021
Stationary Engineers	51-8021
Stationary Engineers and Boiler Operators	51-8021
Statistical Analysts	15-2041
Statistical Assistants	43-9111
Statistical Clerks	43-9111
Statisticians	15-2041
Statisticians, Mathematical	15-2041
Statisticians, Survey	15-2041
Statisticians, Time Study	15-2041
Statistics Professors	25-1022
Steam Plant Control Room Operators	51-8012
Steam Shovel Operators	47-2073
Steam Turbine Assemblers	51-2031
Steamfitters	47-2152
Steamfitters Helpers	47-3015
Steel Pourers	51-4052
Steel Rod Busters	47-2171
Steel Rollers	51-4023
Stenographers, Court	23-2091
Stenographers, Medical	31-9094
Sterilization Specialists	31-9093
Stewards, Kitchen	35-9099

Stewards, Ship	53-6061
Stewards, Wine	35-3031
Still Machine Operators	51-9012
Still Machine Setters	51-9012
Still Machine Tenders	51-9012
Stitchers	51-6051
Stitchers, Hand	51-6051
Stock Brokers	41-3031
Stock Clerks	43-5081
Stock Clerks and Order Fillers	43-5081
Stock Movers, Hand	53-7062
Stone Spreader Operators	47-2071
Stonemasons	47-2022
Stonemasons Helpers	47-3011
Storage Managers	11-3071
Store Detectives	33-9021
Store Gift Wrap Associates	41-9099
Store Receiving Clerks	43-5071
Straighteners, Auto Bumper	49-3021
Stratigraphers	19-2042
Street Cleaning Equipment Operators	53-3099
Street Vendors	41-9091
Streetcar Operators	53-4041
Streetcar Repairers	49-3043
Structural Architects	17-1011
Structural Drafters	17-3011
Structural Engineering Technicians	17-3022
Structural Engineers	17-2051
Structural Iron and Steel Workers	47-2221
Structural Iron Workers	47-2221
Structural Metal Fabricators	51-2041
Structural Metal Fabricators and Fitters	51-2041
Structural Metal Fitters	51-2041
Structural Steel Workers	47-2221
Stucco Masons	47-2161
Stucco Masons Helpers	47-3014
Stucco Workers	47-2161
Student Admissions Clerks	43-4199
Student Development Advisors	21-1012
Stuffers, Envelope	43-9199
Stylists, Wig	39-5012
Subscription Clerks	43-4151
Substance Abuse and Behavioral Disorder Counselors	21-1011
Substance Abuse Counselors	21-1011
Substance Abuse Social Workers	21-1023
Substation Electrical and Electronics Repairers	49-2095
Substation Operators	51-8012
Substitute Teachers	25-3099
Subway and Streetcar Operators	53-4041
Subway Car Repairers	49-3043
Subway Operators	53-4041
Sugar Pressers	51-9041
Superintendents, Airborne Mission Systems	55-2011
Superintendents, Command Post	55-2013
Superintendents, Construction	11-9021
Superintendents, General	11-1021
Superintendents, Mail	11-9131
Supervising Fire Marshals	33-1021
Supervisors, Air Cargo Ground Crew	53-1011
Supervisors, Air Cargo Ground Operations	53-1011

Supervisors, Aircraft Cargo Handling	53-1011
Supervisors, Airport Ramp	53-1011
Supervisors, Animal Cruelty Investigation	33-1099
Supervisors, Animal Trainer	39-1021
Supervisors, Assembly Line	51-1011
Supervisors, Automobile Body Repair	49-1011
Supervisors, Banquet	35-1012
Supervisors, Building Cleaning	37-1011
Supervisors, Cardroom	39-1011
Supervisors, Carpenter	47-1011
Supervisors, Cashier	41-1011
Supervisors, Casino Slot	39-1012
Supervisors, Cleaning Staff	37-1011
Supervisors, Clerical	43-1011
Supervisors, Cranberry Bog	45-1011
Supervisors, Custodial	37-1011
Supervisors, Dock Operations	53-1031
Supervisors, Electronic Gaming Device	39-1012
Supervisors, Fish Hatchery	45-1011
Supervisors, Fleet Maintenance	49-1011
Supervisors, Gaming	39-1011
Supervisors, Gas Station	53-1031
Supervisors, Grounds Maintenance	37-1012
Supervisors, Horticultural Services	37-1012
Supervisors, Insurance Sales	41-1012
Supervisors, Kitchen	35-1012
Supervisors, Machinist	51-1011
Supervisors, Material Handling Crew	53-1021
Supervisors, Municipal Fire Fighting and Prevention	33-1021
Supervisors, Payroll	43-1011
Supervisors, Postal	11-9131
Supervisors, Printing Worker	51-1011
Supervisors, Prison Guard	33-1011
Supervisors, Railroad Car Repair	49-1011
Supervisors, Real Estate Sales	41-1012
Supervisors, Recreation Attendant	39-1021
Supervisors, Refuse Collector	53-1031
Supervisors, Rig	47-1011
Supervisors, Security Guard	33-1099
Supervisors, Slot	39-1012
Supervisors, Solar Panel Installation	47-1011
Supervisors, Surface Ship USW	55-2013
Supervisors, Table Games	39-1011
Supervisors, Telemarketer	41-1012
Supervisors, Teller	43-1011
Supervisors, Transportation Security Administration (TSA) Screener	33-1099
Supervisors, Warehouse	53-1021
Surface Hydrologists	19-2043
Surface Ship USW Supervisors	55-2013
Surfacing Equipment Operators	47-2071
Surgeons	29-1067
Surgeons, All Other	29-1069
Surgeons, Animal	29-1131
Surgeons, Cardiovascular	29-1067
Surgeons, Dental	29-1022
Surgeons, Maxillofacial	29-1022
Surgeons, Oral	29-1022
Surgeons, Orthopedic	29-1067
Surgeons, Plastic	29-1067
Surgeons, Thoracic	29-1067

Surgeons, Tree	37-3013
Surgical Instrument Mechanics	49-9062
Surgical Instruments Sales Representatives	41-4011
Surgical Orderlies	31-1015
Surgical Scrub Technologists	29-2055
Surgical Technologists	29-2055
Surveillance Officers, Gaming	33-9031
Survey Methodologists	19-3022
Survey Questionnaire Designers	19-3022
Survey Research Professors	25-1069
Survey Researchers	19-3022
Survey Statisticians	15-2041
Surveying and Mapping Technicians	17-3031
Surveying Technicians	17-3031
Surveyors	17-1022
Surveyors, Geodetic	17-1022
Surveyors, Land	17-1022
Surveyors, Mineral	17-1022
Swager Operators	51-4022
Swedish Masseuses	31-9011
Sweepers, Chimney	37-2019
Swimmers, Combatant (SEAL)	55-3018
Swimming Pool Plasterers	47-2161
Switch Couplers	53-4021
Switchboard Operators, Including Answering Service	43-2011
Switchers, Railcar	53-4013
Synchronous Motor Assemblers	51-2023
Synthetic Fibers Extruding and Forming Machine Setters, Operators, and Tenders	51-6091
Synthetic Filament Extruders	51-6091
System Operators, All Other	51-8099
Systems Architects	15-1121
Systems Programmers	15-1131
Systems Software, Software Developers	15-1133
Table Games Managers	11-9071
Table Games Supervisors	39-1011
Tailors	51-6052
Tailors, Alterations	51-6052
Tailors, Dressmakers, and Custom Sewers	51-6052
Takers, Census	43-4111
Takers, Unemployment Benefits Claims	43-4061
Talk Show Hosts	27-3011
Tampers, Form	47-2071
Tamping Equipment Operators	47-2071
Tamping Machine Operators	47-2071
Tank Car Loaders	53-7121
Tank Car, Truck, and Ship Loaders	53-7121
Tank Officers	55-1013
Tap Dancers	27-2031
Tapers	47-2082
Tapers, Coil	51-2021
Tapers, Drywall	47-2082
Tapers, Sheet Rock	47-2082
Tapers, Wall	47-2082
Taproom Attendants	35-3011
Targeting Acquisition Officers	55-1014
Tattoo Artists	27-1019
Tavern Operators	11-9051
Tax Assessors	13-2021
Tax Collectors	13-2081
Tax Examiners	13-2081

Tax Examiners and Collectors, and Revenue Agents	13-2081
Tax Investigators	13-2081
Tax Preparers	13-2082
Taxi Drivers	53-3041
Taxi Drivers and Chauffeurs	53-3041
Taxicab Dispatchers	43-5032
Taxonomists, Life Science	19-1099
Teacher Assistants	25-9041
Teachers and Instructors, All Other	25-3099
Teachers, 4th Grade Math	25-2021
Teachers, 7th Grade Social Studies	25-2022
Teachers, Adult Basic and Secondary Education	25-3011
Teachers, Adult Education	25-3011
Teachers, Adult Literacy	25-3011
Teachers, Agricultural Sciences, Postsecondary	25-1041
Teachers, All Other	25-3099
Teachers, American Sign Language	25-1124
Teachers, Anthropology, Postsecondary	25-1061
Teachers, Archeology, Postsecondary	25-1061
Teachers, Architecture, Postsecondary	25-1031
Teachers, Area Studies, Postsecondary	25-1062
Teachers, Art, Postsecondary	25-1121
Teachers, Atmospheric Sciences, Postsecondary	25-1051
Teachers, Bilingual Kindergarten	25-2012
Teachers, Biological Science, Postsecondary	25-1042
Teachers, Business, Postsecondary	25-1011
Teachers, Career/Technical Education, Middle School	25-2023
Teachers, Career/Technical Education, Secondary School	25-2032
Teachers, Chemical Engineering	25-1032
Teachers, Chemistry, Postsecondary	25-1052
Teachers, Citizenship	25-3021
Teachers, Civil Engineering	25-1032
Teachers, Communications, Postsecondary	25-1122
Teachers, Computer Science, Postsecondary	25-1021
Teachers, Conservation Science, Postsecondary	25-1043
Teachers, Criminal Justice, Postsecondary	25-1111
Teachers, Cultural Studies, Postsecondary	25-1062
Teachers, Drama, Postsecondary	25-1121
Teachers, Early Childhood Special Education	25-2051
Teachers, Earth Sciences, Postsecondary	25-1051
Teachers, Economics, Postsecondary	25-1063
Teachers, Education, Postsecondary	25-1081
Teachers, Electrical Engineering	25-1032
Teachers, Elementary School, Except Special Education	25-2021
Teachers, Engineering, Postsecondary	25-1032
Teachers, English Language, Postsecondary	25-1123
Teachers, English Literature, Postsecondary	25-1123
Teachers, Environmental Science, Postsecondary	25-1053
Teachers, Ethnic Studies, Postsecondary	25-1062
Teachers, Fitness Studies, Postsecondary	25-1193
Teachers, Foreign Language, Postsecondary	25-1124
Teachers, Foreign Literature, Postsecondary	25-1124
Teachers, Forestry Science, Postsecondary	25-1043
Teachers, General Educational Development (GED)	25-3011
Teachers, Geography, Postsecondary	25-1064
Teachers, Head Start	25-2011
Teachers, Health Specialties, Postsecondary	25-1071
Teachers, High School Auto Repair	25-2032
Teachers, High School English	25-2031
Teachers, High School French	25-2031

Teachers, High School History	25-2031
Teachers, High School Learning Support	25-2054
Teachers, High School Special Education	25-2054
Teachers, High School Vocational Education	25-2032
Teachers, History, Postsecondary	25-1125
Teachers, Home Economics, Postsecondary	25-1192
Teachers, Industrial Engineering	25-1032
Teachers, Junior High School	25-2022
Teachers, Kindergarten, Except Special Education	25-2012
Teachers, Law Enforcement, Postsecondary	25-1111
Teachers, Law, Postsecondary	25-1112
Teachers, Library Science, Postsecondary	25-1082
Teachers, Marine Sciences, Postsecondary	25-1051
Teachers, Mathematical Science, Postsecondary	25-1022
Teachers, Mechanical Engineering	25-1032
Teachers, Middle School Science	25-2022
Teachers, Middle School Special Education	25-2053
Teachers, Middle School Vocational Education	25-2023
Teachers, Middle School, Except Special and Career/Technical Education	25-2022
Teachers, Middle School, Students with Moderate Intellectual Disabilities	25-2053
Teachers, Military Science	25-1199
Teachers, Mineral Engineering	25-1032
Teachers, Music, Postsecondary	25-1121
Teachers, Nursery School	25-2011
Teachers, Nursing, Postsecondary	25-1072
Teachers, Petroleum Engineering	25-1032
Teachers, Philosophy, Postsecondary	25-1126
Teachers, Physics, Postsecondary	25-1054
Teachers, Political Science, Postsecondary	25-1065
Teachers, Postsecondary, All Other	25-1199
Teachers, Pre-Kindergarten	25-2011
Teachers, Pre-Kindergarten Special Education	25-2051
Teachers, Preschool, Except Special Education	25-2011
Teachers, Psychology, Postsecondary	25-1066
Teachers, Recreation Studies, Postsecondary	25-1193
Teachers, Religion, Postsecondary	25-1126
Teachers, Secondary School, Except Special and Career/Technical Education	25-2031
Teachers, Self-Enrichment Education	25-3021
Teachers, Severe Emotional Disorders Elementary School	25-2052
Teachers, Social Sciences, Postsecondary, All Other	25-1069
Teachers, Social Work, Postsecondary	25-1113
Teachers, Sociology, Postsecondary	25-1067
Teachers, Space Sciences, Postsecondary	25-1051
Teachers, Special Education Kindergarten	25-2052
Teachers, Special Education Middle School	25-2053
Teachers, Special Education, Adults with Disabilities	25-2059
Teachers, Special Education, All Other	25-2059
Teachers, Special Education, Elementary School	25-2052
Teachers, Special Education, Kindergarten	25-2052
Teachers, Special Education, Preschool	25-2051
Teachers, Special Education, Secondary School	25-2054
Teachers, Substitute	25-3099
Teachers, Vocational Education, Postsecondary	25-1194
Teaching Assistants, Graduate	25-1191
Teaching Fellows	25-1191
Team Assemblers	51-2092
Team Assembly Line Machine Operators	51-2092
Team Automobile Assemblers	51-2092
Technical Editors	27-3041
Technical Writers	27-3042

Technicians Audio Equipment	27-4011
Technicians, Aerospace Engineering	17-3021
Technicians, Aerospace Operations	17-3021
Technicians, Agricultural Engineering	17-3029
Technicians, Agricultural Science	19-4011
Technicians, Air Analysis Engineering	17-3025
Technicians, Aircraft Launch and Recovery Equipment Maintenance	55-3012
Technicians, Airdrop Systems	55-1011
Technicians, All Terrain Vehicle	49-3052
Technicians, Altitude Chamber	17-3021
Technicians, Automotive Brake	49-3023
Technicians, Avionics	49-2091
Technicians, Bacteriology	19-4021
Technicians, Behavioral Health	29-2053
Technicians, Biological	19-4021
Technicians, Biomedical Engineering	17-3029
Technicians, Biomedical Equipment	49-9062
Technicians, Broadcast	27-4012
Technicians, C2 Tactical Analysis	55-3015
Technicians, Cardiovascular	29-2031
Technicians, Cartographic	17-3031
Technicians, Central Sterile Supply	31-9093
Technicians, Certified Pharmacy	29-2052
Technicians, Certified Respiratory Therapy	29-2054
Technicians, Chemical	19-4031
Technicians, Chemical Laboratory	19-4031
Technicians, Civil Computer-Aided Design and Drafting	17-3011
Technicians, Civil Engineering	17-3022
Technicians, Clinical Laboratory	29-2012
Technicians, Clock Repair	49-9064
Technicians, Computer Laboratory	15-1199
Technicians, Conservation	19-4093
Technicians, Construction Health and Safety	29-9012
Technicians, Crime Scene	19-4092
Technicians, Crown and Bridge	51-9081
Technicians, Dental Laboratory	51-9081
Technicians, Dialysis	29-2099
Technicians, Dietary	29-2051
Technicians, Dietetics	29-2051
Technicians, EKG	29-2031
Technicians, Electrical Computer-Aided Design and Drafting	17-3012
Technicians, Electrical Design	17-3023
Technicians, Electrical Engineering	17-3023
Technicians, Electro-Mechanical	17-3024
Technicians, Electronics Engineering	17-3023
Technicians, Emergency Medical	29-2041
Technicians, Engineering, Except Drafters, All Other	17-3029
Technicians, Environmental Engineering	17-3025
Technicians, Environmental Protection, Including Health	19-4091
Technicians, Environmental Remediation Engineering	17-3025
Technicians, Environmental Science, Including Health	19-4091
Technicians, Ergonomics	29-9012
Technicians, Expeditionary Airfield Systems	55-3012
Technicians, Explosive	47-5031
Technicians, Feed Research	19-4011
Technicians, Field Map	17-3031
Technicians, Fishing-Tool	47-5013
Technicians, Flight Data	17-3021
Technicians, Food Science	19-4011
Technicians, Forensic Science	19-4092

Technicians, Forest	19-4093
Technicians, Geological	19-4041
Technicians, Geotechnical Engineering	17-3022
Technicians, GIS Mapping	17-3031
Technicians, Groundwater Monitoring	19-4091
Technicians, Gyroscope Engineering	17-3027
Technicians, Health Information	29-2071
Technicians, Health Information Systems	29-2071
Technicians, Health, All Other	29-2099
Technicians, Hearing Aid	29-2092
Technicians, Heat Transfer	17-3027
Technicians, Help Desk	15-1151
Technicians, Highway Engineering	17-3022
Technicians, Highway Traffic Control	53-6041
Technicians, Histology	29-2012
Technicians, Industrial Engineering	17-3026
Technicians, Infectious Waste	19-4091
Technicians, Inorganic Chemical	19-4031
Technicians, Legal	23-2099
Technicians, Library	25-4031
Technicians, Library Acquisitions	25-4031
Technicians, Library Circulation	25-4031
Technicians, Life Science, All Other	19-4099
Technicians, Light Rail Signal	49-9097
Technicians, Lighting Engineering	17-3023
Technicians, Mapping	17-3031
Technicians, Marine Diesel	49-3031
Technicians, Marine Fisheries	19-4021
Technicians, Mathematical	15-2091
Technicians, Mathematical Engineering	15-2091
Technicians, Mechanical Engineering	17-3027
Technicians, Medical Appliance	51-9082
Technicians, Medical Laboratory	29-2012
Technicians, Medical Records	29-2071
Technicians, Mental Health	29-2053
Technicians, Metallurgical Engineering	17-3029
Technicians, Motion Study	17-3026
Technicians, Museum	25-4013
Technicians, Museum Exhibit	25-4013
Technicians, Nail	39-5092
Technicians, Network	15-1152
Technicians, Network Support	15-1152
Technicians, Nuclear	19-4051
Technicians, Nuclear Monitoring	19-4051
Technicians, Occupational Health	29-9012
Technicians, Occupational Safety	29-9012
Technicians, Ophthalmic Medical	29-2057
Technicians, Ophthalmic Medical	51-9083
Technicians, Optical Engineering	17-3029
Technicians, Optomechanical	17-3027
Technicians, Orthodontic	51-9081
Technicians, Orthotics	51-9082
Technicians, Oxygen Therapy	29-2054
Technicians, Pathology	29-2012
Technicians, Petroleum	19-4041
Technicians, Pharmacist	29-2052
Technicians, Pharmacy	29-2052
Technicians, Phlebotomy	31-9097
Technicians, Photographic Equipment	49-9061
Technicians, Photovoltaic (PV) Installation	47-2231

Technicians, Physical Science, All Other	19-4099
Technicians, Podiatric	29-9099
Technicians, Pollution Control	19-4091
Technicians, Pollution Control Engineering	17-3025
Technicians, Prepress	51-5111
Technicians, Prosthetics	51-9082
Technicians, Psychiatric	29-2053
Technicians, Radar	55-3017
Technicians, Radio Frequency	49-2021
Technicians, Radiochemical	19-4051
Technicians, Registered Diet	29-2051
Technicians, Relay	49-2095
Technicians, Remotely Piloted Vehicle Engineering	17-3024
Technicians, Respiratory Therapy	29-2054
Technicians, Robotics Testing	17-3024
Technicians, Semiconductor Development	17-3023
Technicians, Serology	29-2012
Technicians, Social Science, All Other	19-4099
Technicians, Soil Conservation	19-4093
Technicians, Sonar	55-3017
Technicians, Sound Effects	27-4014
Technicians, Sound Engineering	27-4014
Technicians, Stage	27-3099
Technicians, Structural Engineering	17-3022
Technicians, Surveying	17-3031
Technicians, Timber Management	19-4093
Technicians, Time Study	17-3026
Technicians, Trace Evidence	19-4092
Technicians, Traffic	53-6041
Technicians, Traffic Signal	53-6041
Technicians, Transportation	53-6041
Technicians, Two-Way Radio	49-2021
Technicians, Veterinary	29-2056
Technicians, Veterinary Laboratory	29-2056
Technicians, Video Equipment	27-4011
Technicians, Waste Minimization	19-4091
Technicians, Wildlife	19-4021
Technicians, Wind Energy	49-9081
Technicians, Wind Tunnel	17-3021
Technicians, X-Ray	29-2034
Technologists, Blood Bank Laboratory	29-2011
Technologists, Cardiac Catheterization	29-2031
Technologists, Cardiovascular	29-2031
Technologists, Certified Nuclear Medicine	29-2033
Technologists, Certified Surgical	29-2055
Technologists, Clinical Laboratory	29-2011
Technologists, Computed Tomography/Magnetic Resonance Imaging (CT/MRI)	29-2035
Technologists, Cytogenetic	29-2011
Technologists, Dairy	19-4011
Technologists, Electroencephalogram (EEG)	29-2099
Technologists, Electroneurodiagnostic	29-2099
Technologists, Food	19-1012
Technologists, Health, All Other	29-2099
Technologists, Magnetic Resonance Imaging	29-2035
Technologists, Medical Laboratory	29-2011
Technologists, MRI	29-2035
Technologists, Nuclear Cardiology	29-2033
Technologists, Nuclear Medicine	29-2033
Technologists, Occupational Health and Safety (OHST)	29-9012
Technologists, Ocular Care	29-2057

Technologists, Ophthalmic	29-2057
Technologists, Production Control	17-3026
Technologists, Radiation Therapy	29-1124
Technologists, Radioisotope	29-2033
Technologists, Radiologic	29-2034
Technologists, Surgical	29-2055
Technologists, Surgical Scrub	29-2055
Technologists, Ultrasound	29-2032
Technologists, Vascular	29-2031
Technologists, Veterinary	29-2056
Technologists, Veterinary Surgery	29-2056
Techs, Operating Room (OR)	29-2055
Techs, Polysomnograph	29-2099
Telecommunication Engineers	17-2072
Telecommunications Equipment Installers and Repairers, Except Line Installers	49-2022
Telecommunications Equipment Installers, Except Line Installers	49-2022
Telecommunications Equipment Repairers, Except Line Installers	49-2022
Telecommunications Line Installers	49-9052
Telecommunications Line Installers and Repairers	49-9052
Telecommunications Line Repairers	49-9052
Telemarketer Supervisors	41-1012
Telemarketers	41-9041
Telemarketing Sales Representatives	41-9041
Telephone Answering Service Operators	43-2011
Telephone Cable Splicers	49-9052
Telephone Operators	43-2021
Telephone Solicitors	41-9041
Telephone Switchboard Operators	43-2011
Telescope Repairers	49-9069
Television Announcers	27-3011
Television Camera Operators	27-4031
Television News Video Editors	27-4032
Television Station Managers	11-1021
Television Writers	27-3043
Teller Supervisors	43-1011
Tellers	43-3071
Tellers, Mutuel	41-2012
Tellers, Securities	43-3071
Temperers, Wire	51-4191
Template Makers	51-4061
Tenders, Adhesive Bonding Machine	51-9191
Tenders, Blending Machine	51-9023
Tenders, Boring Machine Tool, Metal and Plastic	51-4032
Tenders, Brazing Machine	51-4122
Tenders, Bridge	53-6011
Tenders, Buffing Machine Tool, Metal and Plastic	51-4033
Tenders, Casting Machine, Metal and Plastic	51-4072
Tenders, Chemical Equipment	51-9011
Tenders, Chiller	51-9193
Tenders, Clarifying Machine	51-9012
Tenders, Cleaning Equipment	51-9192
Tenders, Coating Machine	51-9121
Tenders, Coating Machine, Metal and Plastic	51-4193
Tenders, Compacting Machine	51-9041
Tenders, Conveyors	53-7011
Tenders, Cooling Equipment	51-9193
Tenders, Coremaking Machine, Metal and Plastic	51-4072
Tenders, Crushing Machine	51-9021
Tenders, Cutting Machine	51-9032
Tenders, Cutting Machine, Metal and Plastic	51-4031

Tenders, Drawing Machine, Metal and Plastic	51-4021
Tenders, Drier	51-9051
Tenders, Drilling Machine Tool, Metal and Plastic	51-4032
Tenders, Extruding Machine	51-9041
Tenders, Extruding Machine, Metal and Plastic	51-4021
Tenders, Extruding Machine, Synthetic and Glass Fibers	51-6091
Tenders, Fiber Machine	51-6091
Tenders, Filling Machine	51-9111
Tenders, Filtering Machine	51-9012
Tenders, Food Baking Machine	51-3091
Tenders, Food Cooking Machine	51-3093
Tenders, Food Drying Machine	51-3091
Tenders, Food Roasting Machine	51-3091
Tenders, Forging Machine, Metal and Plastic	51-4022
Tenders, Forming Machine	51-9041
Tenders, Forming Machine, Synthetic and Glass Fibers	51-6091
Tenders, Freezing Equipment	51-9193
Tenders, Furnace	51-9051
Tenders, Grinding Machine	51-9021
Tenders, Grinding Machine Tool, Metal and Plastic	51-4033
Tenders, Heat Treating Equipment, Metal and Plastic	51-4191
Tenders, Kettle	51-9051
Tenders, Kiln	51-9051
Tenders, Lapping Machine Tool, Metal and Plastic	51-4033
Tenders, Lathe Machine Tool, Metal and Plastic	51-4034
Tenders, Lock	53-6011
Tenders, Metal Pickling Equipment	51-9192
Tenders, Metal-Refining Furnace	51-4051
Tenders, Milling Machine, Metal and Plastic	51-4035
Tenders, Mixing Machine	51-9023
Tenders, Molding Machine, Metal and Plastic	51-4072
Tenders, Multiple Machine Tool, Metal and Plastic	51-4081
Tenders, Oven	51-9051
Tenders, Packaging Machine	51-9111
Tenders, Painting Machine	51-9121
Tenders, Paper Goods Machine	51-9196
Tenders, Planing Machine, Metal and Plastic	51-4035
Tenders, Plating Machine, Metal and Plastic	51-4193
Tenders, Polishing Machine	51-9021
Tenders, Polishing Machine Tool, Metal and Plastic	51-4033
Tenders, Precipitating Machine	51-9012
Tenders, Press Machine, Metal and Plastic	51-4031
Tenders, Pressing Machine	51-9041
Tenders, Punching Machine, Metal and Plastic	51-4031
Tenders, Rolling Machine, Metal and Plastic	51-4023
Tenders, Sawing machine, Wood	51-7041
Tenders, Separating machine	51-9012
Tenders, Shoe Machine	51-6042
Tenders, Slicing Machine	51-9032
Tenders, Soldering Machine	51-4122
Tenders, Spraying Machine	51-9121
Tenders, Still Machine	51-9012
Tenders, Textile Bleaching Machine	51-6061
Tenders, Textile Cutting Machine	51-6062
Tenders, Textile Drawing Out Machine	51-6064
Tenders, Textile Dyeing Machine	51-6061
Tenders, Textile Knitting Machine	51-6063
Tenders, Textile Twisting Machine	51-6064
Tenders, Textile Weaving Machine	51-6063
Tenders, Textile Winding Machine	51-6064

Tenders, Tobacco Baking Machine Operators	51-3091
Tenders, Tobacco Drying Machine Operators	51-3091
Tenders, Tobacco Roasting Machine	51-3091
Tenders, Turning Machine Tool, Metal and Plastic	51-4034
Tenders, Washing Equipment	51-9192
Tenders, Welding Machine	51-4122
Tenders, Wire Drawing Machine	51-4021
Tenders, Woodworking Machine, Except Sawing	51-7042
Terra Cotta Roofer Helpers	47-3016
Terra Cotta Roofers	47-2181
Terrazzo Finisher Helpers	47-3019
Terrazzo Finishers	47-2053
Terrazzo Grinders	47-2053
Terrazzo Setters	47-2053
Terrazzo Workers	47-2053
Terrazzo Workers and Finishers	47-2053
Testers	51-9061
Testers, Boiler	47-2011
Testers, Crude	19-4041
Testers, Electrical High Tension	49-9051
Testers, Milk	45-2011
Textile Bleaching and Dyeing Machine Operators and Tenders	51-6061
Textile Bleaching Machine Operators	51-6061
Textile Bleaching Machine Tenders	51-6061
Textile Conservators	25-4013
Textile Cutting Machine Operators	51-6062
Textile Cutting Machine Setters	51-6062
Textile Cutting Machine Setters, Operators, and Tenders	51-6062
Textile Cutting Machine Tenders	51-6062
Textile Drawing Out Machine Operators	51-6064
Textile Drawing Out Machine Setters	51-6064
Textile Drawing Out Machine Tenders	51-6064
Textile Dyeing Machine Operators	51-6061
Textile Dyeing Machine Tenders	51-6061
Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063
Textile Knitting Machine Operators	51-6063
Textile Knitting Machine Setters	51-6063
Textile Knitting Machine Tenders	51-6063
Textile Pressers	51-6021
Textile Twisting Machine Operators	51-6064
Textile Twisting Machine Setters	51-6064
Textile Twisting Machine Tenders	51-6064
Textile Weaving Machine Operators	51-6063
Textile Weaving Machine Setters	51-6063
Textile Weaving Machine Tenders	51-6063
Textile Winding Machine Operators	51-6064
Textile Winding Machine Setters	51-6064
Textile Winding Machine Tenders	51-6064
Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	51-6064
Textile Workers, All Other	51-6099
Textile, Apparel, and Furnishings Workers, All Other	51-6099
Theater Ushers	39-3031
Theatrical Agents	13-1011
Theatrical Makeup Artists	39-5091
Theatrical Wardrobe Dressers	39-3092
Theology Professors	25-1126
Therapeutic Recreation Specialists	29-1125
Therapists, All Other	29-1129
Therapists, Certified Recreational	29-1125
Therapists, Couples	21-1013

Therapists, Deep Tissue Massage	31-9011
Therapists, Drama	29-1125
Therapists, Family	21-1013
Therapists, Geriatric Physical	29-1123
Therapists, Inhalation	29-1126
Therapists, Licensed Massage	31-9011
Therapists, Marriage	21-1013
Therapists, Massage	31-9011
Therapists, Music	29-1129
Therapists, Occupational	29-1122
Therapists, Oxygen	29-1126
Therapists, Physical	29-1123
Therapists, Public School Speech	29-1127
Therapists, Pulmonary Physical	29-1123
Therapists, Radiation	29-1124
Therapists, Recreational	29-1125
Therapists, Registered Occupational	29-1122
Therapists, Registered Respiratory	29-1126
Therapists, Respiratory	29-1126
Therapists, Speech	29-1127
Thermodynamics Professors	25-1054
Thermostat Repairers	49-9012
Third Rail Installers	49-9097
Thoracic Surgeons	29-1067
Ticket Agents, Reservation	43-4181
Ticket Agents, Transportation	43-4181
Ticket Collectors	39-3031
Ticket Takers	39-3031
Tile and Marble Setters	47-2044
Tile and Marble Setters Helpers	47-3011
Tile Setters	47-2044
Timber Cutters	45-4021
Timber Estimators	45-4023
Timber Hands	45-4029
Timber Management Professors	25-1043
Timber Management Specialists	19-1032
Timber Management Technicians	19-4093
Time and Attendance Clerks	43-3051
Time Study Statisticians	15-2041
Time Study Technicians	17-3026
Timekeepers	43-3051
Timekeeping Clerks	43-3051
Timing Device Adjusters	51-2093
Timing Device Assemblers	51-2093
Timing Device Assemblers and Adjusters	51-2093
Tin Recovery Workers	51-4199
Tinsmiths	47-2211
Tire Balancers	49-3093
Tire Builders	51-9197
Tire Changers	49-3093
Tire Fixers	49-3093
Tire Molders	51-9197
Tire Repairers	49-3093
Tire Repairers and Changers	49-3093
Title Abstractors	23-2093
Title Examiners	23-2093
Title Examiners, Abstractors, and Searchers	23-2093
Title Officers	23-2093
Title Searchers	23-2093
Tobacco Baking Machine Operators	51-3091

Tobacco Baking Machine Tenders	51-3091
Tobacco Buyers	13-1021
Tobacco Drying Machine Operators	51-3091
Tobacco Drying Machine Tenders	51-3091
Tobacco Roasting Machine Operators	51-3091
Tobacco Roasting Machine Tenders	51-3091
Toll Collectors	41-2011
Tool and Die Designers	17-3013
Tool and Die Engineers	17-2141
Tool and Die Makers	51-4111
Tool Crib Attendants	43-5081
Tool Filers	51-4194
Tool Grinders	51-4194
Tool Grinders, Filers, and Sharpeners	51-4194
Tool Grinding Machine Operators	51-4194
Tool Makers	51-4111
Tool Polishing Machine Operators	51-4033
Tool Sharpeners	51-4194
Topographers	17-1021
Torts Law Professors	25-1112
Tour Escorts	39-7011
Tour Guides	39-7011
Tour Guides and Escorts	39-7011
Tow Truck Dispatchers	43-5032
Tower Equipment Installers	49-2021
Tower Equipment Repairers	49-2021
Tower Operators	53-7021
Toxicologists	19-1042
Trace Evidence Technicians	19-4092
Tracers, Blueprint	17-3019
Tracers, Skip	33-9021
Track Patrol	33-3052
Track Repairers	47-4061
Track Surfacing Machine Operators	47-4061
Track Switch Repairers	49-9097
Trackers, Hurricane	19-2021
Tractor Operators	45-2091
Tractor Trailer Mechanics	49-3031
Tractor-Trailer Truck Drivers	53-3032
Traders, Foreign Exchange	13-2099
Traders, Securities	41-3031
Traditional Chinese Herbalists	29-9099
Traffic Clerks	43-5071
Traffic Court Referees	23-1021
Traffic Engineers	17-2051
Traffic Line Painters	47-2141
Traffic Safety Administrators	11-3071
Traffic Sergeants	33-1012
Traffic Signal Technicians	53-6041
Traffic Technicians	53-6041
Trailhead Maintenance Workers	37-3019
Train Attendants	53-6061
Train Callers	27-3012
Train Dispatchers	43-5032
Train Engineers	53-4011
Train Reservation Clerks	43-4181
Trainers, Animal	39-2011
Trainers, Athletic	29-9091
Trainers, Boxing	27-2022
Trainers, Certified Athletic	29-9091

Trainers, Corporate	13-1151
Trainers, Fitness	39-9031
Trainers, Guide Dog	39-2011
Trainers, Marine Mammal	39-2011
Trainers, Personal	39-9031
Training and Development Managers	11-3131
Training and Development Specialists	13-1151
Training Managers	11-3131
Training Specialists	13-1151
Training Workers, All Other	25-9099
Tram Operators	53-4041
Transcribers, Court	23-2091
Transcribers, Medical	31-9094
Transcription Typists	43-9022
Transcriptionists, Medical	31-9094
Transcriptionists, Pathology	31-9094
Transfer Table Operators	53-4099
Transit and Railroad Police	33-3052
Transit Authority Police	33-3052
Transit Police	33-3052
Translators	27-3091
Transplanters, Greenhouse	45-2092
Transportation Attendants, Except Flight Attendants	53-6061
Transportation Equipment Electrical and Electronics Installers and Repairers	49-2093
Transportation Inspectors	53-6051
Transportation Machine Operators, First-Line Supervisors	53-1031
Transportation Managers	11-3071
Transportation Security Administration (TSA) Screener Supervisors	33-1099
Transportation Security Administration (TSA) Screeners	33-9093
Transportation Security Officers	33-9093
Transportation Security Screeners	33-9093
Transportation Technicians	53-6041
Transportation Ticket Agents	43-4181
Transportation Vehicle Operators, First-Line Supervisors	53-1031
Transportation Workers, All Other	53-6099
Transportation, Storage, and Distribution Managers	11-3071
Trappers	45-3021
Trappers, Bird	45-3021
Trappers, Predatory Animal	45-3021
Trash Collectors	53-7081
Travel Agents	41-3041
Travel Clerks	43-4181
Travel Experts, Corporate	41-3041
Travel Guides	39-7012
Travel Service Consultants	41-3041
Tree Farm Contractors	13-1021
Tree Planters	45-4011
Tree Pruners	37-3013
Tree Specialists	37-3013
Tree Surgeons	37-3013
Tree Trimmer Helpers	37-3019
Tree Trimmers	37-3013
Tree Trimmers and Pruners	37-3013
Trench Pipe Layers	47-2151
Tribal Council Members	11-1031
Tribal Judges	23-1023
Trim Saw Operators	51-7041
Trimmers, Fish	51-3022
Trimmers, Fur	51-9031
Trimmers, Hand	51-9031

Trimmers, Hedge	37-3011
Trimmers, Meat	51-3022
Trimmers, Poultry	51-3022
Trimmers, Rubber	51-9032
Trimmers, Tree	37-3013
Trimmers, Window	27-1026
Trolley Car Operators	53-4041
Trolley Car Overhaulers	49-3043
Troopers, State	33-3051
Truck Body Repairers	49-3021
Truck Drivers, Heavy	53-3032
Truck Drivers, Logging	53-3032
Truck Drivers, Tractor-Trailer	53-3032
Truck Loaders	53-7121
Truck Mechanics	49-3031
Tugboat Engineers	53-5031
Tuners, Musical Instrument	49-9063
Tuners, Piano	49-9063
Turning Machine Tool Setters, Metal and Plastic	51-4034
Tutors	25-3099
Tutors, Autism	25-2059
Two-Way Radio Technicians	49-2021
Typists	43-9022
Typists, Clerk	43-9022
Typists, Data	43-9021
Typists, Transcription	43-9022
Ultrasonic Welding Machine Operators	51-4122
Ultrasound Technologists	29-2032
Umpires	27-2023
Umpires, Referees, and Other Sports Officials	27-2023
Underground Bolting Machine Operators	47-5061
Underground Roof Bolters	47-5061
Undertakers	39-4031
Underwater Welders	49-9092
Underwriters, Automobile and Property	13-2053
Underwriters, Bond	13-2053
Underwriters, Insurance	13-2053
Underwriters, Loan	13-2072
Underwriting Clerks	43-9041
Unemployment Benefits Claims Takers	43-4061
Union Representatives	13-1075
University Administrators	11-9033
Unloaders, Ship	53-7121
Upholsterers	51-6093
Upholsterers, Aircraft Seat	51-6093
Upholsterers, Furniture	51-6093
Urban and Regional Planners	19-3051
Urban Planners	19-3051
Urban Planning Professors	25-1069
Used Car Salespersons	41-2031
Ushers	39-3031
Ushers, Lobby Attendants, and Ticket Takers	39-3031
Ushers, Theater	39-3031
Utilities Managers	11-9199
Utilities Meter Readers	43-5041
Vacuum Cleaner Assemblers	51-2023
Vacuum Cleaner Repairers	49-9031
Valet Parkers	53-6021
Valets	39-9099
Vascular Technologists	29-2031

Vehicle Damage Appraisers	13-1032
Vehicles, Cleaners	53-7061
Vending Machine Assemblers	51-2023
Vending Machine Fillers	49-9091
Vending Machine Repairers	49-9091
Vending Machine Servicers	49-9091
Vendors, News	41-9091
Vendors, Souvenir Street	41-9091
Vendors, Street	41-9091
Veneer Graders	45-4023
Venipuncturists	31-9097
Vergers	21-2099
Vest Makers	51-6052
Veterans Rehabilitation Counselors	21-1015
Veterans Service Officers	21-1099
Veterinarian Helpers	31-9096
Veterinarians	29-1131
Veterinarians, Wildlife	29-1131
Veterinary Assistants	31-9096
Veterinary Assistants and Laboratory Animal Caretakers	31-9096
Veterinary Attendants	31-9096
Veterinary Laboratory Technicians	29-2056
Veterinary Medicine Scientists	29-1131
Veterinary Medicine, Doctors of (DVM)	29-1131
Veterinary Surgery Technologists	29-2056
Veterinary Technicians	29-2056
Veterinary Technologists	29-2056
Veterinary Technologists and Technicians	29-2056
Veterinary X-Ray Operators	29-2056
Vibratory Pile Drivers	47-2072
Video Camera Operators	27-4031
Video Control Operators	27-4011
Video Editors	27-4032
Video Equipment Technicians	27-4011
Video Production Assistants	27-4011
Videographers, News	27-4031
Violin Repairers	49-9063
Virologists	19-1022
Vocational Counselors	21-1012
Vocational Education Teachers, Postsecondary	25-1194
Vocational Psychologists	19-3031
Vocational Rehabilitation Counselors	21-1015
Voice-Over Artists	27-2011
Volcanologists	19-2042
Wafer Fabricators	51-9141
Wage and Salary Administrators	11-3111
Waiters	35-3031
Waiters and Waitresses	35-3031
Waitresses	35-3031
Wall Covering Installers	47-2142
Wall Tapers	47-2082
Wallpaperer Helpers	47-3014
Wallpaperers	47-2142
Wall-to-Wall Carpet Installers	47-2041
Wardens, Animal	33-9011
Wardens, Fish	33-3031
Wardens, Game	33-3031
Wardrobe Attendants	39-3092
Warehouse Clerks	43-5081
Warehouse Managers	11-3071

Warehouse Supervisors	53-1021
Warrant Clerks	43-4031
Warrant Servers	33-9099
Warranty Clerks	43-4051
Washers, Brick	47-3011
Washers, Building Pressure	37-2019
Washers, Window	37-2011
Washing Equipment Operators	51-9192
Washing Equipment Tenders	51-9192
Washing Machine Installers	49-9031
Washroom Attendants	39-3093
Waste Minimization Technicians	19-4091
Wastewater Treatment Plant Operators	51-8031
Wastewater Treatment System Operators	51-8031
Watch Repairers	49-9064
Watch Technicians	49-9064
Watchmakers	49-9064
Water and Wastewater Treatment Plant and System Operators	51-8031
Water Main Installer Helpers	47-3015
Water Main Pipe Layers	47-2151
Water Meter Readers	43-5041
Water Pollution Scientists	19-2041
Water Taxi Operators	53-5022
Water Treatment Plant Engineers	17-2081
Water Treatment Plant Operators	51-8031
Water Treatment System Operators	51-8031
Water Vessels, Pilots	53-5021
Watercraft Service Attendants	53-6031
Waterproofers	47-4099
Wax Pattern Coaters	51-4071
Weapons Specialists/Crew Members, First-Line Supervisors	55-2012
Weavers	51-6051
Weavers, Jacquard Loom	51-6063
Weaving Professors	25-1192
Web Designers	15-1134
Web Developers	15-1134
Web Press Operators	51-5112
Wedding Photographers	27-4021
Wedding Planners	13-1121
Weed Sprayers	37-3012
Weighers	51-9061
Weighers, Cheese	43-5111
Weighers, Measurers, Checkers, and Samplers, Recordkeeping	43-5111
Weighers, Recordkeeping	43-5111
Weighing Station Operators	43-5111
Welder Helpers	51-9198
Welders	51-4121
Welders, Arc	51-4121
Welders, Cutters, Solderers, and Brazers	51-4121
Welders, Pipe	51-4121
Welders, Underwater	49-9092
Welding Engineers	17-2131
Welding Machine Operators	51-4122
Welding Machine Setters	51-4122
Welding Machine Tenders	51-4122
Welding Robot Operators	51-4011
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	51-4122
Well Service Derrick Workers	47-5011
Well Servicing Rig Operators	47-5013
Wellhead Pumpers	53-7073

Welt Trimming Machine Operators	51-6062
Wetlands Conservation Laborers	45-4011
Wharf Laborers	53-7062
Wholesale and Retail Buyers, Except Farm Products	13-1022
Wholesale Buyers, Except Farm Products	13-1022
Wholesale Diamond Brokers	41-4012
Wholesale Merchandising Managers	11-3061
Wholesale Procurement Managers	11-3061
Wholesale Ultrasonic Equipment Salespersons	41-4011
Wide Area Network Administrators	15-1142
Wig Stylists	39-5012
Wild Oyster Harvesters	45-3011
Wildfire Prevention Specialists	33-2022
Wildlife and Game Protectors	33-3031
Wildlife Biologists	19-1023
Wildlife Conservation Professors	25-1043
Wildlife Officers	33-3031
Wildlife Technicians	19-4021
Wildlife Veterinarians	29-1131
Winch Derrick Operators	53-7041
Winch Operators	53-7041
Wind Energy Technicians	49-9081
Wind Tunnel Technicians	17-3021
Wind Turbine Erectors	47-2221
Wind Turbine Mechanics	49-9081
Wind Turbine Service Technicians	49-9081
Winders, Coil	51-2021
Winders, Motor	51-2021
Window Air Conditioner Installers	49-9031
Window Decorators	27-1026
Window Trimmers	27-1026
Window Washers	37-2011
Windshield Installers	49-3022
Wine Stewards	35-3031
Wire Coilers	51-2021
Wire Drawing Machine Tenders	51-4021
Wire Fence Builders	47-4031
Wire Temperers	51-4191
Wireless Internet Installers	49-2097
Wirers, Electrical Sign	47-2111
Women's Apparel Salespersons	41-2031
Women's Studies Professors	25-1062
Wood Cabinet Finishers	51-7021
Wood Carvers	51-7099
Wood Casket Assemblers	51-7099
Wood Die Makers	51-7032
Wood Dowel Machine Operators	51-7042
Wood Fence Installers	47-4031
Wood Floor Layers	47-2031
Wood Furniture Assemblers	51-7011
Wood Jig Builders	51-7031
Wood Lathe Operators	51-7042
Wood Model Makers	51-7031
Wood Patternmakers	51-7032
Wood Planers	51-7042
Wood Sawing Machine Setters, Operators, and Tenders	51-7041
Woodworkers, All Other	51-7099
Woodworking Machine Operators, Except Sawing	51-7042
Woodworking Machine Setters, Except Sawing	51-7042
Woodworking Machine Setters, Operators, and Tenders, Except Sawing	51-7042

Woodworking Machine Tenders, Except Sawing	51-7042
Wool Pressers	51-6021
Word Processors	43-9022
Word Processors and Typists	43-9022
Worker, Kennel	39-2021
Workers, Administrative Support, All Other	43-9199
Workers, Agricultural, All Other	45-2099
Workers, Animal Control	33-9011
Workers, Animal Shelter	39-2021
Workers, Apparel, All Other	51-6099
Workers, Asbestos Abatement	47-4041
Workers, Building Cleaning, All Other	37-2019
Workers, Child Abuse	21-1021
Workers, Childcare	39-9011
Workers, Coating	51-9123
Workers, Communication Equipment, All Other	27-4099
Workers, Communication, All Other	27-3099
Workers, Community Health	21-1094
Workers, Community Organization	21-1099
Workers, Conservation	45-4011
Workers, Dairy Husbandry	45-2021
Workers, Decontamination	47-4041
Workers, Decorating	51-9123
Workers, Dish Room	35-9021
Workers, Door-to-Door Sales	41-9091
Workers, Driver/Sales	53-3031
Workers, Dry-Cleaning	51-6011
Workers, Education, All Other	25-9099
Workers, Entertainment Related, All Other	39-3099
Workers, Explosives	47-5031
Workers, Extraction, All Other	47-5099
Workers, Food Preparation	35-2021
Workers, Food Preparation, All Other	35-9099
Workers, Food Processing, All Other	51-3099
Workers, Food Serving Related, All Other	35-9099
Workers, Forest	45-4011
Workers, Foster Care	21-1021
Workers, Furnishings, All Other	51-6099
Workers, Gaming Cage	43-3041
Workers, Gaming Service, All Other	39-3019
Workers, Grinding, Hand	51-9022
Workers, Grounds Maintenance, All Other	37-3019
Workers, Groundskeeping	37-3011
Workers, Hazardous Materials Removal	47-4041
Workers, Healthcare Technical, All Other	29-9099
Workers, Healthcare Support, All Other	31-9099
Workers, Highway Maintenance	47-4051
Workers, Hospital Food Service	35-3041
Workers, Human Services	21-1093
Workers, Installation, All Other	49-9099
Workers, Interior Surface Insulation	47-2131
Workers, Irrigation	45-2099
Workers, Landscaping	37-3011
Workers, Laundry	51-6011
Workers, Leather	51-6041
Workers, Legal Support, All Other	23-2099
Workers, Library, All Other	25-9099
Workers, Logging, All Other	45-4029
Workers, Maintenance, All Other	49-9099
Workers, Marquetry	51-7011

Workers, Material Moving, All Other	53-7199
Workers, Meat Counter	51-3021
Workers, Media Equipment, All Other	27-4099
Workers, Media, All Other	27-3099
Workers, Metal, All Other	51-4199
Workers, Metal, Precious	51-9071
Workers, Office Support, All Other	43-9199
Workers, Onyx-Chip Terrazzo	47-2053
Workers, Painting	51-9123
Workers, Parking Enforcement	33-3041
Workers, Personal Care, All Other	39-9099
Workers, Personal Service, All Other	39-9099
Workers, Pest Control	37-2021
Workers, Photographic Process	51-9151
Workers, Plastic, All Other	51-4199
Workers, Playground	39-9032
Workers, Polishing, Hand	51-9022
Workers, Precious Stone	51-9071
Workers, Prepress	51-5111
Workers, Print Binding	51-5113
Workers, Print Finishing	51-5113
Workers, Production, All Other	51-9199
Workers, Rail Maintenance	47-4061
Workers, Rail Transportation, All Other	53-4099
Workers, Rebar	47-2171
Workers, Recreation	39-9032
Workers, Reforestation	45-4011
Workers, Reinforcing Iron	47-2171
Workers, Repair, All Other	49-9099
Workers, Sheet Metal	47-2211
Workers, Shoe	51-6041
Workers, Smokehouse	51-3091
Workers, Structural Iron	47-2221
Workers, Structural Steel	47-2221
Workers, Stucco	47-2161
Workers, Terrazzo	47-2053
Workers, Textile, All Other	51-6099
Workers, Tin Recovery	51-4199
Workers, Trailhead Maintenance	37-3019
Workers, Training, All Other	25-9099
Workers, Transportation, All Other	53-6099
Workers, Well Service Derrick	47-5011
Workforce Development Specialists	13-1151
Wrappers, Gift	53-7064
Writers	27-3043
Writers and Authors	27-3043
Writers, Advertising Copy	27-3043
Writers, Documentation	27-3042
Writers, Gaming Book	39-3012
Writers, Jingle	27-2041
Writers, Medical	27-3042
Writers, Publicity	27-3031
Writers, Race Book	39-3012
Writers, Specifications	27-3042
Writers, Sports Book	39-3012
Writers, Technical	27-3042
Writers, Television	27-3043
X-Ray Technicians	29-2034
Yard Conductors	53-4031
Yard Riggers	49-9096

Yardmasters, Railroad	53-4031
Yeast Makers	51-3099
Yellow Pages Space Salespersons	41-3011
Yoga Instructors	39-9031
Youth Ministry Directors	21-2021
Youth Program Directors	11-9151
Zookeepers	39-2021
Zoologists	19-1023
Zoologists and Wildlife Biologists	19-1023

11-1011 Chief Executives
Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.

Illustrative examples: Governor

11-1021 General and Operations Managers
Plan, direct, or coordinate the operations of public or private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Excludes First-Line Supervisors.

Illustrative examples: General Superintendent, Radio Station Manager, Television Station Manager

11-1031 Legislators
Develop, introduce or enact laws and statutes at the local, tribal, State, or Federal level. Includes only workers in elected positions.

Illustrative examples: City Council Member, Senator, Tribal Council Member

11-2011 Advertising and Promotions Managers
Plan, direct, or coordinate advertising policies and programs or produce collateral materials, such as posters, contests, coupons, or give-aways, to create extra interest in the purchase of a product or service for a department, an entire organization, or on an account basis.

Illustrative examples: Advertising Director, Advertising Executive, Promotions Director

11-2021 Marketing Managers
Plan, direct, or coordinate marketing policies and programs, such as determining the demand for products and services offered by a firm and its competitors, and identify potential customers. Develop pricing strategies with the goal of maximizing the firm's profits or share of the market while ensuring the firm's customers are satisfied. Oversee product development or monitor trends that indicate the need for new products and services.

Illustrative examples: Internet Marketing Manager, Marketing Administrator, Marketing Director

11-2022 Sales Managers
Plan, direct, or coordinate the actual distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics gathered by staff to determine sales potential and inventory requirements and monitor the preferences of customers.

Illustrative examples: District Sales Manager, Export Manager, Regional Sales Manager, Sales Director

11-2031 Public Relations and Fundraising Managers
Plan, direct, or coordinate activities designed to create or maintain a favorable public image or raise issue awareness for their organization or client; or if engaged in fundraising, plan, direct, or coordinate activities to solicit and maintain funds for special projects or nonprofit organizations.

Illustrative examples: Fundraising Director, Public Affairs Director, Publicity Director

11-3011 Administrative Services Managers
Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, facilities planning and maintenance, custodial operations, and other office support services. Medical records administrators are included in “Medical and Health Services Managers” (11-9111). Excludes “Purchasing Managers" (11-3061).

Illustrative examples: Facilities Manager, Records and Information Manager, Records Management Director

11-3021 Computer and Information Systems Managers
Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. Excludes “Computer Occupations" (15-1111 through 15-1199).

Illustrative examples: Chief Technology Officer, Information Technology Systems Director, Management Information Systems Director

11-3031 Financial Managers
Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment.

Illustrative examples: Comptroller, Financial Director

11-3051 Industrial Production Managers
Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications.

Illustrative examples: Manufacturing Director, Plant Manager, Production Control Manager

11-3061 Purchasing Managers
Plan, direct, or coordinate the activities of buyers, purchasing officers, and related workers involved in purchasing materials, products, and services. Includes wholesale or retail trade merchandising managers and procurement managers.

Illustrative examples: Contracting Manager, Procurement Manager, Purchasing Director

11-3071 Transportation, Storage, and Distribution Managers
Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers.

Illustrative examples: Distribution Center Manager, Traffic Safety Administrator, Warehouse Manager

11-3111 Compensation and Benefits Managers
Plan, direct, or coordinate compensation and benefits activities of an organization. Job analysis and position description managers are included in "Human Resource Managers" (11-3121).

Illustrative examples: Compensation Director, Employee Benefits Director, Wage and Salary Administrator

11-3121 Human Resources Managers
Plan, direct, or coordinate human resources activities and staff of an organization. Excludes managers who primarily focus on compensation and benefits (11-3111) and training and development (11-3131).

Illustrative examples: Job Analysis Manager, Labor Relations Director, Personnel Manager, Position Description Manager

11-3131 Training and Development Managers
Plan, direct, or coordinate the training and development activities and staff of an organization.

Illustrative examples: E-Learning Manager, Employee Development Director, Labor Training Manager

11-9013 Farmers, Ranchers, and Other Agricultural Managers
Plan, direct, or coordinate the management or operation of farms, ranches, greenhouses, aquacultural operations, nurseries, timber tracts, or other agricultural establishments. May hire, train, and supervise farm workers or contract for services to carry out the day-to-day activities of the managed operation. May engage in or supervise planting, cultivating, harvesting, and financial and marketing activities. Excludes "First-Line Supervisors of Farming, Fishing, and Forestry Workers" (45-1011).

Illustrative examples: Animal Husbandry Manager, Dairy Farm Manager, Fish Hatchery Manager, Orchard Manager

11-9021 Construction Managers
Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Includes managers in specialized construction fields, such as carpentry or plumbing.

Illustrative examples: Construction Coordinator, Construction Superintendent, General Contractor

11-9031 Education Administrators, Preschool and Childcare Center/Program

Plan, direct, or coordinate the academic and nonacademic activities of preschool and childcare centers or programs. Excludes “Preschool Teachers" (25-2011).

Illustrative examples: Childcare Center Administrator, Head Start Director, Preschool Director

11-9032 Education Administrators, Elementary and Secondary School
Plan, direct, or coordinate the academic, administrative, or auxiliary activities of public or private elementary or secondary level schools.

Illustrative examples: Elementary School Principal, High School Principal, Middle School Principal

11-9033 Education Administrators, Postsecondary
Plan, direct, or coordinate research, instructional, student administration and services, and other educational activities at postsecondary institutions, including universities, colleges, and junior and community colleges.

Illustrative examples: Provost, University Administrator

11-9039 Education Administrators, All Other
All education administrators not listed separately.

11-9041 Architectural and Engineering Managers
Plan, direct, or coordinate activities in such fields as architecture and engineering or research and development in these fields. Excludes “Natural Sciences Managers" (11-9121).

Illustrative examples: Engineering Design Manager, Global Engineering Manager, Mechanical Engineering Director

11-9051 Food Service Managers
Plan, direct, or coordinate activities of an organization or department that serves food and beverages. Excludes “Chefs and Head Cooks” (35-1011).

Illustrative examples: Banquet Director, Food Service Director, Tavern Operator

11-9061 Funeral Service Managers
Plan, direct, or coordinate the services or resources of funeral homes. Includes activities such as determining prices for services or merchandise and managing the facilities of funeral homes. Excludes “Morticians, Undertakers, and Funeral Directors” (39-4031).

Illustrative examples: Funeral Home Director, Funeral Home Manager

11-9071 Gaming Managers
Plan, direct, or coordinate gaming operations in a casino. May formulate house rules.

Illustrative examples: Casino Manager, Slot Operations Manager, Table Games Manager

11-9081 Lodging Managers

Plan, direct, or coordinate activities of an organization or department that provides lodging and other accommodations. Excludes “Food Service Managers" (11-9051) in lodging establishments.

Illustrative examples: Bed and Breakfast Innkeeper, Hotel Manager, Innkeeper

11-9111 Medical and Health Services Managers
Plan, direct, or coordinate medical and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.

Illustrative examples: Clinic Director, Hospital Administrator, Medical Records Administrator, Mental Health Program Manager

11-9121 Natural Sciences Managers
Plan, direct, or coordinate activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields. Excludes “Architectural and Engineering Managers" (11-9041) and "Computer and Information Systems Managers" (11-3021).

Illustrative examples: Agricultural Research Director, Geophysical Manager, Ocean Program Administrator

11-9131 Postmasters and Mail Superintendents
Plan, direct, or coordinate operational, administrative, management, and supportive services of a U.S. post office; or coordinate activities of workers engaged in postal and related work in assigned post office.

Illustrative examples: Postal Supervisor, Postmaster

11-9141 Property, Real Estate, and Community Association Managers
Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Includes managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way).

Illustrative examples: Apartment Manager, Building Rental Manager, Leasing Property Manager

11-9151 Social and Community Service Managers
Plan, direct, or coordinate the activities of a social service program or community outreach organization. Oversee the program or organization's budget and policies regarding participant involvement, program requirements, and benefits. Work may involve directing social workers, counselors, or probation officers.

Illustrative examples: Child Welfare Director, Family Service Center Director, Youth Program Director

11-9161 Emergency Management Directors
Plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (e.g., hurricanes, floods, earthquakes), wartime, or technological (e.g., nuclear power plant emergencies or hazardous materials spills) disasters or hostage situations.

Illustrative examples: Disaster Response Director, Emergency Preparedness Coordinator, Public Safety Director

11-9199 Managers, All Other
All managers not listed separately.

Illustrative examples: Clerk of Court, Social Science Manager, Utilities Manager

13-1000 Business Operations Specialists

13-1011 Agents and Business Managers of Artists, Performers, and Athletes
Represent and promote artists, performers, and athletes in dealings with current or prospective employers. May handle contract negotiation and other business matters for clients.

Illustrative examples: Band Manager, Literary Agent, Theatrical Agent

13-1021 Buyers and Purchasing Agents, Farm Products
Purchase farm products either for further processing or resale. Includes tree farm contractors, grain brokers and market operators, grain buyers, and tobacco buyers.

Illustrative examples: Cotton Broker, Fruit Buyer, Livestock Buyer

13-1022 Wholesale and Retail Buyers, Except Farm Products
Buy merchandise or commodities, other than farm products, for resale to consumers at the wholesale or retail level, including both durable and nondurable goods. Analyze past buying trends, sales records, price, and quality of merchandise to determine value and yield. Select, order, and authorize payment for merchandise according to contractual agreements. May conduct meetings with sales personnel and introduce new products. Includes assistant wholesale and retail buyers of nonfarm products.

Illustrative examples: Gold Buyer, Merchandise Buyer

13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products
Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing. Excludes “Buyers and Purchasing Agents, Farm Products" (13-1021) and "Wholesale and Retail Buyers, Except Farm Products" (13-1022).

Illustrative examples: Equipment, Supplies, and Tools Purchasing Agent; Radio Time Buyer

13-1031 Claims Adjusters, Examiners, and Investigators
Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims. Excludes “Fire Inspectors and Investigators” (33-2021).

Illustrative examples: Fire Claims Adjuster, Health Insurance Adjuster, Property and Casualty Insurance Claims Examiner

13-1032 Insurance Appraisers, Auto Damage
Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with automotive repair shop on repair costs.

Illustrative examples: Automobile Damage Appraiser, Vehicle Damage Appraiser

13-1041 Compliance Officers
Examine, evaluate, and investigate eligibility for or conformity with laws and regulations governing contract compliance of licenses and permits, and perform other compliance and enforcement inspection and analysis activities not classified elsewhere. Excludes "Financial Examiners" (13-2061), “Tax Examiners and Collectors, and Revenue Agents" (13-2081), “Occupational Health and Safety Specialists” (29-9011), “Occupational Health and Safety Technicians” (29-9012), Transportation Security Screeners (33-9093), “Agricultural Inspectors” (45-2011), “Construction and Building Inspectors” (47-4011), and “Transportation Inspectors” (53-6051).

Illustrative examples: Driver’s License Examiner, Environmental Compliance Inspector, Equal Employment Opportunity Officer

13-1051 Cost Estimators
Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured.

Illustrative examples: Construction Job Cost Estimator, Crating and Moving Estimator, Production Cost Estimator

13-1071 Human Resources Specialists
Perform activities in the human resource area. Includes employment specialists who screen, recruit, interview, and place workers. Excludes “Compensation, Benefits, and Job Analysis Specialists” (13-1141) and “Training and Development Specialists” (13-1151).

Illustrative examples: Human Resources Generalist, Personnel Recruiter, Staffing Coordinator

13-1074 Farm Labor Contractors
Recruit and hire seasonal or temporary agricultural laborers. May transport, house, and provide meals for workers.

Illustrative example: Harvesting Contractor

13-1075 Labor Relations Specialists

Resolve disputes between workers and managers, negotiate collective bargaining agreements, or coordinate grievance procedures to handle employee complaints. Excludes equal employment opportunity (EEO) officers who are included in “Compliance Officers” (13-1041).

Illustrative examples: Employee Relations Specialist, Labor Relations Consultant, Union Representative

13-1081 Logisticians
Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Excludes “Transportation, Storage, and Distribution Managers” (11-3071).

Illustrative examples: Logistics Analyst, Logistics Planner, Logistics Specialist

13-1111 Management Analysts
Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants. Excludes “Computer Systems Analysts" (15-1121) and "Operations Research Analysts" (15-2031).

Illustrative examples: Business Management Analyst, Business Process Consultant, Industrial Analyst

13-1121 Meeting, Convention, and Event Planners
Coordinate activities of staff, convention personnel, or clients to make arrangements for group meetings, events, or conventions.

Illustrative examples: Conference Planner, Corporate Meeting Planner, Wedding Planner

13-1131 Fundraisers
Organize activities to raise funds or otherwise solicit and gather monetary donations or other gifts for an organization. May design and produce promotional materials. May also raise awareness of the organization’s work, goals, and financial needs.

Illustrative examples: Campaign Fundraiser, Donor Relations Officer, Fundraising Officer

13-1141 Compensation, Benefits, and Job Analysis Specialists
Conduct programs of compensation and benefits and job analysis for employer. May specialize in specific areas, such as position classification and pension programs.

Illustrative examples: Employee Benefits Specialist, Job Analyst, Retirement Plan Specialist

13-1151 Training and Development Specialists
Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.

Illustrative examples: Computer Training Specialist, Corporate Trainer, Workforce Development Specialist

13-1161 Market Research Analysts and Marketing Specialists
Research market conditions in local, regional, or national areas, or gather information to determine potential sales of a product or service, or create a marketing campaign. May gather information on competitors, prices, sales, and methods of marketing and distribution.

Illustrative examples: Market Research Specialist, Marketing Consultant, Marketing Forecaster

13-1199 Business Operations Specialists, All Other
All business operations specialists not listed separately.

Illustrative examples: Mystery Shopper, Ship Purser

13-2000 Financial Specialists

13-2011 Accountants and Auditors
Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data. Excludes "Tax Examiners and Collectors, and Revenue Agents" (13-2081).

Illustrative examples: Certified Public Accountant, Field Auditor, Internal Auditor

13-2021 Appraisers and Assessors of Real Estate
Appraise real property and estimate its fair value. May assess taxes in accordance with prescribed schedules.

Illustrative examples: Land Appraiser, Property Appraiser, Tax Assessor

13-2031 Budget Analysts
Examine budget estimates for completeness, accuracy, and conformance with procedures and regulations. Analyze budgeting and accounting reports.

Illustrative examples: Budget Examiner, Budget Officer, Cost Analyst

13-2041 Credit Analysts
Analyze credit data and financial statements of individuals or firms to determine the degree of risk involved in extending credit or lending money. Prepare reports with credit information for use in decision making.

Illustrative examples: Credit Assessment Analyst, Credit Risk Analyst

13-2051 Financial Analysts
Conduct quantitative analyses of information affecting investment programs of public or private institutions.

Illustrative examples: Corporate Financial Analyst, Corporate Securities Research Analyst, Institutional Commodity Analyst

13-2052 Personal Financial Advisors
Advise clients on financial plans using knowledge of tax and investment strategies, securities, insurance, pension plans, and real estate. Duties include assessing clients' assets, liabilities, cash flow, insurance coverage, tax status, and financial objectives.

Illustrative examples: Estate Planner, Individual Pension Advisor, Personal Investment Advisor

13-2053 Insurance Underwriters
Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications.

Illustrative examples: Automobile and Property Underwriter, Bond Underwriter, Insurance Analyst

13-2061 Financial Examiners
Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records.

Illustrative examples: Bank Examiner, Financial Compliance Examiner, Home Mortgage Disclosure Act Specialist

13-2071 Credit Counselors
Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explaining loan requirements or restrictions. May help develop debt management plans, advise on credit issues, or provide budget, mortgage, and bankruptcy counseling.

Illustrative examples: Debt Management Counselor, Financial Assistance Advisor, Loan Counselor

13-2072 Loan Officers
Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans. Advise borrowers on financial status and payment methods. Includes mortgage loan officers and agents, collection analysts, loan servicing officers, and loan underwriters.

Illustrative examples: Commercial Lender, Loan Reviewer, Real Estate Loan Officer

13-2081 Tax Examiners and Collectors, and Revenue Agents
Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations.

Illustrative examples: Internal Revenue Service Agent, Revenue Collector, Tax Investigator

13-2082 Tax Preparers
Prepare tax returns for individuals or small businesses. Excludes “Accountants and Auditors” (13-2011).

Illustrative examples: Income Tax Advisor, Income Tax Preparer, Licensed Tax Consultant

13-2099 Financial Specialists, All Other
All financial specialists not listed separately.

Illustrative examples: Bail Bondsman, Executor of Estate, Foreign Exchange Trader

15-1100 Computer Occupations

15-1111 Computer and Information Research Scientists
Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.

Illustrative examples: Control System Computer Scientist, Computational Theory Scientist, Programming Methodology and Languages Researcher

15-1121 Computer Systems Analysts
Analyze science, engineering, business, and other data processing problems to implement and improve computer systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available software.

Illustrative examples: Applications Analyst, Data Processing Systems Analyst, Information Systems Analyst, Systems Architect

15-1052 Computer Systems Analysts, Non R&D
Analyze science, engineering, business, and other data processing problems to implement and improve computer systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available software.

15-1053 Computer Systems Analysts, R&D
These persons spend the majority of their time performing research and development activities related to their work as Computer Systems Analysts.

15-1122 Information Security Analysts
Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses. Excludes “Computer Network Architects” (15-1143).

Illustrative examples: Computer Security Specialist, Internet Security Specialist, Network Security Analyst

15-1131 Computer Programmers

Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals. May assist software developers by analyzing user needs and designing software solutions. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information.

Illustrative examples: Applications Programmer, Computer Language Coder, Systems Programmer

15-1022 Computer Programmers, Non R&D

Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals. May assist software developers by analyzing user needs and designing software solutions. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information.

15-1023 Computer Programmers, R&D

These persons spend the majority of their time performing research and development activities relating to computer programming.

15-1132 Software Developers, Applications

Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers.

Illustrative examples: Computer Applications Engineer, Database Developer, Software Applications Architect, Software Applications Engineer

15-1034 Software Developers, Applications, Non R&D

Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers.

15-1035 Software Developers, Applications, R&D

These persons spend the majority of their time performing research and development activities relating to their work as Software Developers, Applications.

15-1133 Software Developers, Systems Software

Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis.

Illustrative examples: Computer Systems Software Architect, Embedded Systems Software Developer, Software Systems Engineer

15-1036 Software Developers, Systems Software, Non R&D
Design, develop, and test operating systems-level software, compilers, and network distribution software. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis.

15-1037 Software Developers, Systems Software, R&D
These persons spend the majority of their time performing research and development activities relating to their work as Software Developers, Systems Software.

15-1134 Web Developers
Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. Convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content. Excludes "Multimedia Artists and Animators" (27-1014).

Illustrative examples: Internet Developer, Intranet Developer, Web Designer

15-1141 Database Administrators
Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases. Excludes "Information Security Analysts" (15-1122).

Illustrative examples: Database Management System Specialist, Database Security Administrator

15-1142 Network and Computer Systems Administrators
Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May monitor and test Web site performance to ensure Web sites operate correctly and without interruption. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software. May supervise computer user support specialists and computer network support specialists. May administer network security measures. Excludes "Information Security Analysts"(15-1122), "Computer User Support Specialists" (15-1151), and "Computer Network Support Specialists" (15-1152).

Illustrative examples: Network Coordinator, Network Security Administrator, Wide Area Network Administrator

15-1143 Computer Network Architects
Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network

modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software. Excludes "Information Security Analysts" (15-1122), "Network and Computer Systems Administrators" (15-1142), and "Computer Network Support Specialists" (15-1152).

Illustrative examples: Computer Network Engineer, Network Designer, Network Developer

15-1054 Computer Network Architects, Non R&D

Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. Excludes "Information Security Analysts" (15-1122), "Network and Computer Systems Administrators" (15-1142), and "Computer Network Support Specialists" (15-1152).

15-1055 Computer Network Architects, R&D

These persons spend the majority of their time performing research and development activities involving computer and information networks.

15-1151 Computer User Support Specialists

Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Excludes "Network and Computer Systems Administrators" (15-1142).

Illustrative examples: Desktop Support Specialist, End-User Support Specialist, Help Desk Technician

15-1152 Computer Network Support Specialists

Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption. Excludes "Network and Computer Systems Administrators" (15-1142) and "Computer Network Architects" (15-1143).

Illustrative examples: Network Diagnostic Support Technician, Network Support Technician, Network Technician

15-1199 Computer Occupations, All Other

All computer occupations not listed separately. Excludes "Computer and Information Systems Managers" (11-3021), "Computer Hardware Engineers" (17-2061), "Electrical and Electronics Engineers" (17-2070), "Computer Science Teachers, Postsecondary" (25-1021), "Multimedia Artists and Animators" (27-1014), "Graphic Designers" (27-1024), "Computer Operators" (43-9011), and "Computer, Automated Teller, and Office Machine Repairers" (49-2011).

Illustrative example: Computer Laboratory Technician

15-2000 Mathematical Science Occupations

15-2011 Actuaries
Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits.

Illustrative examples: Actuarial Mathematician, Health Actuary, Insurance Actuary

15-2021 Mathematicians
Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields using mathematical methods.

Illustrative examples: Algebraist, Cryptographer, Cryptographic Vulnerability Analyst

15-2031 Operations Research Analysts
Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions. May collect and analyze data and develop decision support software, service, or products. May develop and supply optimal time, cost, or logistics networks for program evaluation, review, or implementation.

Illustrative examples: Operations Analyst, Procedure Analyst, Process Analyst

15-2041 Statisticians
Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as bio-statistics, agricultural statistics, business statistics, or economic statistics. Includes mathematical and survey statisticians. Excludes “Survey Researchers” (19-3022).

Illustrative examples: Biostatistician, Statistical Analyst, Time Study Statistician

15-2091 Mathematical Technicians
Apply standardized mathematical formulas, principles, and methodology to technological problems in engineering and physical sciences in relation to specific industrial and research objectives, processes, equipment, and products.

Illustrative example: Mathematical Engineering Technician

15-2099 Mathematical Science Occupations, All Other
All mathematical scientists not listed separately.

Illustrative example: Harmonic Analyst

17-1000 Architects, Surveyors, and Cartographers

17-1011 Architects, Except Landscape and Naval

Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. Excludes "Landscape Architects" (17-1012) and "Marine Engineers and Naval Architects" (17-2121).

Illustrative examples: Building Architect, Building Architectural Designer, Structural Architect

17-1012 Landscape Architects

Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.

Illustrative examples: Golf Course Architect, Golf Course Designer, Landscape Designer

17-1021 Cartographers and Photogrammetrists

Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems.

Illustrative examples: Digital Cartographer, Mapper, Topographer

17-1022 Surveyors

Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes.

Illustrative examples: Geodetic Surveyor, Land Surveyor, Mineral Surveyor

17-2000 Engineers

17-2011 Aerospace Engineers

Perform engineering duties in designing, constructing, and testing aircraft, missiles, and spacecraft. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques.

Illustrative examples: Aeronautical Engineer, Aircraft Design Engineer, Flight Test Engineer

17-2021 Agricultural Engineers

Apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products.

Illustrative examples: Agricultural Production Engineer, Agricultural Research Engineer, Farm Equipment Engineer

17-2031 Biomedical Engineers
Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and heath management and care delivery systems.

Illustrative examples: Biomaterials Engineer, Bio-Mechanical Engineer, Dialysis Engineer

17-2041 Chemical Engineers
Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering.

Illustrative examples: Fuels Engineer, Plastics Engineer, Polymerization Engineer

17-2051 Civil Engineers
Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, ocean, and geo-technical engineers. Excludes “Hydrologists" (19-2043).

Illustrative examples: Bridge Engineer, Construction Engineer, Highway Engineer

17-2052 Civil Engineers, Non-R&D
Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, ocean, and geo-technical engineers.

17-2053 Civil Engineers, R&D
These persons spend the majority of their time performing research and development activities relating to their work as Civil Engineers.

17-2061 Computer Hardware Engineers
Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components. Excludes “Software Developers, Applications" (15-1132) and “Software Developers, Systems Software” (15-1133).

Illustrative examples: Computer Hardware Designer, Computer Hardware Developer

17-2062 Computer Hardware Engineers, Non-R&D
Design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components.

17-2063 Computer Hardware Engineers, R&D
These persons spend the majority of their time performing research and development activities relating to their work as Computer Hardware Engineers.

17-2071 Electrical Engineers

Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Excludes “Computer Hardware Engineers" (17-2061).

Illustrative examples: Electrical Systems Engineer, Illuminating Engineer, Power Distribution Engineer

17-2073 Electrical Engineers, Non-R&D

Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Excludes “Computer Hardware Engineers" (17-2061).

17-2074 Electrical Engineers, R&D

These persons spend the majority of their time performing research and development activities relating to their work as Electrical Engineers.

17-2072 Electronics Engineers, Except Computer

Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls. Excludes “Computer Hardware Engineers" (17-2061).

Illustrative examples: Circuit Design Engineer, Electronic Design Automation Engineer, Telecommunication Engineer

17-2075 Electronics Engineers, Except Computer, Non-R&D

Design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties. Design electronic circuits and components. Excludes “Computer Hardware Engineers, Non-R&D" (17-2062).

17-2076 Electronics Engineers, Except Computer, R&D

These persons spend the majority of their time performing research and development activities relating to their work as Electronics Engineers, Except Computer. Exclude "Computer Hardware Engineers, R&D" (17-2063).

17-2081 Environmental Engineers

Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.

Illustrative examples: Environmental Remediation Engineer, Pollution Control Engineer, Soil Engineer, Water Treatment Engineer

17-2111 Health and Safety Engineers, Except Mining Safety Engineers and Inspectors

Promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers.

Illustrative examples: Fire Protection Engineer, Industrial Safety Engineer, Product Safety Engineer

17-2112 Industrial Engineers

Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. Excludes “Health and Safety Engineers, Except Mining Safety Engineers and Inspectors" (17-2111).

Illustrative examples: Efficiency Engineer, Manufacturing Engineer, Packaging Engineer, Production Engineer

17-2121 Marine Engineers and Naval Architects
Design, develop, and evaluate the operation of marine vessels, ship machinery, and related equipment, such as power supply and propulsion systems.

Illustrative examples: Marine Architect, Marine Structural Designer, Naval Engineer

17-2131 Materials Engineers
Evaluate materials and develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Includes those engineers working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. Includes metallurgists and metallurgical engineers, ceramic engineers, and welding engineers.

Illustrative examples: Automotive Sheet Metal Engineer, Forensic Materials Engineer, Metallographer

17-2141 Mechanical Engineers
Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.

Illustrative examples: Combustion Engineer, Engine Designer, Heating and Cooling Systems Engineer, Tool and Die Engineer

17-2143 Mechanical Engineers, Non-R&D
Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems.

17-2144 Mechanical Engineers, R&D
These persons spend the majority of their time performing research and development activities relating to their work as Mechanical Engineers.

17-2151 Mining and Geological Engineers, Including Mining Safety Engineers
Conduct sub-surface surveys to identify the characteristics of potential land or mining development sites. May specify the ground support systems, processes and equipment for safe, economical, and environmentally sound extraction or underground construction activities. May inspect areas for unsafe geological conditions, equipment, and working conditions. May design, implement, and coordinate mine safety programs. Excludes "Petroleum Engineers" (17-2171).

Illustrative examples: Geophysical Engineer, Mineral Engineer, Seismic Engineer

17-2161 Nuclear Engineers

Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.

Illustrative examples: Atomic Process Engineer, Nuclear Radiation Engineer, Radiation Engineer, Reactor Engineer

17-2171 Petroleum Engineers
Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.

Illustrative examples: Natural Gas Engineer, Oil Drilling Engineer, Oil Exploration Engineer

17-2199 Engineers, All Other
All engineers not listed separately.

Illustrative examples: Optical Engineer, Ordnance Engineer, Photonics Engineer, Salvage Engineer

17-3000 Drafters, Engineering Technicians, and Mapping Technicians

17-3011 Architectural and Civil Drafters
Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.

Illustrative examples: Building Drafter, Civil Computer-Aided Design and Drafting Technician, Structural Drafter

17-3012 Electrical and Electronics Drafters
Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.

Illustrative examples: Electrical Computer Aided Design and Drafting Technician, Electrical Systems Drafter, Printed Circuit Board Drafter

17-3013 Mechanical Drafters
Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.

Illustrative examples: Aeronautical Drafter, Automotive Design Drafter, Tool and Die Designer

17-3019 Drafters, All Other
All drafters not listed separately.

Illustrative examples: Blueprint Tracer, Geological Drafter, Marine Drafter

17-3021 Aerospace Engineering and Operations Technicians

Operate, install, calibrate, and maintain integrated computer/communications systems, consoles, simulators, and other data acquisition, test, and measurement instruments and equipment, which are used to launch, track, position, and evaluate air and space vehicles. May record and interpret test data.

Illustrative examples: Altitude Chamber Technician, Flight Data Technician, Wind Tunnel Technician

17-3022 Civil Engineering Technicians
Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.

Illustrative examples: Geotechnical Engineering Technician, Highway Engineering Technician, Structural Engineering Technician

17-3023 Electrical and Electronic Engineering Technicians
Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. Excludes “Broadcast Technicians" (27-4012).

Illustrative examples: Electrical Design Technician, Lighting Engineering Technician, Semiconductor Development Technician

17-3024 Electro-Mechanical Technicians
Operate, test, maintain, or calibrate unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.

Illustrative examples: Remotely Piloted Vehicle Engineering Technician, Robotics Testing Technician

17-3025 Environmental Engineering Technicians
Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientist. May assist in the development of environmental remediation devices.

Illustrative examples: Air Analysis Engineering Technician, Environmental Remediation Engineering Technician, Pollution Control Engineering Technician

17-3026 Industrial Engineering Technicians
Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.

Illustrative examples: Motion Study Technician, Production Control Technologist, Time Study Technician

17-3027 Mechanical Engineering Technicians

Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.

Illustrative examples: Gyroscope Engineering Technician, Heat Transfer Technician, Optomechanical Technician

17-3029 Engineering Technicians, Except Drafters, All Other
All engineering technicians, except drafters, not listed separately.

Illustrative examples: Agricultural Engineering Technician, Biomedical Engineering Technician, Metallurgical Engineering Technician, Optical Engineering Technician

17-3031 Surveying and Mapping Technicians
Perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of maps. Excludes “Surveyors" (17-1022), "Cartographers and Photogrammetrists" (17-1021), and "Geoscientists, Except Hydrologists and Geographers" (19-2042).

Illustrative examples: Cartographic Technician, Field Map Technician, GIS Mapping Technician

19-1000 Life Scientists

19-1011 Animal Scientists
Conduct research in the genetics, nutrition, reproduction, growth, and development of domestic farm animals.

Illustrative examples: Animal Nutritionist, Dairy Scientist, Poultry Scientist

19-1012 Food Scientists and Technologists
Use chemistry, microbiology, engineering, and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar, and protein; discover new food sources; research ways to make processed foods safe, palatable, and healthful; and apply food science knowledge to determine best ways to process, package, preserve, store, and distribute food.

Illustrative examples: Dairy Bacteriologist, Enologist, Food Safety Scientist

19-1013 Soil and Plant Scientists
Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants or trees, shrubs, and nursery stock, their growth in soils, and control of pests; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth. May classify and map soils and investigate effects of alternative practices on soil and crop productivity.

Illustrative examples: Arboreal Scientist, Horticulturist, Plant Physiologist

19-1021 Biochemists and Biophysicists

Study the chemical composition or physical principles of living cells and organisms, their electrical and mechanical energy, and related phenomena. May conduct research to further understanding of the complex chemical combinations and reactions involved in metabolism, reproduction, growth, and heredity. May determine the effects of foods, drugs, serums, hormones, and other substances on tissues and vital processes of living organisms.

Illustrative examples: Biological Chemist, Clinical Biochemist, Physical Biochemist

19-1022 Microbiologists
Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.

Illustrative examples: Bacteriologist, Public Health Microbiologist, Virologist

19-1023 Zoologists and Wildlife Biologists
Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife. May specialize in wildlife research and management. May collect and analyze biological data to determine the environmental effects of present and potential use of land and water habitats.

Illustrative examples: Herpetologist, Ichthyologist, Marine Biologist, Ornithologist

19-1029 Biological Scientists, All Other
All biological scientists not listed separately.

Illustrative examples: Embryologist, Osteologist, Paleobotanist

19-1031 Conservation Scientists
Manage, improve, and protect natural resources to maximize their use without damaging the environment. May conduct soil surveys and develop plans to eliminate soil erosion or to protect rangelands. May instruct farmers, agricultural production managers, or ranchers in best ways to use crop rotation, contour plowing, or terracing to conserve soil and water; in the number and kind of livestock and forage plants best suited to particular ranges; and in range and farm improvements, such as fencing and reservoirs for stock watering. Excludes “Zoologists and Wildlife Biologists" (19-1023) and "Foresters" (19-1032).

Illustrative examples: Grassland Conservationist, Range Ecologist, Soil Conservationist

19-1032 Foresters
Manage public and private forested lands for economic, recreational, and conservation purposes. May inventory the type, amount, and location of standing timber, appraise the timber's worth, negotiate the purchase, and draw up contracts for procurement. May determine how to conserve wildlife habitats, creek beds, water quality, and soil stability, and how best to comply with environmental regulations. May devise plans for planting and growing new trees, monitor trees for healthy growth, and determine optimal harvesting schedules.

Illustrative examples: Environmental Protection Forester, Forest Ecologist, Timber Management Specialist

19-1041 Epidemiologists

Investigate and describe the determinants and distribution of disease, disability, or health outcomes. May develop the means for prevention and control.

Illustrative examples: Epidemiology Investigator, Malariologist, Pharmacoepidemiologist

19-1042 Medical Scientists, Except Epidemiologists
Conduct research dealing with the understanding of human diseases and the improvement of human health. Engage in clinical investigation, research and development, or other related activities. Includes physicians, dentists, public health specialists, pharmacologists, and medical pathologists who primarily conduct research. Practitioners who primarily provide medical or dental care or dispense drugs are included in "Health Diagnosing and Treating Practitioners" (29-1000).

Illustrative examples: Cancer Researcher, Immunochemist, Toxicologist

19-1099 Life Scientists, All Other
All life scientists not listed separately.

Illustrative example: Life Science Taxonomist

19-2000 Physical Scientists

19-2011 Astronomers
Observe, research, and interpret astronomical phenomena to increase basic knowledge or apply such information to practical problems.

Illustrative example: Astrophysicist

19-2012 Physicists
Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories. Excludes "Biochemists and Biophysicists" (19-1021).

Illustrative examples: Fluid Dynamicist, Molecular Physicist, Optical Scientist, Rheologist

19-2021 Atmospheric and Space Scientists
Investigate atmospheric phenomena and interpret meteorological data, gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Includes weather analysts and forecasters whose functions require the detailed knowledge of meteorology.

Illustrative examples: Atmospheric Chemist, Climatologist, Hurricane Tracker, Meteorologist

19-2031 Chemists
Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge. Excludes "Geoscientists, Except Hydrologists and Geographers" (19-2042) and "Biochemists and Biophysicists" (19-1021).

Illustrative examples: Food Chemist, Industrial Chemist, Inorganic Chemist, Research and Development Chemist

19-2032 Materials Scientists

Research and study the structures and chemical properties of various natural and synthetic or composite materials, including metals, alloys, rubber, ceramics, semiconductors, polymers, and glass. Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications. Includes glass scientists, ceramic scientists, metallurgical scientists, and polymer scientists.

Illustrative examples: Metal Alloy Scientist, Plastics Scientist

19-2041 Environmental Scientists and Specialists, Including Health
Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources. Excludes "Zoologists and Wildlife Biologists" (19-1023), "Conservation Scientists" (19-1031), "Forest and Conservation Technicians" (19-4093), "Fish and Game Wardens" (33-3031), and "Forest and Conservation Workers" (45-4011).

Illustrative examples: Hazardous Substances Scientist, Health Environmentalist, Water Pollution Scientist

19-2042 Geoscientists, Except Hydrologists and Geographers
Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and mathematics knowledge in exploration for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or other environmental problems. May study the Earth's internal composition, atmospheres, oceans, and its magnetic, electrical, and gravitational forces. Includes mineralogists, crystallographers, paleontologists, stratigraphers, geodesists, and seismologists.

Illustrative examples: Geochemist, Oceanographer, Petrologist, Volcanologist

19-2043 Hydrologists
Research the distribution, circulation, and physical properties of underground and surface waters; and study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.

Illustrative examples: Hydrogeologist, Isotope Hydrologist, Surface Hydrologist

19-2044 Environmental Scientists and Specialists, Including Health, Non-R&D
Study or perform investigations for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Using knowledge of various scientific disciplines, may collect, synthesize, study, report, and recommend action based on data derived from measurements or observations of air, food, soil, water, and other sources. Excludes "Zoologists and Wildlife Biologists" (19-1023), "Conservation Scientists" (19-1031), "Forest and Conservation Technicians" (19-4093), "Fish and Game Wardens" (33-3031), and "Forest and Conservation Workers" (45-4011).

19-2045 Environmental Scientists and Specialists, Including Health, R&D
These persons spend the majority of their time performing research and development activities relating to their work as Environmental Scientists and Specialists, Including Health

19-2099 Physical Scientists, All Other
All physical scientists not listed separately.

19-3000 Social Scientists and Related Workers

19-3011 Economists
Conduct research, prepare reports, or formulate plans to address economic problems related to the production and distribution of goods and services or monetary and fiscal policy. May collect and process economic and statistical data using sampling techniques and econometric methods. Excludes "Market Research Analysts and Marketing Specialists" (13-1161).

Illustrative examples: Econometrician, Economic Research Analyst, Environmental Economist, Industrial Economist

19-3022 Survey Researchers
Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams. Excludes "Market Research Analysts and Marketing Specialists" (13-1161) and "Statisticians" (15-2041).

Illustrative examples: Pollster, Survey Methodologist, Survey Questionnaire Designer

19-3031 Clinical, Counseling, and School Psychologists
Diagnose and treat mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems, using individual, child, family, and group therapies. May design and implement behavior modification programs.

Illustrative examples: Child Psychologist, Geropsychologist, School Psychologist, Vocational Psychologist

19-3032 Industrial-Organizational Psychologists
Apply principles of psychology to human resources, administration, management, sales, and marketing problems. Activities may include policy planning; employee testing and selection, training and development; and organizational development and analysis. May work with management to organize the work setting to improve worker productivity.

Illustrative examples: Engineering Psychologist, Human Resources Psychologist, Management Psychologist

19-3036 Clinical, Counseling, and School Psychologists, Non R&D
Diagnose and treat mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems, using individual, child, family, and group therapies. May design and implement behavior modification programs.

19-3037 Clinical, Counseling, and School Psychologists, R&D
These persons spend the majority of their time conducting research on treatment of mental disorders; learning disabilities; and cognitive, behavioral, and emotional problems.

19-3039 Psychologists, All Other
All psychologists not listed separately.

Illustrative examples: Forensic Psychologist, Social Psychologist, Sports Psychologist

19-3041 Sociologists

Study human society and social behavior by examining the groups and social institutions that people form, as well as various social, religious, political, and business organizations. May study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members.

Illustrative examples: Criminologist, Family Sociologist, Rural Sociologist

19-3051 Urban and Regional Planners
Develop comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.

Illustrative examples: City Planner, Community Development Planner

19-3091 Anthropologists and Archeologists
Study the origin, development, and behavior of human beings. May study the way of life, language, or physical characteristics of people in various parts of the world. May engage in systematic recovery and examination of material evidence, such as tools or pottery remaining from past human cultures, in order to determine the history, customs, and living habits of earlier civilizations.

Illustrative examples: Ethonoarcheologist, Political Anthropologist, Research Archeologist

19-3092 Geographers
Study the nature and use of areas of the Earth's surface, relating and interpreting interactions of physical and cultural phenomena. Conduct research on physical aspects of a region, including land forms, climates, soils, plants, and animals, and conduct research on the spatial implications of human activities within a given area, including social characteristics, economic activities, and political organization, as well as researching interdependence between regions at scales ranging from local to global.

Illustrative examples: Economic Geographer, Geomorphologist, GIS Geographer, Political Geographer

19-3093 Historians
Research, analyze, record, and interpret the past as recorded in sources, such as government and institutional records, newspapers and other periodicals, photographs, interviews, films, electronic media, and unpublished manuscripts, such as personal diaries and letters.

Illustrative examples: Genealogist, Historiographer, Protohistorian

19-3094 Political Scientists
Study the origin, development, and operation of political systems. May study topics, such as public opinion, political decision-making, and ideology. May analyze the structure and operation of governments, as well as various political entities. May conduct public opinion surveys, analyze election results, or analyze public documents. Excludes “Survey Researchers” (19-3022).

Illustrative examples: Government Affairs Specialist, Political Consultant, Political Research Scientist

19-3099 Social Scientists and Related Workers, All Other
All social scientists and related workers not listed separately.

Illustrative examples: Demographer, Ethnologist, Linguist

19-4000 Life, Physical, and Social Science Technicians

19-4011 Agricultural and Food Science Technicians

Work with agricultural and food scientists in food, fiber, and animal research, production, and processing; and assist with animal breeding and nutrition. Conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects. Includes technicians who assist food scientists or technologists in the research and development of production technology, quality control, packaging, processing, and use of foods.

Illustrative examples: Dairy Technologist, Feed Research Technician, Seed Analyst

19-4021 Biological Technicians

Assist biological and medical scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.

Illustrative examples: Bacteriology Technician, Marine Fisheries Technician, Wildlife Technician

19-4031 Chemical Technicians

Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences.

Illustrative examples: Assayer, Chemical Laboratory Technician, Inorganic Chemical Technician

19-4041 Geological and Petroleum Technicians

Assist scientists or engineers in the use of electronic, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential resources such as metallic ore, minerals, gas, coal, or petroleum. Analyze mud and drill cuttings. Chart pressure, temperature, and other characteristics of wells or bore holes. Investigate and collect information leading to the possible discovery of new metallic ore, minerals, gas, coal, or petroleum deposits.

Illustrative examples: Crude Tester, Geophysical Prospector, Seismic Observer

19-4051 Nuclear Technicians

Assist nuclear physicists, nuclear engineers, or other scientists in laboratory or production activities. May operate, maintain, or provide quality control for nuclear testing and research equipment. May monitor radiation.

Illustrative examples: Nuclear Monitoring Technician, Radiochemical Technician

19-4061 Social Science Research Assistants

Assist social scientists in laboratory, survey, and other social science research. May help prepare findings for publication and assist in laboratory analysis, quality control, or data management. Excludes “Graduate Teaching Assistants" (25-1191).

Illustrative examples: City Planning Aide, Economic Research Assistant, Historian Research Assistant

19-4091 Environmental Science and Protection Technicians, Including Health
Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.

Illustrative examples: Groundwater Monitoring Technician, Infectious Waste Technician, Pollution Control Technician, Waste Minimization Technician

19-4092 Forensic Science Technicians
Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. May serve as specialists in area of expertise, such as ballistics, fingerprinting, handwriting, or biochemistry.

Illustrative examples: Ballistics Expert, Crime Scene Technician, Trace Evidence Technician

19-4093 Forest and Conservation Technicians
Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts, under the direction of foresters; or train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats. Excludes “Conservation Scientists” (19-1031) and “Foresters” (19-1032).

Illustrative examples: Forestry Aide, Soil Conservation Technician, Timber Management Technician

19-4099 Life, Physical, and Social Science Technicians, All Other
All life, physical, and social science technicians not listed separately.

Illustrative examples: Meteorological Aide, Polygraph Examiner

21-1000 Counselors, Social Workers, and Other Community and Social Service Specialists

21-1011 Substance Abuse and Behavioral Disorder Counselors
Counsel and advise individuals with alcohol, tobacco, drug, or other problems, such as gambling and eating disorders. May counsel individuals, families, or groups or engage in prevention programs. Excludes “Social Workers" (21-1021 through 21-1029), "Psychologists" (19-3031 through 19-3039), and "Mental Health Counselors" (21-1014) providing these services.

Illustrative examples: Addiction Counselor, Alcohol and Drug Counselor, Chemical Dependency Counselor

21-1012 Educational, Guidance, School, and Vocational Counselors
Counsel individuals and provide group educational and vocational guidance services.

Illustrative examples: Career Counselor, Career Technical Counselor, Student Development Advisor

21-1013 Marriage and Family Therapists

Diagnose and treat mental and emotional disorders, whether cognitive, affective, or behavioral, within the context of marriage and family systems. Apply psychotherapeutic and family systems theories and techniques in the delivery of services to individuals, couples, and families for the purpose of treating such diagnosed nervous and mental disorders. Excludes “Social Workers" (21-1021 through 21-1029) and "Psychologists" of all types (19-3031 through 19-3039).

Illustrative examples: Child and Family Counselor, Couples Therapist, Marriage Counselor

21-1014 Mental Health Counselors
Counsel with emphasis on prevention. Work with individuals and groups to promote optimum mental and emotional health. May help individuals deal with issues associated with addictions and substance abuse; family, parenting, and marital problems; stress management; self-esteem; and aging. Excludes “Social Workers" (21-1021 through 21-1029), "Psychiatrists" (29-1066), and "Psychologists" (19-3031 through 19-3039).

Illustrative examples: Licensed Clinical Mental Health Counselor (LCMHC), Licensed Mental Health Counselor (LMHC)

21-1015 Rehabilitation Counselors
Counsel individuals to maximize the independence and employability of persons coping with personal, social, and vocational difficulties that result from birth defects, illness, disease, accidents, or the stress of daily life. Coordinate activities for residents of care and treatment facilities. Assess client needs and design and implement rehabilitation programs that may include personal and vocational counseling, training, and job placement.

Illustrative examples: Psychosocial Rehabilitation Counselor, Veterans Rehabilitation Counselor, Vocational Rehabilitation Counselor

21-1019 Counselors, All Other
All counselors not listed separately.

Illustrative examples: Anger Control Counselor, Grief Counselor, Sexual Assault Counselor

21-1021 Child, Family, and School Social Workers
Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family well-being and the academic functioning of children. May assist parents, arrange adoptions, and find foster homes for abandoned or abused children. In schools, they address such problems as teenage pregnancy, misbehavior, and truancy. May also advise teachers.

Illustrative examples: Certified Children, Youth, and Family Social Worker; Child Abuse Worker; Foster Care worker

21-1022 Healthcare Social Workers
Provide individuals, families, and groups with the psychosocial support needed to cope with chronic, acute, or terminal illnesses. Services include advising family care givers, providing patient education and counseling, and making referrals for other services. May also provide care and case management or interventions designed to promote health, prevent disease, and address barriers to access to healthcare.

Illustrative examples: Hospice Social Worker, Oncology Social Worker, Public Health Social Worker

21-1023 Mental Health and Substance Abuse Social Workers
Assess and treat individuals with mental, emotional, or substance abuse problems, including abuse of alcohol, tobacco, and/or other drugs. Activities may include individual and group therapy, crisis intervention, case management, client advocacy, prevention, and education.

Illustrative examples: Community Mental Health Social Worker, Drug Abuse Social Worker, Psychiatric Social Worker

21-1029 Social Workers, All Other
All social workers not listed separately.

Illustrative examples: Criminal Justice Social Worker, Forensic Social Worker, Sexual Assault Social Worker

21-1091 Health Educators
Provide and manage health education programs that help individuals, families, and their communities maximize and maintain healthy lifestyles. Collect and analyze data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies, and environments. May serve as a resource to assist individuals, other healthcare workers, or the community, and may administer fiscal resources for health education programs. Excludes “Community Health Workers” (21-1094).

Illustrative examples: Community Health Education Coordinator, Diabetes Educator, Public Health Educator

21-1092 Probation Officers and Correctional Treatment Specialists
Provide social services to assist in rehabilitation of law offenders in custody or on probation or parole. Make recommendations for actions involving formulation of rehabilitation plan and treatment of offender, including conditional release and education and employment stipulations.

Illustrative examples: Juvenile Probation Officer, Parole Agent, Parole Officer

21-1093 Social and Human Service Assistants
Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services. May assist social workers with developing, organizing, and conducting programs to prevent and resolve problems relevant to substance abuse, human relationships, rehabilitation, or dependent care. Excludes "Rehabilitation Counselors" (21-1015), "Psychiatric Technicians" (29-2053), "Personal Care Aides" (39-9021), and "Eligibility Interviewers, Government Programs" (43-4061).

Illustrative examples: Case Work Aide, Family Service Assistant, Human Services Worker

21-1094 Community Health Workers
Assist individuals and communities to adopt healthy behaviors. Conduct outreach for medical personnel or health organizations to implement programs in the community that promote, maintain, and improve individual and community health. May provide information on available resources, provide social support and informal counseling, advocate for individuals and community health needs, and provide services such as first aid and blood pressure screening. May collect data to help identify community health needs. Excludes “Health Educators” (21-1091).

Illustrative examples: Lay Health Advocate, Peer Health Promoter

21-1099 Community and Social Service Specialists, All Other
All community and social service specialists not listed separately.

Illustrative examples: Community Organization Worker, Veterans Service Officer

21-2000 Religious Workers

21-2011 Clergy
Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members.

Illustrative examples: Imam, Priest, Rabbi

21-2021 Directors, Religious Activities and Education
Plan, direct, or coordinate programs designed to promote the religious education or activities of a denominational group. May provide counseling and guidance relative to marital, health, financial, and religious problems.

Illustrative examples: Religious Education Director, Youth Ministry Director

21-2099 Religious Workers, All Other
All religious workers not listed separately.

Illustrative examples: Missionary, Mohel, Verger

23-1000 Lawyers, Judges, and Related Workers

23-1011 Lawyers
Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.

Illustrative examples: Attorney, Corporate Counsel, Public Defender

23-1012 Judicial Law Clerks
Assist judges in court or by conducting research or preparing legal documents. Excludes "Lawyers" (23-1011) and "Paralegals and Legal Assistants" (23-2011).

Illustrative example: Judicial Clerk

23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers
Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters. Determine liability, sanctions, or penalties, or recommend the acceptance or rejection of claims or settlements. Excludes “Arbitrators, Mediators, and Conciliators” (23-1022).

Illustrative example: Appeals Examiner, Justice of the Peace, Traffic Court Referee

23-1022 Arbitrators, Mediators, and Conciliators
Facilitate negotiation and conflict resolution through dialogue. Resolve conflicts outside of the court system by mutual consent of parties involved.

Illustrative examples: Alternative Dispute Resolution Coordinator, Mediation Commissioner, Ombudsman

23-1023 Judges, Magistrate Judges, and Magistrates
Arbitrate, advise, adjudicate, or administer justice in a court of law. May sentence defendant in criminal cases according to government statutes or sentencing guidelines. May determine liability of defendant in civil cases. May perform wedding ceremonies.

Illustrative example: Circuit Court Judge, Justice, Tribal Judge

23-2000 Legal Support Workers

23-2011 Paralegals and Legal Assistants
Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action. Excludes "Legal Secretaries" (43-6012).

Illustrative example: Legal Aide

23-2091 Court Reporters
Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers.

Illustrative examples: Court Stenographer, Court Transcriber, Deposition Reporter

23-2093 Title Examiners, Abstractors, and Searchers
Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies.

Illustrative example: Escrow Officer, Lien Searcher, Title Officer

23-2099 Legal Support Workers, All Other
All legal support workers not listed separately.

Illustrative example: Legal Technician

25-1000 Postsecondary Teachers

25-1011 Business Teachers, Postsecondary
Teach courses in business administration and management, such as accounting, finance, human resources, labor and industrial relations, marketing, and operations research. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Accounting Professor, Finance Professor, Marketing Professor

25-1021 Computer Science Teachers, Postsecondary
Teach courses in computer science. May specialize in a field of computer science, such as the design and function of computers or operations and research analysis. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative example: Computer Information Systems Professor, Information Technology Professor, Java Programming Professor

25-1022 Mathematical Science Teachers, Postsecondary
Teach courses pertaining to mathematical concepts, statistics, and actuarial science and to the application of original and standardized mathematical techniques in solving specific problems and situations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Actuarial Sciences Professor, Calculus Professor, Statistics Professor

25-1031 Architecture Teachers, Postsecondary
Teach courses in architecture and architectural design, such as architectural environmental design, interior architecture/design, and landscape architecture. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Architectural Design Professor, Landscape Architecture Professor

25-1032 Engineering Teachers, Postsecondary
Teach courses pertaining to the application of physical laws and principles of engineering for the development of machines, materials, instruments, processes, and services. Includes teachers of subjects such as chemical, civil, electrical, industrial, mechanical, mineral, and petroleum engineering. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Computer Science Teachers, Postsecondary" (25-1021).

Illustrative examples: Aeronautical Engineering Professor, Civil Engineering Professor, Electrical Engineering Professor, Marine Engineering Professor

25-1041 Agricultural Sciences Teachers, Postsecondary
Teach courses in the agricultural sciences. Includes teachers of agronomy, dairy sciences, fisheries management, horticultural sciences, poultry sciences, range management, and agricultural soil conservation. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes “Forestry and Conservation Science Teachers, Postsecondary” (25-1043).

Illustrative examples: Agronomy Professor, Aquaculture and Fisheries Professor, Farm Management Professor

25-1042 Biological Science Teachers, Postsecondary
Teach courses in biological sciences. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Bacteriology Professor, Biochemistry Professor, Botany Professor

25-1043 Forestry and Conservation Science Teachers, Postsecondary
Teach courses in forestry and conservation science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research. Excludes "Agricultural Science Teachers, Postsecondary" (25-1041) and “Environmental Science Teachers, Postsecondary” (25-1053).

Illustrative examples: Forest Ecology Professor, Timber Management Professor, Wildlife Conservation Professor

25-1051 Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary
Teach courses in the physical sciences, except chemistry and physics. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research.

Illustrative examples: Climatology Professor, Geology Professor, Oceanography Professor

25-1052 Chemistry Teachers, Postsecondary
Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Work may include instruction in the methods of qualitative and quantitative chemical analysis. Includes both teachers primarily engaged in teaching, and those who do a combination of teaching and research. Excludes "Biological Science Teachers, Postsecondary" (25-1042) who teach biochemistry.

Illustrative examples: Inorganic Chemistry Professor, Organic Chemistry Professor, Physical Chemistry Professor

25-1053 Environmental Science Teachers, Postsecondary
Teach courses in environmental science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Environmental Science, Management, and Policy Professor; Environmental Studies Professor

25-1054 Physics Teachers, Postsecondary
Teach courses pertaining to the laws of matter and energy. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Astrophysics Professor, Ballistics Professor, Hydrodynamics Professor, Thermodynamics Professor

25-1061 Anthropology and Archeology Teachers, Postsecondary
Teach courses in anthropology or archeology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Cultural Anthropology Professor, Ethnoarchaeology Professor, Paleology Professor

25-1062 Area, Ethnic, and Cultural Studies Teachers, Postsecondary
Teach courses pertaining to the culture and development of an area, an ethnic group, or any other group, such as Latin American studies, women’s studies, or urban affairs. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Ethnology Professor, Latin American Studies Professor, Women’s Studies Professor

25-1063 Economics Teachers, Postsecondary
Teach courses in economics. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Agricultural Economics Professor, Econometrics Professor, Labor Economics Professor

25-1064 Geography Teachers, Postsecondary
Teach courses in geography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Cartography Professor, Geomatics Professor, GIS Professor

25-1065 Political Science Teachers, Postsecondary
Teach courses in political science, international affairs, and international relations. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Government Professor, International Relations Professor, Public Policy Professor

25-1066 Psychology Teachers, Postsecondary
Teach courses in psychology, such as child, clinical, and developmental psychology, and psychological counseling. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Child Development Professor, Educational Psychology Professor, Industrial/Organizational Psychology Professor

25-1067 Sociology Teachers, Postsecondary
Teach courses in sociology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative example: Comparative Sociology Professor

25-1069 Social Sciences Teachers, Postsecondary, All Other
All postsecondary social sciences teachers not listed separately.

Illustrative examples: Survey Research Professor, Urban Planning Professor

25-1071 Health Specialties Teachers, Postsecondary
Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy, and veterinary medicine. Excludes "Nursing Instructors and Teachers, Postsecondary" (25-1072) and "Biological Science Teachers, Postsecondary" (25-1042) who teach medical science.

Illustrative examples: Nutrition Professor, Pharmacology Professor, Public Health Professor

25-1072 Nursing Instructors and Teachers, Postsecondary
Demonstrate and teach patient care in classroom and clinical units to nursing students. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Advanced Nursing Professor, Clinical Nursing Professor, Registered Nursing Professor

25-1081 Education Teachers, Postsecondary
Teach courses pertaining to education, such as counseling, curriculum, guidance, instruction, teacher education, and teaching English as a second language. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Primary Education Professor, Special Education Professor

25-1082 Library Science Teachers, Postsecondary
Teach courses in library science. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Library and Information Science Professor, Medical Records Library Professor

25-1111 Criminal Justice and Law Enforcement Teachers, Postsecondary
Teach courses in criminal justice, corrections, and law enforcement administration. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Criminology Professor, Penology Professor

25-1112 Law Teachers, Postsecondary
Teach courses in law. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Constitutional Law Professor, Environmental Law Professor, Torts Law Professor

25-1113 Social Work Teachers, Postsecondary
Teach courses in social work. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Family Welfare Social Work Professor, Geriatric Social Work Professor, Health Social Work Professor

25-1121 Art, Drama, and Music Teachers, Postsecondary
Teach courses in drama, music, and the arts including fine and applied art, such as painting and sculpture, or design and crafts. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Ballet Professor, Photography Professor, Piano Professor

25-1122 Communications Teachers, Postsecondary
Teach courses in communications, such as organizational communications, public relations, radio/television broadcasting, and journalism. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Journalism Professor, Public Speaking Professor

25-1123 English Language and Literature Teachers, Postsecondary
Teach courses in English language and literature, including linguistics and comparative literature. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Contemporary English Literature Professor, Creative Writing English Professor, Etymology Professor

25-1124 Foreign Language and Literature Teachers, Postsecondary
Teach languages and literature courses in languages other than English. Includes teachers of American Sign Language (ASL). Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Chinese Language Professor, Russian Language Professor, Spanish Literature Professor

25-1125 History Teachers, Postsecondary
Teach courses in human history and historiography. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: African History Professor, American History Professor, Jewish History Professor, Russian History Professor

25-1126 Philosophy and Religion Teachers, Postsecondary
Teach courses in philosophy, religion, and theology. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Divinity Professor, Eastern Philosophy Professor, Theology Professor

25-1191 Graduate Teaching Assistants
Assist faculty or other instructional staff in postsecondary institutions by performing teaching or teaching-related duties, such as teaching lower level courses, developing teaching materials, preparing and giving examinations, and grading examinations or papers. Graduate teaching assistants must be enrolled in a graduate school program. Graduate assistants who primarily perform non-teaching duties, such as research, should be reported in the occupational category related to the work performed. Excludes “Teacher Assistants” (25-9041).

Illustrative examples: Graduate Student Instructor, Teaching Fellow

25-1192 Home Economics Teachers, Postsecondary
Teach courses in childcare, family relations, finance, nutrition, and related subjects pertaining to home management. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Family and Consumer Sciences Professor, Weaving Professor

25-1193 Recreation and Fitness Studies Teachers, Postsecondary

Teach courses pertaining to recreation, leisure, and fitness studies, including exercise physiology and facilities management. Includes both teachers primarily engaged in teaching and those who do a combination of teaching and research.

Illustrative examples: Kinesiology Professor, Leisure Studies Professor, Physical Education (PE) Professor

25-1194 Vocational Education Teachers, Postsecondary
Teach or instruct vocational or occupational subjects at the postsecondary level (but at less than the baccalaureate) to students who have graduated or left high school. Includes correspondence school, industrial, and commercial instructors; and adult education teachers and instructors who prepare persons to operate industrial machinery and equipment and transportation and communications equipment. Teaching may take place in public or private schools whose primary business is education or in a school associated with an organization whose primary business is other than education.

Illustrative examples: Barbering Instructor, Cosmetology Professor, Mechanical Maintenance Instructor

25-1199 Postsecondary Teachers, All Other
All postsecondary teachers not listed separately.

Illustrative examples: Military Science Teacher, Project Management Professor

25-2000 Preschool, Primary, Secondary, and Special Education School Teachers

25-2011 Preschool Teachers, Except Special Education
Instruct preschool-aged children in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes "Childcare Workers" (39-9011) and "Special Education Teachers" (25-2050).

Illustrative examples: Head Start Teacher, Nursery School Teacher, Pre-Kindergarten Teacher

25-2012 Kindergarten Teachers, Except Special Education
Teach elemental natural and social science, personal hygiene, music, art, and literature to kindergarten students. Promote physical, mental, and social development. May be required to hold State certification. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes "Special Education Teachers" (25-2050).

Illustrative example: Bilingual Kindergarten Teacher

25-2021 Elementary School Teachers, Except Special Education
Teach students basic academic, social, and other formative skills in public or private schools at the elementary level. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes "Special Education Teachers" (25-2050).

Illustrative examples: Elementary School Band Director, 4th Grade Math Teacher

25-2022 Middle School Teachers, Except Special and Career/Technical Education
Teach students in one or more subjects in public or private schools at the middle, intermediate, or junior high level, which falls between elementary and senior high school as defined by applicable laws and

regulations. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes "Career/Technical Education Teachers, Middle School" (25-2023) and "Special Education Teachers" (25-2050).

Illustrative examples: Junior High School Teacher, Middle School Science Teacher, 7th Grade Social Studies Teacher

25-2023 Career/Technical Education Teachers, Middle School
Teach occupational, career and technical, or vocational subjects in public or private schools at the middle, intermediate, or junior high level, which falls between elementary and senior high school as defined by applicable laws and regulations. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes "Special Education Teachers" (25-2050).

Illustrative example: Middle School Vocational Education Teacher

25-2031 Secondary School Teachers, Except Special and Career/Technical Education
Teach students in one or more subjects, such as English, mathematics, or social studies at the secondary level in public or private schools. May be designated according to subject matter specialty. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes "Career/Technical Education Teachers, Secondary School" (25-2032) and "Special Education Teachers" (25-2050).

Illustrative examples: High School English Teacher, High School French Teacher, High School History Teacher

25-2032 Career/Technical Education Teachers, Secondary School
Teach occupational, career and technical, or vocational subjects at the secondary school level in public or private schools. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099). Excludes “Special Education Teachers, Secondary School” (25-2054).

Illustrative examples: High School Auto Repair Teacher, High School Vocational Education Teacher

25-2051 Special Education Teachers, Preschool
Teach preschool school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099).

Illustrative examples: Early Childhood Special Education Teacher, Pre-Kindergarten Special Education Teacher

25-2052 Special Education Teachers, Kindergarten and Elementary School
Teach elementary school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099).

Illustrative examples: Severe Emotional Disorders Elementary School Teacher, Special Education Kindergarten Teacher

25-2053 Special Education Teachers, Middle School

Teach middle school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099).

Illustrative examples: Middle School Special Education Teacher, Middle School Teacher for Students with Moderate Intellectual Disabilities

25-2054 Special Education Teachers, Secondary School
Teach secondary school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. Substitute teachers are included in "Teachers and Instructors, All Other" (25-3099).

Illustrative examples: High School Learning Support Teacher, High School Special Education Teacher

25-2059 Special Education Teachers, All Other
All special education teachers not listed separately.

Illustrative examples: Autism Tutor, Special Education Teacher for Adults with Disabilities

25-3011 Adult Basic and Secondary Education and Literacy Teachers and Instructors
Teach or instruct out-of-school youths and adults in remedial education classes, preparatory classes for the General Educational Development test, literacy, or English as a Second Language. Teaching may or may not take place in a traditional educational institution.

Illustrative examples: Adult Education Teacher, Adult Literacy Instructor, Generalized Educational Development (GED) Teacher

25-3021 Self-Enrichment Education Teachers
Teach or instruct courses other than those that normally lead to an occupational objective or degree. Courses may include self-improvement, nonvocational, and nonacademic subjects. Teaching may or may not take place in a traditional educational institution. Excludes “Fitness Trainers and Aerobics Instructors” (39-9031). Flight instructors are included with “Aircraft Pilots and Flight Engineers” (53-2010).

Illustrative examples: Citizenship Teacher, Horseback Riding Instructor, Sailing Instructor

25-3098 Substitute Teachers
Teach students in a public or private school when the regular teacher is unavailable.

25-3099 Teachers and Instructors, All Other
All teachers and instructors not listed separately.

Illustrative example: Tutor, Substitute Teacher

25-4000 Librarians, Curators, and Archivists

25-4011 Archivists
Appraise, edit, and direct safekeeping of permanent records and historically valuable documents. Participate in research activities based on archival materials.

Illustrative examples: Film Archivist, Historical Records Administrator, Reference Archivist

25-4012 Curators
Administer collections, such as artwork, collectibles, historic items, or scientific specimens of museums or other institutions. May conduct instructional, research, or public service activities of institution.

Illustrative examples: Herbarium Curator, Photography and Prints Curator

25-4013 Museum Technicians and Conservators
Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. May work with specimens such as fossils, skeletal parts, or botanicals; or artifacts, textiles, or art. May identify and record objects or install and arrange them in exhibits. Includes book or document conservators.

Illustrative examples: Ethnographic Materials Conservator, Museum Exhibit Technician, Textile Conservator

25-4021 Librarians
Administer libraries and perform related library services. Work in a variety of settings, including public libraries, educational institutions, museums, corporations, government agencies, law firms, non-profit organizations, and healthcare providers. Tasks may include selecting, acquiring, cataloguing, classifying, circulating, and maintaining library materials; and furnishing reference, bibliographical, and readers' advisory services. May perform in-depth, strategic research, and synthesize, analyze, edit, and filter information. May set up or work with databases and information systems to catalogue and access information.

Illustrative examples: Law Librarian, Music Librarian, School Librarian

25-4031 Library Technicians
Assist librarians by helping readers in the use of library catalogs, databases, and indexes to locate books and other materials; and by answering questions that require only brief consultation of standard reference. Compile records; sort and shelve books or other media; remove or repair damaged books or other media; register patrons; and check materials in and out of the circulation process. Replace materials in shelving area (stacks) or files. Includes bookmobile drivers who assist with providing services in mobile libraries.

Illustrative examples: Library Acquisitions Technician, Library Circulation Technician

25-9000 Other Education, Training, and Library Occupations

25-9011 Audio-Visual and Multimedia Collections Specialists
Prepare, plan, and operate multimedia teaching aids for use in education. May record, catalogue, and file materials.

Illustrative examples: Audio-Visual Collections Coordinator, Library Media Specialist, Multimedia Services Coordinator

25-9021 Farm and Home Management Advisors
Advise, instruct, and assist individuals and families engaged in agriculture, agricultural-related processes, or home economics activities. Demonstrate procedures and apply research findings to solve problems; and instruct and train in product development, sales, and the use of machinery and equipment to promote

general welfare. Includes county agricultural agents, feed and farm management advisors, home economists, and extension service advisors.

Illustrative examples: Agricultural Extension Educator, Family Resource Management Specialist, Feed Management Advisor

25-9031 Instructional Coordinators
Develop instructional material, coordinate educational content, and incorporate current technology in specialized fields that provide guidelines to educators and instructors for developing curricula and conducting courses. Includes educational consultants and specialists, and instructional material directors.

Illustrative examples: Curriculum and Assessment Director, Curriculum Specialist, Special Education Curriculum Specialist

25-9041 Teacher Assistants
Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher has ultimate responsibility for the design and implementation of educational programs and services. Excludes "Graduate Teaching Assistants" (25-1191).

Illustrative examples: Instructional Aide, Special Education Classroom Aide

25-9099 Education, Training, and Library Workers, All Other
All education, training, and library workers not listed separately.

Illustrative examples: General Educational Development (GED) Examiner, Individualized Education Plan (IEP) Aide, Scholastic Aptitude Test (SAT) Grader

27-1000 Art and Design Workers

27-1011 Art Directors
Formulate design concepts and presentation approaches for visual communications media, such as print, broadcasting, and advertising. Direct workers engaged in art work or layout design.

Illustrative example: Magazine Designer

27-1012 Craft Artists
Create or reproduce hand-made objects for sale and exhibition using a variety of techniques, such as welding, weaving, pottery, and needlecraft.

Illustrative examples: Hand Potter, Metal Arts Production Artist, Quilter

27-1013 Fine Artists, Including Painters, Sculptors, and Illustrators
Create original artwork using any of a wide variety of media and techniques.

Illustrative examples: Ice Sculptor, Political Cartoonist, Scientific Illustrator, Sketch Artist

27-1014 Multimedia Artists and Animators
Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials.

Illustrative examples: Special Effects Artist, 3D Animator

27-1019 Artists and Related Workers, All Other
All artists and related workers not listed separately.

Illustrative examples: Calligrapher, Tattoo Artist

27-1021 Commercial and Industrial Designers
Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.

Illustrative examples: Automobile Designer, Package Designer

27-1022 Fashion Designers
Design clothing and accessories. Create original designs or adapt fashion trends.

Illustrative examples: Costume Designer, Custom Furrier, Dress Designer

27-1023 Floral Designers
Design, cut, and arrange live, dried, or artificial flowers and foliage.

Illustrative examples: Corsage Maker, Florist, Flower Arranger

27-1024 Graphic Designers
Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects.

Illustrative examples: Catalogue Illustrator, Graphic Artist

27-1025 Interior Designers
Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style. May specialize in a particular field, style, or phase of interior design. Excludes "Merchandise Displayers and Window Trimmers" (27-1026).

Illustrative examples: Home Lighting Advisor, Interior Decorator, Kitchen Designer

27-1026 Merchandise Displayers and Window Trimmers
Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions.

Illustrative examples: Display Artist, Mannequin Decorator, Window Decorator

27-1027 Set and Exhibit Designers
Design special exhibits and movie, television, and theater sets. May study scripts, confer with directors, and conduct research to determine appropriate architectural styles.

Illustrative examples: Set Decorator, Stage Scenery Designer

27-1029 Designers, All Other
All designers not listed separately.

Illustrative example: Memorial Marker Designer

27-2000 Entertainers and Performers, Sports and Related Workers

27-2011 Actors
Play parts in stage, television, radio, video, motion picture productions, or other settings for entertainment, information, or instruction. Interpret serious or comic role by speech, gesture, and body movement to entertain or inform audience. May dance and sing.

Illustrative examples: Actress, Dramatic Reader, Voice-Over Artist

27-2012 Producers and Directors
Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography.

Illustrative examples: Casting Director, Independent Film Maker, Stage Manager

27-2021 Athletes and Sports Competitors
Compete in athletic events.

Illustrative examples: Football Player, Jockey, Race Car Driver

27-2022 Coaches and Scouts
Instruct or coach groups or individuals in the fundamentals of sports. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve the athletes' technique to prepare them for competition. Those required to hold teaching degrees should be reported in the appropriate teaching category. Excludes "Athletic Trainers" (29-9091).

Illustrative examples: Baseball Scout, Boxing Trainer, Football Coach

27-2023 Umpires, Referees, and Other Sports Officials
Officiate at competitive athletic or sporting events. Detect infractions of rules and decide penalties according to established regulations. Includes all sporting officials, referees, and competition judges.

Illustrative examples: Athletic Events Scorer, Paddock Judge, Race Starter

27-2031 Dancers
Perform dances. May perform on stage, for on-air broadcasting, or for video recording

Illustrative examples: Ballerina, Dance Artist, Tap Dancer

27-2032 Choreographers
Create new dance routines. Rehearse performance of routines. May direct and stage presentations.

Illustrative examples: Dance Director, Dance Master

27-2041 Music Directors and Composers
Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, bands, choirs, and glee clubs. Includes arrangers, composers, choral directors, and orchestrators.

Illustrative examples: Choirmaster, Jingle Writer, Orchestra Conductor, Songwriter

27-2042 Musicians and Singers
Play one or more musical instruments or sing. May perform on stage, for on-air broadcasting, or for sound or video recording.

Illustrative examples: Instrumentalist, Oboist, Rapper

27-2099 Entertainers and Performers, Sports and Related Workers, All Other
All entertainers and performers, sports and related workers not listed separately.

Illustrative examples: Clown, Comedian, Magician

27-3000 Media and Communication Workers

27-3011 Radio and Television Announcers
Speak or read from scripted materials, such as news reports or commercial messages, on radio or television. May announce artist or title of performance, identify station, or interview guests. Excludes “Broadcast News Analysts” (27-3021).

Illustrative examples: Game Show Host, Radio Disk Jockey, Talk Show Host

27-3012 Public Address System and Other Announcers
Make announcements over public address system at sporting or other public events. May act as master of ceremonies or disc jockey at weddings, parties, clubs, or other gathering places.

Illustrative examples: Emcee, Ringmaster, Train Caller

27-3021 Broadcast News Analysts
Analyze, interpret, and broadcast news received from various sources.

Illustrative examples: News Anchor, Newscaster, News Commentator

27-3022 Reporters and Correspondents
Collect and analyze facts about newsworthy events by interview, investigation, or observation. Report and write stories for newspaper, news magazine, radio, or television. Excludes "Broadcast News Analysts" (27-3021).

Illustrative examples: Columnist, Film Critic, Foreign Correspondent

27-3031 Public Relations Specialists
Engage in promoting or creating an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media.

Illustrative examples: Lobbyist, Press Secretary, Publicity Writer

27-3041 Editors
Plan, coordinate, or edit content of material for publication. May review proposals and drafts for possible publication. Includes technical editors.

Illustrative examples: Advertising Editor, Copy Editor, Technical Editor

27-3042 Technical Writers
Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.

Illustrative examples: Documentation Writer, Medical Writer, Specifications Writer

27-3043 Writers and Authors
Originate and prepare written material, such as scripts, stories, advertisements, and other material. Excludes "Public Relations Specialists" (27-3031) and "Technical Writers" (27-3042).

Illustrative examples: Advertising Copy Writer, Playwright, Television Writer

27-3091 Interpreters and Translators
Interpret oral or sign language, or translate written text from one language into another.

Illustrative examples: American Sign Language Interpreter, Court Interpreter, Diplomatic Interpreter

27-3099 Media and Communication Workers, All Other
All media and communication workers not listed separately.

Illustrative example: Stage Technician

27-4000 Media and Communication Equipment Workers

27-4011 Audio and Video Equipment Technicians
Set up, or set up and operate audio and video equipment including microphones, sound speakers, video screens, projectors, video monitors, recording equipment, connecting wires and cables, sound and mixing boards, and related electronic equipment for concerts, sports events, meetings and conventions, presentations, and news conferences. May also set up and operate associated spotlights and other custom lighting systems. Excludes "Sound Engineering Technicians" (27-4014).

Illustrative examples: Multimedia Production Assistant, Video Control Operator, Video Production Assistant

27-4012 Broadcast Technicians

Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during radio and television broadcasts. Operate transmitter to broadcast radio or television programs.

Illustrative examples: Audio Engineer, Broadcast Engineer

27-4013 Radio Operators
Receive and transmit communications using radiotelephone equipment in accordance with government regulations. May repair equipment. Excludes "Radio, Cellular, and Tower Equipment Installers and Repairs" (49-2021).

Illustrative examples: Radio Officer, Radiophone Operator

27-4014 Sound Engineering Technicians
Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions.

Illustrative examples: Audio Recording Engineer, Sound Editor, Sound Effects Technician

27-4021 Photographers
Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computer software to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists.

Illustrative examples: Marine Photographer, Medical Photographer, Wedding Photographer

27-4031 Camera Operators, Television, Video, and Motion Picture
Operate television, video, or motion picture camera to record images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.

Illustrative examples: Cinematographer, News Videographer

27-4032 Film and Video Editors
Edit moving images on film, video, or other media. May edit or synchronize soundtracks with images. Excludes "Sound Engineering Technicians"(27-4014).

Illustrative examples: Cue Selector, Film Editor, Television News Video Editor

27-4099 Media and Communication Equipment Workers, All Other
All media and communication equipment workers not listed separately.

Illustrative examples: Dimmer Board Operator, Satellite Communications Operator, Spotlight Operator

29-1000 Health Diagnosing and Treating Practitioners

29-1011 Chiropractors
Assess, treat, and care for patients by manipulation of spine and musculoskeletal system. May provide spinal adjustment or address sacral or pelvic misalignment.

Illustrative example: Chiropractic Physician

29-1021 Dentists, General
Examine, diagnose, and treat diseases, injuries, and malformations of teeth and gums. May treat diseases of nerve, pulp, and other dental tissues affecting oral hygiene and retention of teeth. May fit dental appliances or provide preventive care. Excludes "Prosthodontists" (29-1024), "Orthodontists" (29-1023), "Oral and Maxillofacial Surgeons" (29-1022) and "Dentists, All Other Specialists" (29-1029).

Illustrative example: Family Dentist

29-1022 Oral and Maxillofacial Surgeons
Perform surgery and related procedures on the hard and soft tissues of the oral and maxillofacial regions to treat diseases, injuries, or defects. May diagnose problems of the oral and maxillofacial regions. May perform surgery to improve function or appearance.

Illustrative example: Dental Surgeon

29-1023 Orthodontists
Examine, diagnose, and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance.

Illustrative example: Dentofacial Orthopedics Dentist, Invisible Braces Orthodontist, Pediatric Orthodontist

29-1024 Prosthodontists
Construct oral prostheses to replace missing teeth and other oral structures to correct natural and acquired deformation of mouth and jaws, to restore and maintain oral function, such as chewing and speaking, and to improve appearance.

Illustrative examples: Maxillofacial Prosthetics Dentist, Reconstructive Dentist

29-1029 Dentists, All Other Specialists
All dentists not listed separately.

Illustrative examples: Endodontist, Oral Pathologist, Periodontist

29-1031 Dietitians and Nutritionists
Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research.

Illustrative examples: Clinical Dietitian, Pediatric Dietitian, Public Health Nutritionist

29-1041 Optometrists
Diagnose, manage, and treat conditions and diseases of the human eye and visual system. Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses, and provide treatment. May prescribe therapeutic drugs to treat specific eye conditions. Ophthalmologists are included in “Physicians and Surgeons, All Other” (29-1069).

Illustrative example: Doctor of Optometry

29-1051 Pharmacists
Dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use. May advise physicians and other health practitioners on the selection, dosage, interactions, and side effects of medications.

Illustrative examples: Apothecary, Hospital Pharmacist

29-1061 Anesthesiologists
Physicians who administer anesthetics prior to, during, or after surgery or other medical procedures.

Illustrative example: Obstetrical Anesthesiologist

29-1062 Family and General Practitioners
Physicians who diagnose, treat, and help prevent diseases and injuries that commonly occur in the general population. May refer patients to specialists when needed for further diagnosis or treatment.

Illustrative example: Family Practice Physician

29-1063 Internists, General
Physicians who diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems. Provide care mainly for adults who have a wide range of problems associated with the internal organs. Subspecialists, such as cardiologists and gastroenterologists, are included in "Physicians and Surgeons, All Other" (29-1069).

Illustrative example: Internal Medicine Physician

29-1064 Obstetricians and Gynecologists
Physicians who provide medical care related to pregnancy or childbirth and those who diagnose, treat, and help prevent diseases of women, particularly those affecting the reproductive system. May also provide general medical care to women.

Illustrative examples: OB/GYN, OB Specialist

29-1065 Pediatricians, General
Physicians who diagnose, treat, and help prevent children's diseases and injuries.

Illustrative examples: Paediatrician, Pediatrist, Primary Care Pediatrician

29-1066 Psychiatrists
Physicians who diagnose, treat, and help prevent disorders of the mind.

Illustrative examples: Addiction Psychiatrist, Geriatric Psychiatrist, Neuropsychiatrist

29-1067 Surgeons
Physicians who treat diseases, injuries, and deformities by invasive, minimally-invasive, or non-invasive surgical methods, such as using instruments, appliances, or by manual manipulation. Excludes “Oral and Maxillofacial Surgeons” (29-1022).

Illustrative examples: Cardiovascular Surgeon, Orthopedic Surgeon, Plastic Surgeon, Thoracic Surgeon

29-1069 Physicians and Surgeons, All Other
All physicians and surgeons not listed separately.

Illustrative examples: Cardiologist, Dermatologist, Gastroenterologist, Ophthalmologist

29-1071 Physician Assistants
Provide healthcare services typically performed by a physician, under the supervision of a physician. Conduct complete physicals, provide treatment, and counsel patients. May, in some cases, prescribe medication. Must graduate from an accredited educational program for physician assistants. Excludes "Emergency Medical Technicians and Paramedics" (29-2041), "Medical Assistants" (31-9092), "Registered Nurses" (29-1141), “Nurse Anesthetists” (29-1151), “Nurse Midwives” (29-1161), and “Nurse Practitioners” (29-1171).

Illustrative examples: Anesthesiologist Assistant, Family Practice Physician Assistant

29-1081 Podiatrists
Diagnose and treat diseases and deformities of the human foot.

Illustrative examples: Chiropodist, Foot Doctor, Foot Orthopedist

29-1122 Occupational Therapists
Assess, plan, organize, and participate in rehabilitative programs that help build or restore vocational, homemaking, and daily living skills, as well as general independence, to persons with disabilities or developmental delays.

Illustrative examples: Registered Occupational Therapist

29-1123 Physical Therapists
Assess, plan, organize, and participate in rehabilitative programs that improve mobility, relieve pain, increase strength, and improve or correct disabling conditions resulting from disease or injury.

Illustrative examples: Geriatric Physical Therapist, Physiotherapist, Pulmonary Physical Therapist

29-1124 Radiation Therapists
Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards. Duties may include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment, and protection devices; and maintaining records, reports, and files. May assist in dosimetry procedures and tumor localization.

Illustrative examples: Dosimetrist, Radiation Therapy Technologist

29-1125 Recreational Therapists
Plan, direct, or coordinate medically-approved recreation programs for patients in hospitals, nursing homes, or other institutions. Activities include sports, trips, dramatics, social activities, and arts and crafts. May assess a patient condition and recommend appropriate recreational activity. Excludes “Recreation Workers” (39-9032).

Illustrative examples: Certified Recreational Therapist, Drama Therapist, Therapeutic Recreation Specialist

29-1126 Respiratory Therapists
Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.

Illustrative examples: Inhalation Therapist, Oxygen Therapist, Registered Respiratory Therapist

29-1127 Speech-Language Pathologists
Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems.

Illustrative examples: Public School Speech Therapist, Speech Clinician, Speech Therapist

29-1128 Exercise Physiologists
Assess, plan, or implement fitness programs that include exercise or physical activities such as those designed to improve cardiorespiratory function, body composition, muscular strength, muscular endurance, or flexibility. Excludes "Physical Therapists" (29-1123), "Athletic Trainers" (29-9091), and "Fitness Trainers and Aerobic Instructors" (39-9031).

Illustrative examples: Applied Exercise Physiologist, Clinical Exercise Physiologist, Kinesiotherapist

29-1129 Therapists, All Other
All therapists not listed separately.

Illustrative examples: Hydrotherapist, Music Therapist

29-1155 Speech-Language Pathologists, Non R&D
Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use.

29-1156 Speech-Language Pathologists, R&D
These persons spend the majority of their time researching speech and language problems.

29-1131 Veterinarians
Diagnose, treat, or research diseases and injuries of animals. Includes veterinarians who conduct research and development, inspect livestock, or care for pets and companion animals.

Illustrative examples: Animal Surgeon, Doctor of Veterinary Medicine (DVM), Veterinary Medicine Scientist, Wildlife Veterinarian

29-1141 Registered Nurses
Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration

required. Includes Clinical Nurse Specialists. Excludes "Nurse Anesthetists" (29-1151), "Nurse Midwives" (29-1161), and "Nurse Practitioners" (29-1171).

Illustrative examples: Coronary Care Unit Nurse, Hospice Registered Nurse, Psychiatric Nurse

29-1151 Nurse Anesthetists
Administer anesthesia, monitor patient's vital signs, and oversee patient recovery from anesthesia. May assist anesthesiologists, surgeons, other physicians, or dentists. Must be registered nurses who have specialized graduate education.

Illustrative example: Certified Registered Nurse Anesthetist (CRNA)

29-1161 Nurse Midwives
Diagnose and coordinate all aspects of the birthing process, either independently or as part of a healthcare team. May provide well-woman gynecological care. Must have specialized, graduate nursing education.

Illustrative example: Certified Nurse Midwife (CNM)

29-1171 Nurse Practitioners
Diagnose and treat acute, episodic, or chronic illness, independently or as part of a healthcare team. May focus on health promotion and disease prevention. May order, perform, or interpret diagnostic tests such as lab work and x rays. May prescribe medication. Must be registered nurses who have specialized graduate education.

Illustrative examples: Cardiology Nurse Practitioner, Family Practice Nurse Practitioner, Gerontological Nurse Practitioner

29-1181 Audiologists
Assess and treat persons with hearing and related disorders. May fit hearing aids and provide auditory training. May perform research related to hearing problems.

Illustrative examples: Clinical Audiologist, Pediatric Audiologist

29-1199 Health Diagnosing and Treating Practitioners, All Other
All health diagnosing and treating practitioners not listed separately.

Illustrative examples: Acupuncturist, Hypnotherapist, Naturopathic Physician

29-2000 Health Technologists and Technicians

29-2011 Medical and Clinical Laboratory Technologists
Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.

Illustrative examples: Blood Bank Laboratory Technologist, Cytogenetic Technologist, Immunohematologist

29-2012 Medical and Clinical Laboratory Technicians
Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.

Illustrative examples: Histology Technician, Pathology Technician, Serology Technician

29-2021 Dental Hygienists
Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x rays, or apply fluoride or sealants.

Illustrative examples: Oral Hygienist, Registered Dental Hygienist

29-2031 Cardiovascular Technologists and Technicians
Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests. Includes vascular technologists.

Illustrative examples: Cardiac Catheterization Technologist, EKG Technician

29-2032 Diagnostic Medical Sonographers
Produce ultrasonic recordings of internal organs for use by physicians.

Illustrative examples: Echocardiographer, Registered Diagnostic Medical Sonographer, Ultrasound Technologist

29-2033 Nuclear Medicine Technologists
Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies following standard laboratory techniques.

Illustrative examples: Certified Nuclear Medicine Technologist, Nuclear Cardiology Technologist, Radioisotope Technologist

29-2034 Radiologic Technologists
Take x rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other scanning modalities. Excludes “Diagnostic Medical Sonographers”(29-2032) and “Magnetic Resonance Imaging Technologists” (29-2035).

Illustrative examples: Computed Tomography (CT) Scanner Operator, X-Ray Technician

29-2035 Magnetic Resonance Imaging Technologists
Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures. May administer gadolinium contrast dosage intravenously. May interview patient, explain MRI procedures, and position patient on examining table. May enter into the computer data such as patient history, anatomical area to be scanned, orientation specified, and position of entry.

Illustrative examples: Computed Tomography/Magnetic Resonance Imaging Technologist (CT/MRI) Technologist, MRI Technologist

29-2041 Emergency Medical Technicians and Paramedics
Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.

Illustrative examples: EMT, Flight Paramedic

29-2051 Dietetic Technicians
Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.

Illustrative examples: Dietary Technician, Registered Diet Technician

29-2052 Pharmacy Technicians
Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.

Illustrative examples: Certified Pharmacy Technician, Pharmacist Technician

29-2053 Psychiatric Technicians
Care for individuals with mental or emotional conditions or disabilities, following the instructions of physicians or other health practitioners. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral or injectable medications.

Illustrative examples: Behavioral Health Technician, Mental Health Technician

29-2054 Respiratory Therapy Technicians
Provide respiratory care under the direction of respiratory therapists and physicians.

Illustrative examples: Certified Respiratory Therapy Technician, Oxygen Therapy Technician

29-2055 Surgical Technologists
Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon's assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.

Illustrative examples: Certified Surgical Technologist, Operating Room (OR) Tech, Surgical Scrub Technologist

29-2056 Veterinary Technologists and Technicians
Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood

samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines. May assist a veterinarian during surgery.

Illustrative examples: Veterinary Laboratory Technician, Veterinary Surgery Technologist, Veterinary X-Ray Operator

29-2057 Ophthalmic Medical Technicians
Assist ophthalmologists by performing ophthalmic clinical functions. May administer eye exams, administer eye medications, and instruct the patient in care and use of corrective lenses.

Illustrative examples: Ocular Care Technologist, Ophthalmic Technologist

29-2061 Licensed Practical and Licensed Vocational Nurses
Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.

Illustrative examples: LVN, LPN, Pediatric Licensed Practical Nurse

29-2071 Medical Records and Health Information Technicians
Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the heath care system. Process, maintain, compile, and report patient information for health requirements and standards in a manner consistent with the healthcare industry's numerical coding system. Excludes "File Clerks" (43-4071).

Illustrative examples: Cancer Registrar, Health Information Coder, Health Information Systems Technician, Medical Records Specialist

29-2081 Opticians, Dispensing
Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with inserting, removing, and caring for contact lenses. Assist client with selecting frames. Measure customer for size of eyeglasses and coordinate frames with facial and eye measurements and optical prescription. Prepare work order for optical laboratory containing instructions for grinding and mounting lenses in frames. Verify exactness of finished lens spectacles. Adjust frame and lens position to fit client. May shape or reshape frames. Includes contact lens opticians.

Illustrative examples: Contact Lens Fitter, Eyeglass Fitter

29-2091 Orthotists and Prosthetists
Design, measure, fit, and adapt orthopedic braces, appliances or prostheses, such as limbs or facial parts for patients with disabling conditions.

Illustrative examples: Artificial Limb Fitter, Certified Orthotic Fitter, Pedorthist

29-2092 Hearing Aid Specialists

Select and fit hearing aids for customers. Administer and interpret tests of hearing. Assess hearing instrument efficacy. Take ear impressions and prepare, design, and modify ear molds. Excludes "Audiologists" (29-1181).

Illustrative examples: Hearing Aid Fitter, Hearing Aid Technician, Hearing Instrument Specialist

29-2099 Health Technologists and Technicians, All Other
All health technologists and technicians not listed separately.

Illustrative examples: Dialysis Technician, Electroencephalogram (EEG) Technologist, Electroneurodiagnostic Technologist, Polysomnograph Tech

29-9000 Other Healthcare Practitioners and Technical Occupations

29-9011 Occupational Health and Safety Specialists
Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers.

Illustrative examples: Environmental Health Sanitarian, Health and Safety Inspector, Industrial Hygienist

29-9012 Occupational Health and Safety Technicians
Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers.

Illustrative examples: Construction Health and Safety Technician, Ergonomics Technician, Occupational Health and Safety Technologist (OHST)

29-9091 Athletic Trainers
Evaluate and advise individuals to assist recovery from or avoid athletic-related injuries or illnesses, or maintain peak physical fitness. May provide first aid or emergency care.

Illustrative example: Certified Athletic Trainer

29-9092 Genetic Counselors
Assess individual or family risk for a variety of inherited conditions, such as genetic disorders and birth defects. Provide information to other healthcare providers or to individuals and families concerned with the risk of inherited conditions. Advise individuals and families to support informed decisionmaking and coping methods for those at risk. May help conduct research related to genetic conditions or genetic counseling.

Illustrative examples: Chromosomal Disorders Counselor, Mitochondrial Disorders Counselor, Prenatal Genetic Counselor

29-9099 Healthcare Practitioners and Technical Workers, All Other
All healthcare practitioners and technical workers not listed separately.

Illustrative examples: Podiatric Technician, Traditional Chinese Herbalist

31-1000 Nursing, Psychiatric, and Home Health Aides

31-1011 Home Health Aides

Provide routine individualized healthcare such as changing bandages and dressing wounds, and applying topical medications to the elderly, convalescents, or persons with disabilities at the patient's home or in a care facility. Monitor or report changes in health status. May also provide personal care such as bathing, dressing, and grooming of patient.

Illustrative examples: Home Health Attendant, Home Hospice Aide

31-1013 Psychiatric Aides

Assist mentally impaired or emotionally disturbed patients, working under direction of nursing and medical staff. May assist with daily living activities, lead patients in educational and recreational activities, or accompany patients to and from examinations and treatments. May restrain violent patients. Includes psychiatric orderlies.

Illustrative examples: Mental Health Orderly, Psychiatric Nursing Aide, Psychiatric Technician Assistant

31-1014 Nursing Assistants

Provide basic patient care under direction of nursing staff. Perform duties such as feed, bathe, dress, groom, or move patients, or change linens. May transfer or transport patients. Includes nursing care attendants, nursing aides, and nursing attendants. Excludes "Home Health Aides" (31-1011), "Orderlies" (31-1015), "Personal Care Aides" (39-9021), and "Psychiatric Aides" (31-1013).

Illustrative examples: Certified Nurse Aide, Certified Nursing Assistant, Nursing Care Attendant

31-1015 Orderlies

Transport patients to areas such as operating rooms or x-ray rooms using wheelchairs, stretchers, or moveable beds. May maintain stocks of supplies or clean and transport equipment. Psychiatric orderlies are included in "Psychiatric Aides" (31-1013). Excludes "Nursing Assistants" (31-1014).

Illustrative examples: Hospital Orderly, Medical Orderly, Surgical Orderly

31-2000 Occupational Therapy and Physical Therapist Assistants and Aides

31-2011 Occupational Therapy Assistants

Assist occupational therapists in providing occupational therapy treatments and procedures. May, in accordance with State laws, assist in development of treatment plans, carry out routine functions, direct activity programs, and document the progress of treatments. Generally requires formal training.

Illustrative examples: Certified Occupational Therapy Assistant, Licensed Occupational Therapist Assistant

31-2012 Occupational Therapy Aides

Under close supervision of an occupational therapist or occupational therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing patient and treatment room.

Illustrative examples: Occupational Rehabilitation Aide, Occupational Therapist Aide

31-2021 Physical Therapist Assistants
Assist physical therapists in providing physical therapy treatments and procedures. May, in accordance with State laws, assist in the development of treatment plans, carry out routine functions, document the progress of treatment, and modify specific treatments in accordance with patient status and within the scope of treatment plans established by a physical therapist. Generally requires formal training.

Illustrative examples: Licensed Physical Therapy Assistant, Physiotherapy Assistant

31-2022 Physical Therapist Aides
Under close supervision of a physical therapist or physical therapy assistant, perform only delegated, selected, or routine tasks in specific situations. These duties include preparing the patient and the treatment area.

Illustrative examples: Clinical Rehabilitation Aide, Physical Therapy Aide

31-9000 Other Healthcare Support Occupations

31-9011 Massage Therapists
Perform therapeutic massages of soft tissues and joints. May assist in the assessment of range of motion and muscle strength, or propose client therapy plans.

Illustrative examples: Deep Tissue Massage Therapist, Licensed Massage Therapist, Swedish Masseuse

31-9091 Dental Assistants
Assist dentist, set up equipment, prepare patient for treatment, and keep records.

Illustrative examples: Certified Dental Assistant, Orthodontic Assistant

31-9092 Medical Assistants
Perform administrative and certain clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician. Excludes "Physician Assistants" (29-1071).

Illustrative examples: Chiropractic Assistant, Morgue Attendant, Orthopedic Cast Specialist

31-9093 Medical Equipment Preparers
Prepare, sterilize, install, or clean laboratory or healthcare equipment. May perform routine laboratory tasks and operate or inspect equipment.

Illustrative examples: Central Sterile Supply Technician, Sterilization Specialist

31-9094 Medical Transcriptionists
Transcribe medical reports recorded by physicians and other healthcare practitioners using various electronic devices, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations into fully understandable form. Edit as necessary and return reports in either printed or electronic form for review and signature, or correction.

Illustrative examples: Medical Stenographer, Medical Transcriber, Pathology Transcriptionist

31-9095 Pharmacy Aides
Record drugs delivered to the pharmacy, store incoming merchandise, and inform the supervisor of stock needs. May operate cash register and accept prescriptions for filling.

Illustrative examples: Pharmacist Assistant, Pharmacy Clerk, Prescription Clerk

31-9096 Veterinary Assistants and Laboratory Animal Caretakers
Feed, water, and examine pets and other nonfarm animals for signs of illness, disease, or injury in laboratories and animal hospitals and clinics. Clean and disinfect cages and work areas, and sterilize laboratory and surgical equipment. May provide routine post-operative care, administer medication orally or topically, or prepare samples for laboratory examination under the supervision of veterinary or laboratory animal technologists or technicians, veterinarians, or scientists. Excludes "Nonfarm Animal Caretakers" (39-2021).

Illustrative examples: Veterinary Attendant, Veterinarian Helper

31-9097 Phlebotomists
Draw blood for tests, transfusions, donations, or research. May explain the procedure to patients and assist in the recovery of patients with adverse reactions.

Illustrative examples: Phlebotomy Technician, Venipuncturist

31-9099 Healthcare Support Workers, All Other
All healthcare support workers not listed separately.

Illustrative example: Ortho/Prosthetic Aide

33-1000 Supervisors of Protective Service Workers

33-1011 First-Line Supervisors of Correctional Officers
Directly supervise and coordinate activities of correctional officers and jailers.

Illustrative examples: Corrections Sergeant, Prison Guard Supervisor

33-1012 First-Line Supervisors of Police and Detectives
Directly supervise and coordinate activities of members of police force.

Illustrative examples: Commanding Officer Homicide Squad, Detective Lieutenant, Police Lieutenant, Traffic Sergeant

33-1021 First-Line Supervisors of Fire Fighting and Prevention Workers
Directly supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control.

Illustrative examples: Fire Lieutenant, Municipal Fire Fighting and Prevention Supervisor, Supervising Fire Marshal

33-1099 First-Line Supervisors of Protective Service Workers, All Other
All protective service supervisors not listed separately above.

Illustrative examples: Animal Cruelty Investigation Supervisor, Security Guard Supervisor, Transportation Security Administration (TSA) Screener Supervisor

33-2000 Fire Fighting and Prevention Workers

33-2011 Firefighters
Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance.

Illustrative examples: Fire Engine Pump Operator, Forest Firefighter, Marine Firefighter, Smoke Jumper

33-2021 Fire Inspectors and Investigators
Inspect buildings to detect fire hazards and enforce local ordinances and State laws, or investigate and gather facts to determine cause of fires and explosions.

Illustrative examples: Arson Investigator, Certified Vehicle Fire Investigator, Fire Hazard Inspector, Fire Prevention Inspector

33-2022 Forest Fire Inspectors and Prevention Specialists
Enforce fire regulations, inspect forest for fire hazards and recommend forest fire prevention or control measures. May report forest fires and weather conditions.

Illustrative examples: Environmental Protection Fire Control Officer, Forest Fire Control Officer, Wildfire Prevention Specialist

33-3000 Law Enforcement Workers

33-3011 Bailiffs

Maintain order in courts of law.

Illustrative examples: Court Bailiff, Court Security Officer, Deputy Bailiff

33-3012 Correctional Officers and Jailers
Guard inmates in penal or rehabilitative institutions in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Includes deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions.

Illustrative examples: Certified Detention Deputy, Juvenile Corrections Officer, Prison Guard

33-3021 Detectives and Criminal Investigators
Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes. Excludes "Private Detectives and Investigators" (33-9021).

Illustrative examples: Deputy United States Marshal, Homicide Detective, Narcotics Investigator

33-3031 Fish and Game Wardens
Patrol assigned area to prevent fish and game law violations. Investigate reports of damage to crops or property by wildlife. Compile biological data.

Illustrative examples: Conservation Enforcement Officer, Wildlife and Game Protector, Wildlife Officer

33-3041 Parking Enforcement Workers
Patrol assigned area, such as public parking lot or city streets to issue tickets to overtime parking violators and illegally parked vehicles.

Illustrative examples: Meter Maid, Parking Enforcement Officer

33-3051 Police and Sheriff's Patrol Officers
Maintain order and protect life and property by enforcing local, tribal, State, or Federal laws and ordinances. Perform a combination of the following duties: patrol a specific area; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts.

Illustrative examples: Border Patrol Officer, Motorcycle Police, Park Police, State Trooper

33-3052 Transit and Railroad Police
Protect and police railroad and transit property, employees, or passengers.

Illustrative examples: Railroad Detective, Track Patrol, Transit Authority Police

33-9000 Other Protective Service Workers

33-9011 Animal Control Workers
Handle animals for the purpose of investigations of mistreatment, or control of abandoned, dangerous, or unattended animals.

Illustrative examples: Animal Control Officer, Animal Warden, Dog Catcher, Humane Officer

33-9021 Private Detectives and Investigators

Gather, analyze, compile and report information regarding individuals or organizations to clients, or detect occurrences of unlawful acts or infractions of rules in private establishment.

Illustrative examples: Private Eye, Skip Tracer, Store Detective

33-9031 Gaming Surveillance Officers and Gaming Investigators
Act as oversight and security agent for management and customers. Observe casino or casino hotel operation for irregular activities such as cheating or theft by either employees or patrons. May use one-way mirrors above the casino floor, cashier's cage, and from desk. Use of audio/video equipment is also common to observe operation of the business. Usually required to provide verbal and written reports of all violations and suspicious behavior to supervisor.

Illustrative examples: Casino Investigator, Casino Surveillance Officer, Gambling Monitor

33-9032 Security Guards
Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules. May operate x-ray and metal detector equipment. Excludes “Transportation Security Screeners” (33-9093).

Illustrative examples: Bank Guard, Bodyguard, Bouncer

33-9091 Crossing Guards
Guide or control vehicular or pedestrian traffic at such places as streets, schools, railroad crossings, or construction sites.

Illustrative examples: Construction Site Crossing Guard, School Traffic Guard

33-9092 Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers
Monitor recreational areas, such as pools, beaches, or ski slopes to provide assistance and protection to participants.

Illustrative examples: Beach Lifeguard, Outdoor Emergency Care Technician

33-9093 Transportation Security Screeners
Conduct screening of passengers, baggage, or cargo to ensure compliance with Transportation Security Administration (TSA) regulations. May operate basic security equipment such as x-ray machines and hand wands at screening checkpoints.

Illustrative examples: Airport Baggage Screener, Airport Security Screener, Transportation Security Officer, Transportation Security Administration (TSA) Screener

33-9099 Protective Service Workers, All Other
All protective service workers not listed separately.

Illustrative examples, Playground Monitor, Warrant Server

35-1000 Supervisors of Food Preparation and Serving Workers

35-1011 Chefs and Head Cooks

Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts.

Illustrative examples: Executive Chef, Pastry Chef, Sous Chef

35-1012 First-Line Supervisors of Food Preparation and Serving Workers
Directly supervise and coordinate activities of workers engaged in preparing and serving food.

Illustrative examples: Banquet Supervisor, Bar Manager, Kitchen Supervisor

35-2000 Cooks and Food Preparation Workers

35-2011 Cooks, Fast Food
Prepare and cook food in a fast food restaurant with a limited menu. Duties of these cooks are limited to preparation of a few basic items and normally involve operating large-volume single-purpose cooking equipment.

Illustrative example: Fast Food Fry Cook

35-2012 Cooks, Institution and Cafeteria
Prepare and cook large quantities of food for institutions, such as schools, hospitals, or cafeterias.

Illustrative examples: Camp Cook, Galley Cook, Mess Cook, School Cook

35-2013 Cooks, Private Household
Prepare meals in private homes. Includes personal chefs.

Illustrative examples: Certified Personal Chef, Private Chef

35-2014 Cooks, Restaurant
Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu.

Illustrative examples: Banquet Cook, Line Cook, Saucier

35-2015 Cooks, Short Order
Prepare and cook to order a variety of foods that require only a short preparation time. May take orders from customers and serve patrons at counters or tables. Excludes "Fast Food Cooks" (35-2011).

Illustrative example: Griddle Cook

35-2019 Cooks, All Other
All cooks not listed separately.

Illustrative examples: Falafal Cart Cook, Fraternity House Cook

35-2021 Food Preparation Workers

Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea.

Illustrative examples: Fruit and Vegetable Parer, Salad Maker, Sandwich Maker

35-3000 Food and Beverage Serving Workers

35-3011 Bartenders
Mix and serve drinks to patrons, directly or through waitstaff.

Illustrative examples: Barkeep, Mixologist, Taproom Attendant

35-3021 Combined Food Preparation and Serving Workers, Including Fast Food
Perform duties which combine preparing and serving food and nonalcoholic beverages.

Illustrative example: Mess Attendant

35-3022 Counter Attendants, Cafeteria, Food Concession, and Coffee Shop
Serve food to diners at counter or from a steam table. Counter attendants who also wait tables are included in "Waiters and Waitresses" (35-3031).

Illustrative examples: Cafeteria Server, Ice Cream Server, Snack Bar Attendant

35-3031 Waiters and Waitresses
Take orders and serve food and beverages to patrons at tables in dining establishment. Excludes "Counter Attendants, Cafeteria, Food Concession, and Coffee Shop" (35-3022).

Illustrative examples: Cocktail Server, Dining Car Server, Wine Steward

35-3041 Food Servers, Nonrestaurant
Serve food to individuals outside of a restaurant environment, such as in hotel rooms, hospital rooms, residential care facilities, or cars. Excludes "Door-to-Door Sales Workers, News and Street Vendors, and Related Workers" (41-9091) and "Counter Attendants, Cafeteria, Food Concession, and Coffee Shop" (35-3022).

Illustrative examples: Boat Hop, Hospital Food Service Worker, Room Service Food Server

35-9000 Other Food Preparation and Serving Related Workers

35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers
Facilitate food service. Clean tables, remove dirty dishes, replace soiled table linens; set tables; replenish supply of clean linens, silverware, glassware, and dishes; supply service bar with food; and serve items such as water, condiments, and coffee to patrons.

Illustrative examples: Bar Back, Busser, Lunchroom Attendant

35-9021 Dishwashers
Clean dishes, kitchen, food preparation equipment, or utensils.

Illustrative examples: Dish Room Worker, Silverware Cleaner

35-9031 Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
Welcome patrons, seat them at tables or in lounge, and help ensure quality of facilities and service.

Illustrative examples: Dining Room Host, Maitre D'

35-9099 Food Preparation and Serving Related Workers, All Other
All food preparation and serving related workers not listed separately.

Illustrative example: Kitchen Steward

37-1000 Supervisors of Building and Grounds Cleaning and Maintenance Workers

37-1011 First-Line Supervisors of Housekeeping and Janitorial Workers
Directly supervise and coordinate work activities of cleaning personnel in hotels, hospitals, offices, and other establishments.

Illustrative examples: Building Cleaning Supervisor, Cleaning Staff Supervisor, Custodial Supervisor

37-1012 First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers
Directly supervise and coordinate activities of workers engaged in landscaping or groundskeeping activities. Work may involve reviewing contracts to ascertain service, machine, and workforce requirements; answering inquiries from potential customers regarding methods, material, and price ranges; and preparing estimates according to labor, material, and machine costs.

Illustrative examples: Grounds Maintenance Supervisor, Head Greenskeeper, Horticultural Services Supervisor

37-2000 Building Cleaning and Pest Control Workers

37-2011 Janitors and Cleaners, Except Maids and Housekeeping Cleaners
Keep buildings in clean and orderly condition. Perform heavy cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass, and removing rubbish. Duties may include tending furnace and boiler, performing routine maintenance activities, notifying management of need for repairs, and cleaning snow or debris from sidewalk.

Illustrative examples: Industrial Plant Custodian, School Custodian, Window Washer

37-2012 Maids and Housekeeping Cleaners
Perform any combination of light cleaning duties to maintain private households or commercial establishments, such as hotels and hospitals, in a clean and orderly manner. Duties may include making beds, replenishing linens, cleaning rooms and halls, and vacuuming.

Illustrative examples: Chambermaid, House Cleaner, Housekeeping Staff

37-2019 Building Cleaning Workers, All Other
All building cleaning workers not listed separately.

Illustrative examples: Building Pressure Washer, Chimney Sweeper

37-2021 Pest Control Workers
Apply or release chemical solutions or toxic gases and set traps to kill or remove pests and vermin that infest buildings and surrounding areas.

Illustrative examples: Exterminator, Fumigator, Rodent Exterminator

37-3000 Grounds Maintenance Workers

37-3011 Landscaping and Groundskeeping Workers
Landscape or maintain grounds of property using hand or power tools or equipment. Workers typically perform a variety of tasks, which may include any combination of the following: sod laying, mowing, trimming, planting, watering, fertilizing, digging, raking, sprinkler installation, and installation of mortarless segmental concrete masonry wall units. Excludes "Farmworkers and Laborers, Crop, Nursery, and Greenhouse" (45-2092).

Illustrative examples: Greenskeeper, Hedge Trimmer, Lawn Caretaker, Shrub Planter

37-3012 Pesticide Handlers, Sprayers, and Applicators, Vegetation
Mix or apply pesticides, herbicides, fungicides, or insecticides through sprays, dusts, vapors, soil incorporation, or chemical application on trees, shrubs, lawns, or botanical crops. Usually requires specific training and State or Federal certification. Excludes "Commercial Pilots" (53-2012) who dust or spray crops from aircraft.

Illustrative examples: Fruit Sprayer, Weed Sprayer

37-3013 Tree Trimmers and Pruners
Using sophisticated climbing and rigging techniques, cut away dead or excess branches from trees or shrubs to maintain right-of-way for roads, sidewalks, or utilities, or to improve appearance, health, and value of tree. Prune or treat trees or shrubs using handsaws, hand pruners, clippers, and power pruners. Works off the ground in the tree canopy and may use truck-mounted lifts. Excludes workers who primarily perform duties of "Pesticide Handlers, Sprayers, and Applicators, Vegetation" (37-3012) and "Landscaping and Groundskeeping Workers" (37-3011).

Illustrative examples: Tree Specialist, Tree Surgeon

37-3019 Grounds Maintenance Workers, All Other
All grounds maintenance workers not listed separately.

Illustrative example: Trailhead Maintenance Worker, Tree Trimmer Helper

39-1000 Supervisors of Personal Care and Service Workers

39-1011 Gaming Supervisors
Supervise and coordinate activities of workers in assigned gaming areas. Circulate among tables and observe operations. Ensure that stations and games are covered for each shift. May explain and interpret

operating rules of house to patrons. May plan and organize activities and services for guests in hotels/casinos. May address service complaints. Excludes "Slot Supervisors" (39-1012).

Illustrative examples: Cardroom Supervisor, Pit Boss, Table Games Supervisor

39-1012 Slot Supervisors
Supervise and coordinate activities of slot department workers to provide service to patrons. Handle and settle complaints of players. Verify and pay off jackpots. Reset slot machines after payoffs. Make repairs or adjustments to slot machines or recommend removal of slot machines for repair. Report hazards and enforce safety rules.

Illustrative example: Casino Slot Supervisor, Electronic Gaming Device Supervisor, Slot Key Person

39-1021 First-Line Supervisors of Personal Service Workers
Directly supervise and coordinate activities of personal service workers, such as flight attendants, hairdressers, or caddies.

Illustrative examples: Animal Trainer Supervisor, Caddy Master, Recreation Attendant Supervisor

39-2000 Animal Care and Service Workers

39-2011 Animal Trainers
Train animals for riding, harness, security, performance, or obedience, or assisting persons with disabilities. Accustom animals to human voice and contact; and condition animals to respond to commands. Train animals according to prescribed standards for show or competition. May train animals to carry pack loads or work as part of pack team.

Illustrative examples: Guide Dog Trainer, Horse Breaker, Marine Mammal Trainer

39-2021 Nonfarm Animal Caretakers
Feed, water, groom, bathe, exercise, or otherwise care for pets and other nonfarm animals, such as dogs, cats, ornamental fish or birds, zoo animals, and mice. Work in settings such as kennels, animal shelters, zoos, circuses, and aquariums. May keep records of feedings, treatments, and animals received or discharged. May clean, disinfect, and repair cages, pens, or fish tanks. Excludes "Veterinary Assistants and Laboratory Animal Caretakers" (31-9096).

Illustrative examples: Animal Shelter Worker, Dog Groomer, Kennel Worker, Zookeeper

39-3000 Entertainment Attendants and Related Workers

39-3011 Gaming Dealers
Operate table games. Stand or sit behind table and operate games of chance by dispensing the appropriate number of cards or blocks to players, or operating other gaming equipment. Distribute winnings or collect players' money or chips. May compare the house's hand against players' hands.

Illustrative examples: Blackjack Dealer, Craps Dealer, Poker Dealer, Roulette Dealer

39-3012 Gaming and Sports Book Writers and Runners
Post information enabling patrons to wager on various races and sporting events. Assist in the operation of games such as keno and bingo. May operate random number generating equipment and announce the numbers for patrons. Receive, verify, and record patrons' wagers. Scan and process winning tickets presented by patrons and payout winnings for those wagers.

Illustrative examples: Betting Clerk, Keno Runner, Race Book Writer

39-3019 Gaming Service Workers, All Other
All gaming service workers not listed separately.

Illustrative examples: Pit Clerk, Proposition Player, Shill

39-3021 Motion Picture Projectionists
Set up and operate motion picture projection and related sound reproduction equipment.

Illustrative examples: Film Projector Operator, Movie Projectionist

39-3031 Ushers, Lobby Attendants, and Ticket Takers
Assist patrons at entertainment events by performing duties, such as collecting admission tickets and passes from patrons, assisting in finding seats, searching for lost articles, and locating such facilities as rest rooms and telephones.

Illustrative examples: Theater Usher, Ticket Collector

39-3091 Amusement and Recreation Attendants
Perform variety of attending duties at amusement or recreation facility. May schedule use of recreation facilities, maintain and provide equipment to participants of sporting events or recreational pursuits, or operate amusement concessions and rides.

Illustrative examples: Arcade Attendant, Golf Caddy, Ski Lift Operator

39-3092 Costume Attendants
Select, fit, and take care of costumes for cast members, and aid entertainers. May assist with multiple costume changes during performances.

Illustrative examples: Theatrical Wardrobe Dresser, Wardrobe Attendant

39-3093 Locker Room, Coatroom, and Dressing Room Attendants
Provide personal items to patrons or customers in locker rooms, dressing rooms, or coatrooms.

Illustrative examples: Bathhouse Attendant, Coat Checker, Washroom Attendant

39-3099 Entertainment Attendants and Related Workers, All Other
All entertainment attendants and related workers not listed separately.

39-4000 Funeral Service Workers

39-4011 Embalmers
Prepare bodies for interment in conformity with legal requirements.

Illustrative examples: Licensed Embalmer, Restorative Art Embalmer

39-4021 Funeral Attendants
Perform variety of tasks during funeral, such as placing casket in parlor or chapel prior to service; arranging floral offerings or lights around casket; directing or escorting mourners; closing casket; and issuing and storing funeral equipment.

Illustrative examples: Funeral Home Assistant, Mortician Helper, Pallbearer

39-4031 Morticians, Undertakers, and Funeral Directors
Perform various tasks to arrange and direct funeral services, such as coordinating transportation of body to mortuary, interviewing family or other authorized person to arrange details, selecting pallbearers, aiding with the selection of officials for religious rites, and providing transportation for mourners. Excludes "Funeral Service Managers" (11-9061).

Illustrative examples: Certified Mortician, Funeral Arranger

39-5000 Personal Appearance Workers

39-5011 Barbers
Provide barbering services, such as cutting, trimming, shampooing, and styling hair, trimming beards, or giving shaves.

Illustrative examples: Barber Apprentice, Master Barber

39-5012 Hairdressers, Hairstylists, and Cosmetologists
Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May apply makeup, dress wigs, perform hair removal, and provide nail and skin care services. Excludes "Makeup Artists, Theatrical and Performance" (39-5091), "Manicurists and Pedicurists" (39-5092), and "Skincare Specialists" (39-5094).

Illustrative examples: Beautician, Wig Stylist

39-5091 Makeup Artists, Theatrical and Performance
Apply makeup to performers to reflect period, setting, and situation of their role.

Illustrative example: Special Effects Makeup Artist

39-5092 Manicurists and Pedicurists
Clean and shape customers' fingernails and toenails. May polish or decorate nails.

Illustrative examples: Fingernail Sculptor, Nail Technician

39-5093 Shampooers
Shampoo and rinse customers' hair.

Illustrative examples: Scalp Treatment Specialist, Shampoo Assistant

39-5094 Skincare Specialists
Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists.

Illustrative examples: Facialist, Medical Esthetician

39-6000 Baggage Porters, Bellhops, and Concierges

39-6011 Baggage Porters and Bellhops
Handle baggage for travelers at transportation terminals or for guests at hotels or similar establishments.

Illustrative examples: Bellstaff, Hotel Baggage Handler, Skycap

39-6012 Concierges
Assist patrons at hotel, apartment, or office building with personal services. May take messages, arrange or give advice on transportation, business services or entertainment, or monitor guest requests for housekeeping and maintenance.

Illustrative examples: Activities Concierge, Hotel Concierge, Hotel Guest Service Agent

39-7000 Tour and Travel Guides

39-7011 Tour Guides and Escorts
Escort individuals or groups on sightseeing tours or through places of interest, such as industrial establishments, public buildings, and art galleries.

Illustrative examples: Historical Site Guide, Museum Guide, Sightseeing Guide

39-7012 Travel Guides
Plan, organize, and conduct long distance travel, tours, and expeditions for individuals and groups.

Illustrative examples: Cruise Director, River Expedition Guide

39-9000 Other Personal Care and Service Workers

39-9011 Childcare Workers
Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play. Excludes "Preschool Teachers, Except Special Education" (25-2011) and "Teacher Assistants" (25-9041).

Illustrative examples: Au Pair, Daycare Provider, Nanny

39-9021 Personal Care Aides
Assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. Duties performed at a place of residence may include keeping house (making beds, doing laundry, washing dishes) and preparing meals. May provide assistance at non-residential care facilities. May advise families, the elderly, convalescents, and persons with disabilities regarding such things as nutrition, cleanliness, and household activities.

Illustrative examples: Blind Escort, Elderly Companion, Geriatric Personal Care Aide

39-9031 Fitness Trainers and Aerobics Instructors
Instruct or coach groups or individuals in exercise activities. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills. Excludes teachers classified in 25-0000 Education, Training, and Library Occupations. Excludes “Coaches and Scouts” (27-2022) and "Athletic Trainers" (29-9091).

Illustrative examples: Personal Trainer, Yoga Instructor

39-9032 Recreation Workers
Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities, such as arts and crafts, sports, games, music, dramatics, social recreation, camping, and hobbies, taking into account the needs and interests of individual members.

Illustrative examples: Activities Aide, Camp Counselor, Playground Worker

39-9041 Residential Advisors
Coordinate activities in residential facilities in secondary and college dormitories, group homes, or similar establishments. Order supplies and determine need for maintenance, repairs, and furnishings. May maintain household records and assign rooms. May assist residents with problem solving or refer them to counseling resources.

Illustrative examples: Dormitory Counselor, House Parent, Residence Life Coordinator

39-9099 Personal Care and Service Workers, All Other
All personal care and service workers not listed separately.

Illustrative examples: Butler, House Sitter, Shoe Shiner, Valet

41-1000 Supervisors of Sales Workers

41-1011 First-Line Supervisors of Retail Sales Workers
Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties.

Illustrative examples: Cashier Supervisor, Delicatessen Department Manager

41-1012 First-Line Supervisors of Non-Retail Sales Workers
Directly supervise and coordinate activities of sales workers other than retail sales workers. May perform duties such as budgeting, accounting, and personnel work, in addition to supervisory duties.

Illustrative examples: Insurance Sales Supervisor, Real Estate Sales Supervisor, Telemarketer Supervisor

41-2000 Retail Sales Workers

41-2011 Cashiers

Receive and disburse money in establishments other than financial institutions. May use electronic scanners, cash registers, or related equipment. May process credit or debit card transactions and validate checks. Excludes “Gaming Cage Persons and Booth Cashiers” (41-2012).

Illustrative examples: Cash Register Operator, Grocery Checker, Toll Collector

41-2012 Gaming Change Persons and Booth Cashiers

Exchange coins, tokens, and chips for patrons' money. May issue payoffs and obtain customer's signature on receipt. May operate a booth in the slot machine area and furnish change persons with money bank at the start of the shift, or count and audit money in drawers. Excludes “Cashiers” (41-2011).

Illustrative example: Mutuel Teller, Slot Attendant

41-2021 Counter and Rental Clerks

Receive orders, generally in person, for repairs, rentals, and services. May describe available options, compute costs, and accept payment. Excludes “Counter Attendants, Cafeteria, Food Concession, and Coffee Shop” (35-3022), “Hotel, Motel, and Resort Desk Clerks” (43-4081), “Order Clerks” (43-4151), and “Reservation and Transportation Ticket Agents and Travel Clerks” (43-4181).

Illustrative examples: Car Rental Agent, Dry Cleaning Counter Clerk

41-2022 Parts Salespersons

Sell spare and replacement parts and equipment in repair shop or parts store.

Illustrative examples: Auto Parts Salesperson, Electronic Parts Salesperson

41-2031 Retail Salespersons

Sell merchandise, such as furniture, motor vehicles, appliances, or apparel to consumers. Excludes "Cashiers" (41-2011).

Illustrative examples: Used Car Salesperson, Women’s Apparel Salesperson

41-3000 Sales Representatives, Services

41-3011 Advertising Sales Agents

Sell or solicit advertising space, time, or media in publications, signage, TV, radio, or the Internet. Includes individuals who obtain leases for outdoor advertising sites or persuade retailers to use sales promotion display items.

Illustrative examples: Advertising Account Executive, Display Advertising Sales Representative, Yellow Pages Space Salesperson

41-3021 Insurance Sales Agents
Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company.

Illustrative examples: Life Insurance Salesperson, Pension Agent

41-3031 Securities, Commodities, and Financial Services Sales Agents
Buy and sell securities or commodities in investment and trading firms, or provide financial services to businesses and individuals. May advise customers about stocks, bonds, mutual funds, commodities, and market conditions.

Illustrative examples: Investment Banker, Securities Trader, Stock Broker

41-3041 Travel Agents
Plan and sell transportation and accommodations for travel agency customers. Determine destination, modes of transportation, travel dates, costs, and accommodations required. May also describe, plan, and arrange itineraries and sell tour packages. May assist in resolving clients' travel problems.

Illustrative examples: Corporate Travel Expert, Travel Service Consultant

41-3099 Sales Representatives, Services, All Other
All services sales representatives not listed separately.

Illustrative examples: Business Services Sales Representative, Membership Solicitor, Pest Control Service Sales Agent

41-4000 Sales Representatives, Wholesale and Manufacturing

41-4011 Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products
Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of post-secondary education. Excludes "Sales Engineers" (41-9031).

Illustrative examples: Pharmaceutical Sales Representative, Surgical Instruments Sales Representative, Wholesale Ultrasonic Equipment Salesperson

41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products
Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold.

Illustrative examples: Hotel Supplies Salesperson, Pulpwood Dealer, Wholesale Diamond Broker

41-9000 Other Sales and Related Workers

41-9011 Demonstrators and Product Promoters
Demonstrate merchandise and answer questions for the purpose of creating public interest in buying the product. May sell demonstrated merchandise.

Illustrative examples: Home Demonstrator, In-Store Demonstrator

41-9012 Models
Model garments or other apparel and accessories for prospective buyers at fashion shows, private showings, or retail establishments. May pose for photos to be used in magazines or advertisements. May pose as subject for paintings, sculptures, and other types of artistic expression.

Illustrative examples: Fashion Model, Hand Model, Photographer's Model

41-9021 Real Estate Brokers
Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans.

Illustrative example: Licensed Real Estate Broker

41-9022 Real Estate Sales Agents
Rent, buy, or sell property for clients. Perform duties, such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer.

Illustrative examples: Apartment Rental Agent, Right of Way Agent

41-9031 Sales Engineers
Sell business goods or services, the selling of which requires a technical background equivalent to a baccalaureate degree in engineering. Excludes "Engineers" (17-2011 through 17-2199) whose primary function is not marketing or sales.

Illustrative examples: Aerospace Products Sales Engineer, Missile Navigation Systems Sales Engineer, Nuclear Equipment Sales Engineer

41-9041 Telemarketers
Solicit donations or orders for goods or services over the telephone.

Illustrative examples: Telemarketing Sales Representative, Telephone Solicitor

41-9091 Door-to-Door Sales Workers, News and Street Vendors, and Related Workers
Sell goods or services door-to-door or on the street.

Illustrative examples: Newspaper Carrier, Peddler, Souvenir Street Vendor

41-9099 Sales and Related Workers, All Other
All sales and related workers not listed separately.

Illustrative examples: Auctioneer, Blood Donor Recruiter, Personal Shopper, Store Gift Wrap Associate

43-1000 Supervisors of Office and Administrative Support Workers

43-1011 First-Line Supervisors of Office and Administrative Support Workers
Directly supervise and coordinate the activities of clerical and administrative support workers.

Illustrative examples: Clerical Supervisor, Payroll Supervisor, Teller Supervisor

43-2000 Communications Equipment Operators

43-2011 Switchboard Operators, Including Answering Service
Operate telephone business systems equipment or switchboards to relay incoming, outgoing, and interoffice calls. May supply information to callers and record messages.

Illustrative examples: Private Branch Exchange Operator, Telephone Answering Service Operator, Telephone Switchboard Operator

43-2021 Telephone Operators
Provide information by accessing alphabetical, geographical, or other directories. Assist customers with special billing requests, such as charges to a third party and credits or refunds for incorrectly dialed numbers or bad connections. May handle emergency calls and assist children or people with physical disabilities to make telephone calls.

Illustrative examples: Directory Assistance Operator, Long Distance Operator, Information Operator

43-2099 Communications Equipment Operators, All Other
All communications equipment operators not listed separately.

Illustrative example: Fax Machine Operator

43-3000 Financial Clerks

43-3011 Bill and Account Collectors
Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account; preparing statements to credit department if customer fails to respond; initiating repossession proceedings or service disconnection; and keeping records of collection and status of accounts.

Illustrative examples: Collection Agent, Debt Collector, Repossessor

43-3021 Billing and Posting Clerks
Compile, compute, and record billing, accounting, statistical, and other numerical data for billing purposes. Prepare billing invoices for services rendered or for delivery or shipment of goods.

Illustrative examples: Invoice Control Clerk, Patient Account Representative, Statement Processor

43-3031 Bookkeeping, Accounting, and Auditing Clerks
Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. May also check the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers. Excludes “Payroll and Timekeeping Clerks” (43-3051).

Illustrative examples: Accounts Receivable Clerk, Bookkeeper, Mortgage Accounting Clerk

43-3041 Gaming Cage Workers
In a gaming establishment, conduct financial transactions for patrons. May reconcile daily summaries of transactions to balance books. May accept patron's credit application and verify credit references to provide check-cashing authorization or to establish house credit accounts. May sell gambling chips, tokens, or tickets to patrons, or to other workers for resale to patrons. May convert gaming chips, tokens, or tickets to currency upon patron's request. May use a cash register or computer to record transaction.

Illustrative examples: Cage Cashier, Casino Cashier

43-3051 Payroll and Timekeeping Clerks
Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks. Excludes "Bookkeeping, Accounting, and Auditing Clerks" (43-3031).

Illustrative example: Time and Attendance Clerk, Timekeeper

43-3061 Procurement Clerks
Compile information and records to draw up purchase orders for procurement of materials and services.

Illustrative examples: Procurement Assistant, Purchasing Clerk

43-3071 Tellers
Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions.

Illustrative examples: Foreign Exchange Clerk, Money Order Clerk, Securities Teller

43-3099 Financial Clerks, All Other
All financial clerks not listed separately.

Illustrative examples: Bank Vault Attendant, Financial Reserve Clerk, Safety Deposit Clerk

43-4000 Information and Record Clerks

43-4011 Brokerage Clerks
Perform duties related to the purchase, sale or holding of securities. Duties include writing orders for stock purchases or sales, computing transfer taxes, verifying stock transactions, accepting and delivering securities, tracking stock price fluctuations, computing equity, distributing dividends, and keeping records of daily transactions and holdings.

Illustrative examples: Commodities Clerk, Dividend Clerk

43-4021 Correspondence Clerks
Compose letters or electronic correspondence in reply to requests for merchandise, damage claims, credit and other information, delinquent accounts, incorrect billings, or unsatisfactory services. Duties may include gathering data to formulate reply and preparing correspondence.

Illustrative examples: Fan Mail Editor, Medicare Correspondence Representative

43-4031 Court, Municipal, and License Clerks
Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus. May prepare docket of cases to be called; secure information for judges and court; prepare draft agendas or bylaws for town or city council; answer official correspondence; keep fiscal records and accounts; issue licenses or permits; and record data, administer tests, or collect fees. Clerks of Court are classified in "Managers, All Other" (11-9199).

Illustrative examples: Circuit Court Clerk, Motor Vehicle License Clerk, Warrant Clerk

43-4041 Credit Authorizers, Checkers, and Clerks
Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data; determine credit worthiness; process applications; and notify customers of acceptance or rejection of credit.

Illustrative examples: Charge Authorizer, Commercial Credit Reviewer, Credit Rating Checker

43-4051 Customer Service Representatives
Interact with customers to provide information in response to inquiries about products and services and to handle and resolve complaints. Excludes individuals whose duties are primarily installation, sales, or repair.

Illustrative examples: Customer Complaint Clerk, Passenger Relations Representative, Warranty Clerk

43-4061 Eligibility Interviewers, Government Programs
Determine eligibility of persons applying to receive assistance from government programs and agency resources, such as welfare, unemployment benefits, social security, and public housing.

Illustrative examples: Medical Interviewer, Public Housing Interviewer, Unemployment Benefits Claims Taker

43-4071 File Clerks
File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested.

Illustrative examples: Document Clerk, Records Clerk

43-4081 Hotel, Motel, and Resort Desk Clerks
Accommodate hotel, motel, and resort patrons by registering and assigning rooms to guests, issuing room keys or cards, transmitting and receiving messages, keeping records of occupied rooms and guests' accounts, making and confirming reservations, and presenting statements to and collecting payments from departing guests.

Illustrative examples: Hotel Front Desk Clerk, Hotel Registration Clerk

43-4111 Interviewers, Except Eligibility and Loan
Interview persons by telephone, mail, in person, or by other means for the purpose of completing forms, applications, or questionnaires. Ask specific questions, record answers, and assist persons with completing form. May sort, classify, and file forms.

Illustrative examples: Census Taker, Market Research Interviewer, Outpatient Interviewing Clerk

43-4121 Library Assistants, Clerical

Compile records, sort, shelve, issue, and receive library materials such as books, electronic media, pictures, cards, slides and microfilm. Locate library materials for loan and replace material in shelving area, stacks, or files according to identification number and title. Register patrons to permit them to borrow books, periodicals, and other library materials. Excludes “Library Technicians” (25-4031).

Illustrative examples: Braille and Talking Books Clerk, Circulation Clerk, Microfilm Clerk

43-4131 Loan Interviewers and Clerks

Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan.

Illustrative examples: Loan Processor, Mortgage Loan Closer

43-4141 New Accounts Clerks

Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications.

Illustrative examples: Banking Services Clerk, New Accounts Banking Representative

43-4151 Order Clerks

Receive and process incoming orders for materials, merchandise, classified ads, or services such as repairs, installations, or rental of facilities. Generally receives orders via mail, phone, fax, or other electronic means. Duties include informing customers of receipt, prices, shipping dates, and delays; preparing contracts; and handling complaints. Excludes "Dispatchers, Except Police, Fire, and Ambulance" (43-5032) who both dispatch and take orders for services.

Illustrative examples: Catalogue Clerk, Classified Ad Clerk, Subscription Clerk

43-4161 Human Resources Assistants, Except Payroll and Timekeeping

Compile and keep personnel records. Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination. May prepare reports for employment records, file employment records, or search employee files and furnish information to authorized persons.

Illustrative examples: HR Clerk, Personnel Clerk

43-4171 Receptionists and Information Clerks

Answer inquiries and provide information to the general public, customers, visitors, and other interested parties regarding activities conducted at establishment and location of departments, offices, and employees within the organization. Excludes "Switchboard Operators, Including Answering Service" (43-2011).

Illustrative examples: Appointment Clerk, Front Desk Receptionist, Land Leasing Information Clerk

43-4181 Reservation and Transportation Ticket Agents and Travel Clerks
Make and confirm reservations for transportation or lodging, or sell transportation tickets. May check baggage and direct passengers to designated concourse, pier, or track; deliver tickets, contact individuals and groups to inform them of package tours; or provide tourists with travel or transportation information. Excludes "Travel Agents" (41-3041), "Hotel, Motel, and Resort Desk Clerks" (43-4081), and "Cashiers" (41-2011) who sell tickets for local transportation.

Illustrative examples: Airline Ticket Agent, Gate Agent, Hotel Reservationist, Train Reservation Clerk

43-4199 Information and Record Clerks, All Other
All information and record clerks not listed separately.

Illustrative examples: Election Clerk, Probate Clerk, Student Admissions Clerk

43-5000 Material Recording, Scheduling, Dispatching, and Distributing Workers

43-5011 Cargo and Freight Agents
Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs.

Illustrative examples: Cargo Router, Freight Shipping Agent, Ramp Service Agent

43-5021 Couriers and Messengers
Pick up and deliver messages, documents, packages, and other items between offices or departments within an establishment or directly to other business concerns, traveling by foot, bicycle, motorcycle, automobile, or public conveyance. Excludes "Light Truck or Delivery Services Drivers" (53-3033).

Illustrative examples: Bicycle Messenger, Laboratory Courier, Office Runner

43-5031 Police, Fire, and Ambulance Dispatchers
Operate radio, telephone, or computer equipment at emergency response centers. Receive reports from the public of crimes, disturbances, fires, and medical or police emergencies. Relay information to law enforcement and emergency response personnel. May maintain contact with caller until responders arrive.

Illustrative examples: Emergency Operator, 911 Operator, Police Radio Dispatcher

43-5032 Dispatchers, Except Police, Fire, and Ambulance
Schedule and dispatch workers, work crews, equipment, or service vehicles for conveyance of materials, freight, or passengers, or for normal installation, service, or emergency repairs rendered outside the place of business. Duties may include using radio, telephone, or computer to transmit assignments and compiling statistics and reports on work progress.

Illustrative examples: Taxicab Dispatcher, Tow Truck Dispatcher, Train Dispatcher

43-5041 Meter Readers, Utilities
Read meter and record consumption of electricity, gas, water, or steam.

Illustrative examples: Electric Meter Reader, Gas Meter Reader, Water Meter Reader

43-5051 Postal Service Clerks
Perform any combination of tasks in a post office, such as receive letters and parcels; sell postage and revenue stamps, postal cards, and stamped envelopes; fill out and sell money orders; place mail in pigeon holes of mail rack or in bags; and examine mail for correct postage.

Illustrative examples: Bulk Mail Carrier, Parcel Post Clerk, Postal Service Window Clerk

43-5052 Postal Service Mail Carriers
Sort mail for delivery. Deliver mail on established route by vehicle or on foot.

Illustrative examples: Letter Carrier, Mail Deliverer, Rural Route Carrier

43-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators
Prepare incoming and outgoing mail for distribution. Examine, sort, and route mail. Load, operate, and occasionally adjust and repair mail processing, sorting, and canceling machinery. Keep records of shipments, pouches, and sacks; and other duties related to mail handling within the postal service. Excludes "Postal Service Clerks" (43-5051) and "Postal Service Mail Carriers" (43-5052).

Illustrative examples: Flat Sorting Machine Clerk, Mail Forwarding System Markup Clerk

43-5061 Production, Planning, and Expediting Clerks
Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems. Excludes "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).

Illustrative examples: Expeditor, Material Control Clerk, Production Scheduler

43-5071 Shipping, Receiving, and Traffic Clerks
Verify and maintain records on incoming and outgoing shipments. Prepare items for shipment. Duties include assembling, addressing, stamping, and shipping merchandise or material; receiving, unpacking, verifying and recording incoming merchandise or material; and arranging for the transportation of products. Excludes "Stock Clerks and Order Fillers" (43-5081) and "Weighers, Measurers, Checkers, and Samplers, Recordkeeping" (43-5111).

Illustrative examples: Incoming Freight Clerk, Route Delivery Clerk, Store Receiving Clerk

43-5081 Stock Clerks and Order Fillers
Receive, store, and issue sales floor merchandise, materials, equipment, and other items from stockroom, warehouse, or storage yard to fill shelves, racks, tables, or customers' orders. May mark prices on merchandise and set up sales displays. Excludes "Laborers and Freight, Stock, and Material Movers, Hand" (53-7062), and "Shipping, Receiving, and Traffic Clerks" (43-5071).

Illustrative examples: Inventory Control Clerk, Tool Crib Attendant, Warehouse Clerk

43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping
Weigh, measure, and check materials, supplies, and equipment for the purpose of keeping relevant records. Duties are primarily clerical by nature. Includes workers who collect and keep record of samples of products or materials. Excludes "Inspectors, Testers, Sorters, Samplers, and Weighers" (51-9061).

Illustrative examples: Cheese Weigher, Scale Attendant, Weighing Station Operator

43-6000 Secretaries and Administrative Assistants

43-6011 Executive Secretaries and Executive Administrative Assistants
Provide high-level administrative support by conducting research, preparing statistical reports, handling information requests, and performing clerical functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff. Excludes "Secretaries" (43-6012 through 43-6014).

Illustrative example: Executive Assistant

43-6012 Legal Secretaries
Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research.

Illustrative examples: Law Secretary, Legal Administrative Assistant

43-6013 Medical Secretaries
Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence.

Illustrative examples: Dental Secretary, Psychiatric Secretary

43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers. Excludes legal, medical, and executive secretaries (43-6011 through 43-6013).

Illustrative examples: Office Secretary, Personal Secretary, School Secretary

43-9000 Other Office and Administrative Support Workers

43-9011 Computer Operators
Monitor and control electronic computer and peripheral electronic data processing equipment to process business, scientific, engineering, and other data according to operating instructions. Monitor and respond to operating and error messages. May enter commands at a computer terminal and set controls on computer and peripheral devices. Excludes “Computer Occupations” (15-1100) and "Data Entry Keyers" (43-9021).

Illustrative examples: Computer Peripheral Equipment Operator, Console Operator

43-9021 Data Entry Keyers
Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing. Excludes "Word Processors and Typists" (43-9022).

Illustrative examples: Data Input Clerk, Data Typist

43-9022 Word Processors and Typists
Use word processor, computer or typewriter to type letters, reports, forms, or other material from rough draft, corrected copy, or voice recording. May perform other clerical duties as assigned. Excludes “Data Entry Keyers" (43-9021), "Secretaries and Administrative Assistants" (43-6011 through 43-6014), "Court Reporters" (23-2091), and "Medical Transcriptionists" (31-9094).

Illustrative examples: Clerk Typist, Transcription Typist

43-9031 Desktop Publishers
Format typescript and graphic elements using computer software to produce publication-ready material.

Illustrative examples: Desktop Publishing Specialist, Electronic Publisher

43-9041 Insurance Claims and Policy Processing Clerks
Process new insurance policies, modifications to existing policies, and claims forms. Obtain information from policyholders to verify the accuracy and completeness of information on claims forms, applications and related documents, and company records. Update existing policies and company records to reflect changes requested by policyholders and insurance company representatives. Excludes “Claims Adjusters, Examiners, and Investigators" (13-1031).

Illustrative examples: Insurance Policy Issue Clerk, Underwriting Clerk

43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service
Prepare incoming and outgoing mail for distribution. Use hand or mail handling machines to time stamp, open, read, sort, and route incoming mail; and address, seal, stamp, fold, stuff, and affix postage to outgoing mail or packages. Duties may also include keeping necessary records and completed forms.

Illustrative examples: Direct Mail Clerk, Mailroom Clerk, Packaging Clerk

43-9061 Office Clerks, General
Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring knowledge of office systems and procedures. Clerical duties may be assigned in accordance with the office procedures of individual establishments and may include a combination of answering telephones, bookkeeping, typing or word processing, stenography, office machine operation, and filing.

Illustrative examples: Administrative Clerk, Office Assistant, Real Estate Clerk

43-9071 Office Machine Operators, Except Computer
Operate one or more of a variety of office machines, such as photocopying, photographic, and duplicating machines, or other office machines. Excludes “Computer Operators" (43-9011), "Mail Clerks and Mail Machine Operators, Except Postal Service" (43-9051) and "Billing and Posting Clerks" (43-3021).

Illustrative examples: Coin Wrapping Machine Operator, Copy Machine Operator

43-9081 Proofreaders and Copy Markers
Read transcript or proof type setup to detect and mark for correction any grammatical, typographical, or compositional errors. Excludes workers whose primary duty is editing copy. Includes proofreaders of Braille.

Illustrative examples: Braille Proofreader, Copy Reader, Editorial Assistant

43-9111 Statistical Assistants
Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks.

Illustrative examples: Actuarial Assistant, Statistical Clerk

43-9199 Office and Administrative Support Workers, All Other
All office and administrative support workers not listed separately.

Illustrative examples: Envelope Stuffer, Fingerprint Clerk, Notary Public

45-1000 Supervisors of Farming, Fishing, and Forestry Workers

45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers
Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers. Excludes “First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers" (37-1012).

Illustrative examples: Corral Boss, Cranberry Bog Supervisor, Fish Hatchery Supervisor

45-2000 Agricultural Workers

45-2011 Agricultural Inspectors
Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.

Illustrative examples: Cattle Examiner, Grain Sampler, Milk Tester

45-2021 Animal Breeders
Select and breed animals according to their genealogy, characteristics, and offspring. May require knowledge of artificial insemination techniques and equipment use. May involve keeping records on heats, birth intervals, or pedigree. Excludes “Nonfarm Animal Caretakers" (39-2021) who may occasionally breed animals as part of their other caretaking duties. Excludes “Animal Scientists" (19-1011) whose primary function is research.

Illustrative examples: Dairy Husbandry Worker, Horse Breeder

45-2041 Graders and Sorters, Agricultural Products
Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition. Excludes “Agricultural Inspectors" (45-2011).

Illustrative examples: Cotton Grader, Egg Grader, Fruit Sorter, Meat Grader

45-2091 Agricultural Equipment Operators
Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops. May perform tasks, such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks, such as husking, shelling, threshing, and ginning.

Illustrative examples: Combine Operator, Hay Baler, Tractor Operator

45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse
Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. Duties may include tilling soil and applying fertilizers; transplanting, weeding, thinning, or pruning crops; applying pesticides; or cleaning, grading, sorting, packing, and loading harvested products. May construct trellises, repair fences and farm buildings, or participate in irrigation activities. Excludes “Graders and Sorters, Agricultural Products" (45-2041) and “Forest, Conservation, and Logging Workers" (45-4011 through 45-4029).

Illustrative examples: Greenhouse Transplanter, Pecan Gatherer, Pepper Picker

45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals
Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey. Duties may include feeding, watering, herding, grazing, castrating, branding, de-beaking, weighing, catching, and loading animals. May maintain records on animals; examine animals to detect diseases and injuries; assist in birth deliveries; and administer medications, vaccinations, or insecticides as appropriate. May clean and maintain animal housing areas. Includes workers who shear wool from sheep, and collect eggs in hatcheries.

Illustrative examples: Cattle Brander, Sheep Shearer, Shrimp Pond Laborer

45-2099 Agricultural Workers, All Other
All agricultural workers not listed separately.

Illustrative examples: Crop Scout, Irrigation Worker

45-3000 Fishing and Hunting Workers

45-3011 Fishers and Related Fishing Workers
Use nets, fishing rods, traps, or other equipment to catch and gather fish or other aquatic animals from rivers, lakes, or oceans, for human consumption or other uses. May haul game onto ship. Aquacultural laborers who work on fish farms are included in "Farmworkers, Farm, Ranch, and Aquacultural Animals" (45-2093).

Illustrative examples: Seaweed Harvester, Wild Oyster Harvester

45-3021 Hunters and Trappers
Hunt and trap wild animals for human consumption, fur, feed, bait, or other purposes.

Illustrative examples: Bird Trapper, Deer Hunter, Predatory Animal Trapper

45-4000 Forest, Conservation, and Logging Workers

45-4011 Forest and Conservation Workers
Under supervision, perform manual labor necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands through such activities as raising and transporting seedlings; combating insects, pests, and diseases harmful to plant life; and building structures to control water, erosion, and leaching of soil. Includes forester aides, seedling pullers, and tree planters.

Illustrative examples: Forestry Laborer, Rangelands Conservation Laborer, Reforestation Worker, Wetlands Conservation Laborer

45-4021 Fallers
Use axes or chainsaws to fell trees using knowledge of tree characteristics and cutting techniques to control direction of fall and minimize tree damage.

Illustrative examples: Lumberjack, Pulpwood Cutter, Timber Cutter

45-4022 Logging Equipment Operators
Drive logging tractor or wheeled vehicle equipped with one or more accessories such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; to skid, load, unload, or stack logs; or to pull stumps or clear brush. Logging truck drivers are included in “Heavy and Tractor-Trailer Truck Drivers” (53-3032).

Illustrative examples: Grapple Skidder Operator, Log Hauler, Logging Tractor Operator, Lumber Stacker Operator

45-4023 Log Graders and Scalers
Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume. Excludes “Buyers and Purchasing Agents, Farm Products" (13-1021).

Illustrative examples: Log Check Scaler, Timber Estimator, Veneer Grader

45-4029 Logging Workers, All Other
All logging workers not listed separately.

Illustrative examples: Log Roper, Rigging Slinger, Timber Hand

47-1000 Supervisors of Construction and Extraction Workers

47-1011 First-Line Supervisors of Construction Trades and Extraction Workers
Directly supervise and coordinate activities of construction or extraction workers.

Illustrative examples: Carpenter Supervisor, Quarry Boss, Rig Supervisor, Solar Panel Installation Supervisor

47-2000 Construction Trades Workers

47-2011 Boilermakers
Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Work involves use of hand and power tools, plumb bobs, levels, wedges, dogs, or turnbuckles. Assist in testing assembled vessels. Direct cleaning of boilers and boiler furnaces. Inspect and repair boiler fittings, such as safety valves, regulators, automatic-control mechanisms, water columns, and auxiliary machines.

Illustrative examples: Boiler Installer, Boiler Mechanic, Boiler Tester

47-2021 Brickmasons and Blockmasons
Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures. Excludes “Stonemasons" (47-2022). Installers of mortarless segmental concrete masonry wall units are classified in "Landscaping and Groundskeeping Workers" (37-3011).

Illustrative examples: Adobe Layer, Brick Chimney Builder, Refractory Bricklayer

47-2022 Stonemasons
Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.

Illustrative examples: Curbstone Setter, Granite Setter, Monument Mason

47-2031 Carpenters
Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; and wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Includes brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways.

Illustrative examples: Building Carpenter, Custom Wood Stair Builder, Wood Floor Layer

47-2041 Carpet Installers
Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials. Excludes “Floor Layers, Except Carpet, Wood, and Hard Tiles" (47-2042).

Illustrative examples: Carpet Layer, Wall-to-Wall Carpet Installer

47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles
Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.

Illustrative examples: Composition Floor Layer, Cork Floor Installer, Linoleum Installer, Shock-Absorption Floor Installer

47-2043 Floor Sanders and Finishers
Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish.

Illustrative examples: Floor Sanding Machine Operator, Floor Scraper, Hardwood Finisher

47-2044 Tile and Marble Setters
Apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks.

Illustrative examples: Ceramic Tile Installer, Hard Tile Setter, Marble Ceiling Installer, Parquet Floor Layer

47-2051 Cement Masons and Concrete Finishers
Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints. Installers of mortarless segmental concrete masonry wall units are classified in "Landscaping and Groundskeeping Workers" (37- 3011).

Illustrative examples: Cement Patcher, Concrete Floor Installer, Concrete Swimming Pool Installer

47-2053 Terrazzo Workers and Finishers
Apply a mixture of cement, sand, pigment, or marble chips to floors, stairways, and cabinet fixtures to fashion durable and decorative surfaces.

Illustrative examples: Onyx-Chip Terrazzo Worker, Terrazzo Grinder, Terrazzo Setter

47-2061 Construction Laborers
Perform tasks involving physical labor at construction sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments. May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, and clean up rubble, debris and other waste materials. May assist other craft workers. Construction laborers who primarily assist a particular craft worker are classified under "Helpers, Construction Trades" (47-3010). Excludes “Hazardous Materials Removal Workers” (47-4041).

Illustrative examples: Air Hammer Operator, Construction Craft Laborer, Construction Trench Digger

47-2071 Paving, Surfacing, and Tamping Equipment Operators
Operate equipment used for applying concrete, asphalt, or other materials to road beds, parking lots, or airport runways and taxiways, or equipment used for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.

Illustrative examples: Asphalt Roller Operator, Blacktop-Paver Operator, Road Grader

47-2072 Pile-Driver Operators
Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures, such as buildings, bridges, and piers.

Illustrative examples: Hydraulic Pile Hammer Operator, Vibratory Pile Driver

47-2073 Operating Engineers and Other Construction Equipment Operators
Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties. Excludes “Crane and Tower Operators" (53-7021) and “Extraction Workers” (47-5000).

Illustrative examples: Bulldozer Operator, Steam Shovel Operator

47-2081 Drywall and Ceiling Tile Installers
Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings to reduce or reflect sound. Materials may be of decorative quality. Includes lathers who fasten wooden, metal, or rockboard lath to walls, ceilings or partitions of buildings to provide support base for plaster, fire-proofing, or acoustical material. Excludes “Carpet Installers" (47-2041), "Carpenters" (47-2031), and "Tile and Marble Setters" (47-2044).

Illustrative examples: Acoustical Ceiling Installer, Drywall Finisher, Sheet Rock Hanger

47-2082 Tapers
Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.

Illustrative examples: Drywall Taper, Sheet Rock Taper, Wall Taper

47-2111 Electricians
Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems. Excludes “Security and Fire Alarm Systems Installers" (49-2098).

Illustrative examples: Electrical Sign Wirer, Master Electrician, Solar Photovoltaic Electrician

47-2121 Glaziers
Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops.

Illustrative examples: Plate Glass Installer, Stained Glass Joiner

47-2131 Insulation Workers, Floor, Ceiling, and Wall
Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.

Illustrative examples: Ceiling Insulation Blower, Composition Weatherboard Installer, Interior Surface Insulation Worker

47-2132 Insulation Workers, Mechanical
Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.

Illustrative examples: Boiler Coverer, Pipe Coverer, Pipe Insulator

47-2141 Painters, Construction and Maintenance
Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency. Excludes “Paperhangers" (47-2142).

Illustrative examples: Bridge Painter, House Painter, Traffic Line Painter

47-2142 Paperhangers
Cover interior walls or ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces such as walls and billboards. May remove old materials or prepare surfaces to be papered.

Illustrative examples: Billboard Poster, Wall Covering Installer, Wallpaperer

47-2151 Pipelayers
Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints. Excludes “Welders, Cutters, Solderers, and Brazers" (51-4121).

Illustrative examples: Cast-Iron Drain Pipe Layer, Trench Pipe Layer, Water Main Pipe Layer

47-2152 Plumbers, Pipefitters, and Steamfitters
Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.

Illustrative examples: Fire Sprinkler Installer, Solar Thermal Installer, Sprinkler Fitter

47-2161 Plasterers and Stucco Masons
Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.

Illustrative examples: Ornamental Plasterer, Stucco Worker, Swimming Pool Plasterer

47-2171 Reinforcing Iron and Rebar Workers
Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Use a variety of fasteners, rod-bending machines, blowtorches, and hand tools. Includes rod busters.

Illustrative examples: Post Tensioning Iron Worker, Steel Rod Buster

47-2181 Roofers
Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.

Illustrative examples: Hot Tar Roofer, Shingles Roofer, Terra Cotta Roofer

47-2211 Sheet Metal Workers
Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. Work may involve any of the following: setting up and operating fabricating machines to cut, bend, and straighten sheet metal; shaping metal over anvils, blocks, or forms using hammer; operating soldering and welding equipment to join sheet metal parts; or inspecting, assembling, and smoothing seams and joints of burred surfaces. Includes sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes.

Illustrative examples: Heating, Ventilation, and Air Conditioning (HVAC) Sheet Metal Installer; Sheet Metal Former; Tinsmith

47-2221 Structural Iron and Steel Workers
Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. Excludes “Reinforcing Iron and Rebar Workers" (47-2171).

Illustrative examples: Bridge Ironworker, Precast Concrete Ironworker, Wind Turbine Erector

47-2231 Solar Photovoltaic Installers
Assemble, install, or maintain solar photovoltaic (PV) systems on roofs or other structures in compliance with site assessment and schematics. May include measuring, cutting, assembling, and bolting structural framing and solar modules. May perform minor electrical work such as current checks. Excludes solar thermal installers who are included in “Plumbers, Pipefitters, and Steamfitters” (47-2152). Excludes solar PV electricians who are included in “Electricians” (47-2111).

Illustrative examples: Photovoltaic (PV) Installation Technician, Solar PV Installer

47-3000 Helpers, Construction Trades

47-3011 Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters
Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist brickmasons, blockmasons, and stonemasons or tile and marble setters are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Brick Carrier, Brick Washer, Refractory Tile Helper

47-3012 Helpers—Carpenters
Help carpenters by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist carpenters are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Carpenter Assistant, Hardwood Floor Installation Helper

47-3013 Helpers—Electricians
Help electricians by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist electricians are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Marine Electrician Helper, Stage Electrician Helper

47-3014 Helpers—Painters, Paperhangers, Plasterers, and Stucco Masons
Help painters, paperhangers, plasterers, or stucco masons by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist painters, paperhangers, plasterers, or stucco masons are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Bridge Painter Helper, Dry Plasterer Helper, Wallpaperer Helper

47-3015 Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters
Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist plumbers, pipefitters, steamfitters, or pipelayers are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Industrial Gas Fitter Helper, Marine Pipefitter Helper, Plumber Assistant, Water Main Installer Helper

47-3016 Helpers—Roofers
Help roofers by performing duties requiring less skill. Duties include using, supplying or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist roofers are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Hot Tar Roofer Helper, Shingles Roofer Helper, Slate Roofer Helper, Terra Cotta Roofer Helper

47-3019 Helpers, Construction Trades, All Other
All construction trades helpers not listed separately.

Illustrative examples: Cellulose Insulation Helper, Drywall Hanger Helper, Rod Buster Helper, Terrazzo Finisher Helper

47-4000 Other Construction and Related Workers

47-4011 Construction and Building Inspectors
Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.

Illustrative examples: Electrical Inspector, Elevator Inspector, Highway Inspector

47-4021 Elevator Installers and Repairers
Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.

Illustrative examples: Elevator Mechanic, Escalator Installer, Hydraulic Elevator Constructor

47-4031 Fence Erectors
Erect and repair fences and fence gates, using hand and power tools.

Illustrative examples: Wire Fence Builder, Wood Fence Installer

47-4041 Hazardous Materials Removal Workers
Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, or contaminated soil. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earth-moving equipment or trucks.

Illustrative examples: Asbestos Abatement Worker, Decontamination Worker, Irradiated Fuel Handler

47-4051 Highway Maintenance Workers
Maintain highways, municipal and rural roads, airport runways, and rights-of-way. Duties include patching broken or eroded pavement, repairing guard rails, highway markers, and snow fences. May also mow or clear brush from along road or plow snow from roadway. Excludes “Tree Trimmers and Pruners" (37-3013).

Illustrative examples: Road Patcher, Road Sign Installer

47-4061 Rail-Track Laying and Maintenance Equipment Operators
Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. Includes ballast cleaning machine operators and railroad bed tamping machine operators.

Illustrative examples: Rail Maintenance Worker, Track Repairer, Track Surfacing Machine Operator

47-4071 Septic Tank Servicers and Sewer Pipe Cleaners
Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.

Illustrative examples: Electric Sewer Cleaning Machine Operator, Septic Tank Cleaner, Sewage Screen Operator

47-4091 Segmental Pavers
Lay out, cut, and place segmental paving units. Includes installers of bedding and restraining materials for the paving units.

Illustrative examples: Concrete Pavement Installer, Paving Stone Installer

47-4099 Construction and Related Workers, All Other
All construction and related workers not listed separately.

Illustrative examples: Aluminum Pool Installer, Waterproofer

47-5000 Extraction Workers

47-5011 Derrick Operators, Oil and Gas
Rig derrick equipment and operate pumps to circulate mud through drill hole.

Illustrative examples: Rotary Derrick Operator, Well Service Derrick Worker

47-5012 Rotary Drill Operators, Oil and Gas
Set up or operate a variety of drills to remove underground oil and gas, or remove core samples for testing during oil and gas exploration. Excludes “Earth Drillers, Except Oil and Gas” (47-5021).

Illustrative examples: Oil Well Cable Tool Operator, Oil Well Driller

47-5013 Service Unit Operators, Oil, Gas, and Mining
Operate equipment to increase oil flow from producing wells or to remove stuck pipe, casing, tools, or other obstructions from drilling wells. May also perform similar services in mining exploration operations. Includes fishing-tool technicians.

Illustrative example: Well Servicing Rig Operator

47-5021 Earth Drillers, Except Oil and Gas
Operate a variety of drills such as rotary, churn, and pneumatic to tap sub-surface water and salt deposits, to remove core samples during mineral exploration or soil testing, and to facilitate the use of explosives in mining or construction. May use explosives. Includes horizontal and earth boring machine operators.

Illustrative examples: Blast Hole Driller, Churn Driller, Earth Auger Operator

47-5031 Explosives Workers, Ordnance Handling Experts, and Blasters
Place and detonate explosives to demolish structures or to loosen, remove, or displace earth, rock, or other materials. May perform specialized handling, storage, and accounting procedures. Includes seismograph shooters. Excludes “Earth Drillers, Except Oil and Gas" (47-5021) who may also work with explosives.

Illustrative examples: Blast Setter, Dynamiter, Explosive Technician

47-5041 Continuous Mining Machine Operators
Operate self-propelled mining machines that rip coal, metal and nonmetal ores, rock, stone, or sand from the mine face and load it onto conveyors or into shuttle cars in a continuous operation.

Illustrative examples: Continuous Mining Machine Lode Miner, Self-Propelled Mining Machine Operator

47-5042 Mine Cutting and Channeling Machine Operators
Operate machinery such as longwall shears, plows, and cutting machines to cut or channel along the face or seams of coal mines, stone quarries, or other mining surfaces to facilitate blasting, separating, or removing minerals or materials from mines or from the Earth's surface. Includes shale planers.

Illustrative examples: Bore Miner Operator, Clay Mine Cutting Machine Operator, Long Wall Shear Operator

47-5049 Mining Machine Operators, All Other
All mining machine operators not listed separately.

Illustrative examples: Dry Placer Machine Operator, Rock Dust Sprayer

47-5051 Rock Splitters, Quarry
Separate blocks of rough dimension stone from quarry mass using jackhammer and wedges.

Illustrative examples: Quarry Plug and Feather Driller, Sandstone Splitter

47-5061 Roof Bolters, Mining
Operate machinery to install roof support bolts in underground mine.

Illustrative examples: Roof Bolting Coal Miner, Underground Bolting Machine Operator, Underground Roof Bolter

47-5071 Roustabouts, Oil and Gas
Assemble or repair oil field equipment using hand and power tools. Perform other tasks as needed.

Illustrative examples: Oil Field Roustabout, Oil Rig Roughneck

47-5081 Helpers—Extraction Workers
Help extraction craft workers, such as earth drillers, blasters and explosives workers, derrick operators, and mining machine operators, by performing duties requiring less skill. Duties include supplying equipment or cleaning work area. Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

Illustrative examples: Blaster Helper, Mining Helper, Roof Bolter Helper

47-5099 Extraction Workers, All Other
All extraction workers not listed separately.

Illustrative example: Sandfill Operator

49-1000 Supervisors of Installation, Maintenance, and Repair Workers

49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers
Directly supervise and coordinate the activities of mechanics, installers, and repairers. Excludes team or work leaders.

Illustrative example: Automobile Body Repair Supervisor, Fleet Maintenance Supervisor, Railroad Car Repair Supervisor

49-2000 Electrical and Electronic Equipment Mechanics, Installers, and Repairers

49-2011 Computer, Automated Teller, and Office Machine Repairers
Repair, maintain, or install computers, word processing systems, automated teller machines, and electronic office machines, such as duplicating and fax machines.

Illustrative examples: ATM Servicer, Cash Register Servicer, Data Processing Equipment Repairer

49-2021 Radio, Cellular, and Tower Equipment Installers and Repairers
Repair, install or maintain mobile or stationary radio transmitting, broadcasting, and receiving equipment, and two-way radio communications systems used in cellular telecommunications, mobile broadband, ship-to-shore, aircraft-to-ground communications, and radio equipment in service and emergency vehicles. May test and analyze network coverage.

Illustrative examples: Radio Frequency Technician, Radio Mechanic, Two-Way Radio Technician

49-2022 Telecommunications Equipment Installers and Repairers, Except Line Installers
Install, set-up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, Internet, and other communications equipment on customers' property. May install communications equipment or communications wiring in buildings. Excludes “Telecommunications Line Installers and Repairers” (49-9052).

Illustrative examples: Fiber Optic Central Office Installer, Private Branch Exchange (PBX) Installer and Repairer

49-2091 Avionics Technicians
Install, inspect, test, adjust, or repair avionics equipment, such as radar, radio, navigation, and missile control systems in aircraft or space vehicles.

Illustrative examples: Aircraft Electrician, Aircraft Instrument Mechanic, Automatic Pilot Mechanic

49-2092 Electric Motor, Power Tool, and Related Repairers
Repair, maintain, or install electric motors, wiring, or switches.

Illustrative examples: Armature Rewinder, Electrical Parts Reconditioner

49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment
Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment. Excludes “Avionics Technicians" (49-2091) and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).

Illustrative examples: Locomotive Electrician, Marine Electronics Repairer

49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment
Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. Excludes “Avionics Technicians" (49-2091), "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096), and "Electrical and Electronics Installers and Repairers, Transportation Equipment" (49-2093).

Illustrative examples: Industrial Robotics Mechanic, Missile Pad Mechanic, Public Address System Mechanic

49-2095 Electrical and Electronics Repairers, Powerhouse, Substation, and Relay
Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.

Illustrative examples: Power Transformer Repairer, Powerhouse Electrician, Relay Technician

49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles
Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles.

Illustrative examples: Automotive Electrician, Car Alarm Installer, Car Stereo Installer, GPS Car Navigation Installer

49-2097 Electronic Home Entertainment Equipment Installers and Repairers
Repair, adjust, or install audio or television receivers, stereo systems, camcorders, video systems, or other electronic home entertainment equipment.

Illustrative examples: Electronic Musical Instrument Repairer, Home Theater Installer, Satellite Dish Installer, Wireless Internet Installer

49-2098 Security and Fire Alarm Systems Installers
Install, program, maintain, or repair security or fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes. Excludes “Electricians" (47-2111) who do a broad range of electrical wiring.

Illustrative examples: Burglar Alarm Installer, Fire Alarm Installer, Home Security Alarm Installer

49-3000 Vehicle and Mobile Equipment Mechanics, Installers, and Repairers

49-3011 Aircraft Mechanics and Service Technicians
Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists. Excludes “Avionics Technician" (49-2091).

Illustrative examples: Aircraft Engine Specialist, Airframe Mechanic, Flight Test Mechanic

49-3012 Aircraft Mechanics and Service Technicians, FAA Certified
Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. FAA certification required. Include FAA certified helicopter and aircraft engine specialists. Excludes “Avionics Technician" (49-2091).

49-3013 Aircraft Mechanics and Service Technicians, not FAA Certified
Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Include helicopter and aircraft engine specialists. Excludes “Avionics Technician" (49-2091).

49-3021 Automotive Body and Related Repairers
Repair and refinish automotive vehicle bodies and straighten vehicle frames. Excludes “Painters, Transportation Equipment" (51-9122) and "Automotive Glass Installers and Repairers" (49-3022).

Illustrative examples: Auto Body Customizer, Auto Bumper Straightener, Truck Body Repairer

49-3022 Automotive Glass Installers and Repairers
Replace or repair broken windshields and window glass in motor vehicles.

Illustrative examples: Auto Glass Mechanic, Automotive Glazier, Windshield Installer

49-3023 Automotive Service Technicians and Mechanics
Diagnose, adjust, repair, or overhaul automotive vehicles. Excludes “Automotive Body and Related Repairers" (49-3021), "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031), and "Electronic Equipment Installers and Repairers, Motor Vehicles" (49-2096).

Illustrative examples: Auto Transmission Specialist, Automotive Brake Technician, Automotive Fuel Injection Servicer, Hybrid Car Mechanic

49-3031 Bus and Truck Mechanics and Diesel Engine Specialists
Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.

Illustrative examples: Biodiesel Engine Specialist, Marine Diesel Technician, School Bus Mechanic, Tractor Trailer Mechanic

49-3041 Farm Equipment Mechanics and Service Technicians
Diagnose, adjust, repair, or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).

Illustrative examples: Combine Mechanic, Dairy Equipment Repairer, Irrigation Equipment Mechanic

49-3042 Mobile Heavy Equipment Mechanics, Except Engines
Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining. Excludes “Rail Car Repairers" (49-3043) and "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).

Illustrative examples: Bulldozer Mechanic, Construction Equipment Mechanic, Forklift Mechanic

49-3043 Rail Car Repairers
Diagnose, adjust, repair, or overhaul railroad rolling stock, mine cars, or mass transit rail cars. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).

Illustrative examples: Mine Car Mechanic, Street Car Repairer, Subway Car Repairer, Trolley Car Overhauler

49-3051 Motorboat Mechanics and Service Technicians
Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines. Excludes “Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031).

Illustrative examples: Certified Marine Mechanic, Outboard Motor Mechanic

49-3052 Motorcycle Mechanics
Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes, or similar motorized vehicles.

Illustrative examples: All Terrain Vehicle Technician, Motorcycle Service Technician, Motor Scooter Mechanic

49-3053 Outdoor Power Equipment and Other Small Engine Mechanics
Diagnose, adjust, repair, or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment and related equipment.

Illustrative examples: Golf Cart Mechanic, Lawn Mower Repairer, Mobility Scooter Repairer, Power Saw Mechanic

49-3091 Bicycle Repairers
Repair and service bicycles.

Illustrative examples: Bicycle Mechanic, Bicycle Service Technician

49-3092 Recreational Vehicle Service Technicians
Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components. Includes workers who perform customized van conversions. Excludes “Automotive Service Technicians and Mechanics" (49-3023) and "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031) who also work on recreation vehicles.

Illustrative examples: Recreational Vehicle (RV) Repairer, RV Mechanic

49-3093 Tire Repairers and Changers
Repair and replace tires.

Illustrative examples: Tire Balancer, Tire Fixer

49-9000 Other Installation, Maintenance, and Repair Occupations

49-9011 Mechanical Door Repairers
Install, service, or repair automatic door mechanisms and hydraulic doors. Includes garage door mechanics.

Illustrative example: Automatic Door Mechanic

49-9012 Control and Valve Installers and Repairers, Except Mechanical Door
Install, repair, and maintain mechanical regulating and controlling devices, such as electric meters, gas regulators, thermostats, safety and flow valves, and other mechanical governors.

Illustrative examples: Air Valve Mechanic, Gas Meter Installer, Thermostat Repairer

49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers
Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

Illustrative examples: Gas Furnace Installer; Heating, Ventilation, and Air Conditioning (HVAC) Mechanic; Oil Burner Repairer

49-9031 Home Appliance Repairers
Repair, adjust, or install all types of electric or gas household appliances, such as refrigerators, washers, dryers, and ovens.

Illustrative examples: Vacuum Cleaner Repairer, Washing Machine Installer, Window Air Conditioner Installer

49-9041 Industrial Machinery Mechanics
Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. Excludes “Millwrights" (49-9044), "Mobile Heavy Equipment Mechanics, Except Engines" (49-3042), and "Maintenance Workers, Machinery" (49-9043).

Illustrative examples: Boilerhouse Mechanic, Foundry Equipment Mechanic, Hydroelectric Machinery Mechanic

49-9043 Maintenance Workers, Machinery
Lubricate machinery, change parts, or perform other routine machinery maintenance. Excludes “Maintenance and Repair Workers, General" (49-9071).

Illustrative example: Crane Oiler

49-9044 Millwrights
Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Illustrative examples: Machine Erector, Machinery Dismantler, Maintenance Millwright

49-9045 Refractory Materials Repairers, Except Brickmasons
Build or repair equipment such as furnaces, kilns, cupolas, boilers, converters, ladles, soaking pits and ovens, using refractory materials.

Illustrative examples: Bondactor Machine Repairer, Cupola Repairer, Kiln Door Builder, Ladle Repairer

49-9051 Electrical Power-Line Installers and Repairers
Install or repair cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmission towers. Excludes “Electrical and Electronics Repairers, Powerhouse, Substation, and Relay" (49-2095).

Illustrative examples: Electric Powerline Examiner, Electric Utility Lineworker, Electrical High Tension Tester, Electrical Lineworker

49-9052 Telecommunications Line Installers and Repairers
Install and repair telecommunications cable, including fiber optics.

Illustrative examples: Cable Television Installer, FIOS Line Installer, Telephone Cable Splicer

49-9061 Camera and Photographic Equipment Repairers
Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment.

Illustrative example: Aircraft Photographic Equipment Repairer, Camera Repairer, Photographic Equipment Technician

49-9062 Medical Equipment Repairers
Test, adjust, or repair biomedical or electromedical equipment.

Illustrative examples: Biomedical Equipment Technician, Radiology Equipment Servicer, Surgical Instrument Mechanic

49-9063 Musical Instrument Repairers and Tuners
Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning. Excludes “Electronic Home Entertainment Equipment Installers and Repairers" (49-2097) who repair electrical and electronic musical instruments.

Illustrative examples: Brass and Wind Instrument Repairer, Piano Tuner, Violin Repairer

49-9064 Watch Repairers
Repair, clean, and adjust mechanisms of timing instruments, such as watches and clocks. Includes watchmakers, watch technicians, and mechanical timepiece repairers.

Illustrative examples: Antique Clock Repairer, Clock Repair Technician, Horologist

49-9069 Precision Instrument and Equipment Repairers, All Other
All precision instrument and equipment repairers not listed separately.

Illustrative examples: Gyroscope Repairer, Telescope Repairer

49-9071 Maintenance and Repair Workers, General
Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. Excludes “Maintenance Workers, Machinery" (49-9043).

Illustrative example: Building Maintenance Mechanic

49-9081 Wind Turbine Service Technicians
Inspect, diagnose, adjust, or repair wind turbines. Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions.

Illustrative examples: Wind Energy Technician, Wind Turbine Mechanic

49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers
Install, service, adjust, or repair coin, vending, or amusement machines including video games, juke boxes, pinball machines, or slot machines.

Illustrative examples: Arcade Games Mechanic, Parking Meter Collector, Slot Machine Mechanic, Vending Machine Filler

49-9092 Commercial Divers
Work below surface of water, using scuba gear to inspect, repair, remove, or install equipment and structures. May use a variety of power and hand tools, such as drills, sledgehammers, torches, and welding equipment. May conduct tests or experiments, rig explosives, or photograph structures or marine life. Excludes “Fishers and Related Fishing Workers" (45-3011), "Athletes and Sports Competitors" (27-2021), and "Police and Sheriff's Patrol Officers" (33-3051).

Illustrative examples: Marine Diver, Salvage Diver, Scuba Diver, Underwater Welder

49-9093 Fabric Menders, Except Garment
Repair tears, holes, and other defects in fabrics, such as draperies, linens, parachutes, and tents.

Illustrative examples: Fabric Awning Repairer, Parachute Repairer, Sail Repairer

49-9094 Locksmiths and Safe Repairers
Repair and open locks; make keys; change locks and safe combinations; and install and repair safes.

Illustrative examples: Key Maker, Safe and Vault Installer, Safe and Vault Mechanic

49-9095 Manufactured Building and Mobile Home Installers
Move or install mobile homes or prefabricated buildings.

Illustrative examples: Housetrailer Servicer, Mobile Home Mechanic, Mobile Home Servicer

49-9096 Riggers
Set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards, or for the entertainment industry.

Illustrative examples: Acrobatic Rigger, Crane Rigger, Yard Rigger

49-9097 Signal and Track Switch Repairers
Install, inspect, test, maintain, or repair electric gate crossings, signals, signal equipment, track switches, section lines, or intercommunications systems within a railroad system.

Illustrative examples: Light Rail Signal Technician, Rail Signal Mechanic, Third Rail Installer

49-9098 Helpers—Installation, Maintenance, and Repair Workers
Help installation, maintenance, and repair workers in maintenance, parts replacement, and repair of vehicles, industrial machinery, and electrical and electronic equipment. Perform duties such as furnishing tools, materials, and supplies to other workers; cleaning work area, machines, and tools; and holding materials or tools for other workers.

Illustrative examples: Automobile Body Repairer Helper, Locksmith Helper, Motorboat Mechanic Helper

49-9099 Installation, Maintenance, and Repair Workers, All Other
All installation, maintenance, and repair workers not listed separately.

Illustrative examples: Bowling Alley Mechanic, Fire Extinguisher Installer, Gasoline Pump Installer, Gunsmith

51-1000 Supervisors of Production Workers

51-1011 First-Line Supervisors of Production and Operating Workers
Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Excludes team or work leaders.

Illustrative examples: Assembly Line Supervisor, Machinist Supervisor, Printing Worker Supervisor

51-2000 Assemblers and Fabricators

51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers
Assemble, fit, fasten, and install parts of airplanes, space vehicles, or missiles, such as tails, wings, fuselage, bulkheads, stabilizers, landing gear, rigging and control equipment, or heating and ventilating systems.

Illustrative examples: Aircraft De-Icer Installer, Aircraft Fuselage Framer, Aircraft Riveter

51-2021 Coil Winders, Tapers, and Finishers
Wind wire coils used in electrical components, such as resistors and transformers, and in electrical equipment and instruments, such as field cores, bobbins, armature cores, electrical motors, generators, and control equipment.

Illustrative examples: Coil Builder, Motor Winder, Wire Coiler

51-2022 Electrical and Electronic Equipment Assemblers
Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries.

Illustrative examples: Anode Builder, Battery Builder, Circuit Board Assembler, Electric Motor Controls Assembler

51-2023 Electromechanical Equipment Assemblers
Assemble or modify electromechanical equipment or devices, such as servomechanisms, gyros, dynamometers, magnetic drums, tape drives, brakes, control linkage, actuators, and appliances.

Illustrative examples: Programmable Logic Controller Assembler, Synchronous Motor Assembler, Vacuum Cleaner Assembler, Vending Machine Assembler

51-2031 Engine and Other Machine Assemblers
Construct, assemble, or rebuild machines, such as engines, turbines, and similar equipment used in such industries as construction, extraction, textiles, and paper manufacturing.

Illustrative examples: Gas Turbine Assembler, Machine Builder, Steam Turbine Assembler

51-2041 Structural Metal Fabricators and Fitters
Fabricate, position, align, and fit parts of structural metal products. Shipfitters are included in “Layout Workers, Metal and Plastic” (51-4192).

Illustrative examples: Mill Beam Fitter, Protector Plate Attacher

51-2091 Fiberglass Laminators and Fabricators
Laminate layers of fiberglass on molds to form boat decks and hulls, bodies for golf carts, automobiles, or other products.

Illustrative examples: Fiberglass Boat Builder, Fiberglass Ski Maker

51-2092 Team Assemblers
Work as part of a team having responsibility for assembling an entire product or component of a product. Team assemblers can perform all tasks conducted by the team in the assembly process and rotate through all or most of them rather than being assigned to a specific task on a permanent basis. May participate in making management decisions affecting the work. Includes team leaders who work as part of the team. Assemblers who continuously perform the same task are classified elsewhere in 51-2000.

Illustrative examples: Team Assembly Line Machine Operator, Lead Team Assembler, Team Automobile Assembler

51-2093 Timing Device Assemblers and Adjusters
Perform precision assembling, adjusting, or calibrating, within narrow tolerances, of timing devices such as digital clocks or timing devices with electrical or electronic components. Excludes watchmakers, which are included in “Watch Repairers" (49-9064).

Illustrative examples: Digital Watch Assembler, Electrical Timing Device Calibrator, Marine Chronometer Assembler

51-2099 Assemblers and Fabricators, All Other
All assemblers and fabricators not listed separately.

Illustrative examples: Air Bag Builder, Crate Builder, Doll Maker

51-3000 Food Processing Workers

51-3011 Bakers
Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods. Pastry chefs in restaurants and hotels are included with "Chefs and Head Cooks" (35-1011).

Illustrative examples: Bagel Maker, Bread Baker, Pastry Finisher

51-3021 Butchers and Meat Cutters
Cut, trim, or prepare consumer-sized portions of meat for use or sale in retail establishments.

Illustrative examples: Butcher Apprentice, Kosher Butcher, Meat Carver, Meat Counter Worker

51-3022 Meat, Poultry, and Fish Cutters and Trimmers
Use hand or hand tools to perform routine cutting and trimming of meat, poultry, and seafood.

Illustrative examples: Fish Filleter, Oyster Shucker, Poultry Eviscerator, Shrimp Picker

51-3023 Slaughterers and Meat Packers
Work in slaughtering, meat packing, or wholesale establishments performing precision functions involving the preparation of meat. Work may include specialized slaughtering tasks, cutting standard or premium cuts of meat for marketing, making sausage, or wrapping meats. Excludes “Meat, Poultry, and Fish Cutters and Trimmers" (51-3022) who perform routine meat cutting.

Illustrative examples: Halal Meat Packer, Poultry Slaughter, Shochet

51-3091 Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
Operate or tend food or tobacco roasting, baking, or drying equipment, including hearth ovens, kiln driers, roasters, char kilns, and vacuum drying equipment.

Illustrative examples: Coffee Roaster, Fish Smoker, Meat Curer, Smokehouse Worker

51-3092 Food Batchmakers
Set up and operate equipment that mixes or blends ingredients used in the manufacturing of food products. Includes candy makers and cheese makers.

Illustrative examples: Frozen Yogurt Maker, Honey Blender, Peanut Butter Maker

51-3093 Food Cooking Machine Operators and Tenders
Operate or tend cooking equipment, such as steam cooking vats, deep fry cookers, pressure cookers, kettles, and boilers, to prepare food products. Excludes “Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders" (51-3091).

Illustrative examples: Doughnut Machine Operator, Dumpling Machine Operator, Potato Chip Frier

51-3099 Food Processing Workers, All Other
All food processing workers not listed separately.

Illustrative examples: Olive Pitter, Poultry Hanger, Yeast Maker

51-4000 Metal Workers and Plastic Workers

51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic
Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.

Illustrative examples: Computer Numerically Controlled (CNC) Shot Peening Operator, Jig Boring Machine Operator for Metal, Welding Robot Operator

51-4012 Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic
Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems.

Illustrative examples: Metal Numerical Control Programmer, Metal Numerical Tool Programmer, Sheet Metal Computer Numerically Controlled (CNC) Programmer

51-4021 Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend machines to extrude or draw thermoplastic or metal materials into tubes, rods, hoses, wire, bars, or structural shapes.

Illustrative example: Wire Drawing Machine Tender

51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts.

Illustrative examples: Cold Header Operator, Forging Roll Operator, Spike Machine Operator, Swager Operator

51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material.

Illustrative examples: Brass Roller, Forming Roll Operator, Plastic Straightening Roll Operator, Steel Roller

51-4031 Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material.

Illustrative examples: Crimping Machine Operator for Metal, Metal Punch Press Operator, Metal Slitter

51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces.

Illustrative examples: Boring Mill Operator for Metal, Drill Press Operator for Metal, Radial Drill Press Operator for Plastic

51-4033 Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces.

Illustrative examples: Aluminum Polisher, Jewel Bearing Facer, Metal Grinder, Tool Polishing Machine Operator

51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock.

Illustrative examples: Engine Lathe Operator, Gear Cutter, Screw Machine Operator

51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces.

Illustrative examples: Metal Milling Machine Operator, Plastic Thread Milling Machine Setup Operator

51-4041 Machinists
Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures.

Illustrative examples: Automotive Machinist, Gear Machinist, Production Machinist

51-4051 Metal-Refining Furnace Operators and Tenders
Operate or tend furnaces, such as gas, oil, coal, electric-arc or electric induction, open-hearth, or oxygen furnaces, to melt and refine metal before casting or to produce specified types of steel. Excludes “Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic" (51-4191).

Illustrative examples: Electric Arc Furnace Operator, Smelter Operator

51-4052 Pourers and Casters, Metal
Operate hand-controlled mechanisms to pour and regulate the flow of molten metal into molds to produce castings or ingots.

Illustrative examples: Ingot Caster, Molten Iron Pourer, Steel Pourer

51-4061 Model Makers, Metal and Plastic
Set up and operate machines, such as lathes, milling and engraving machines, and jig borers to make working models of metal or plastic objects. Includes template makers.

Illustrative examples: Metal Mockup Maker, Plastic Jig and Fixture Builder

51-4062 Patternmakers, Metal and Plastic
Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns, core boxes, or match plates.

51-4071 Foundry Mold and Coremakers
Make or form wax or sand cores or molds used in the production of metal castings in foundries.

Illustrative examples: Airset Caster, Green Sand Molder, Wax Pattern Coater

51-4072 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend metal or plastic molding, casting, or coremaking machines to mold or cast metal or thermoplastic parts or products.

Illustrative examples: Aluminum Molding Machine Operator, Blow Mold Operator, Plastic Cup Fabricating Machine Operator

51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend more than one type of cutting or forming machine tool or robot.

Illustrative examples: Combination Machine Tool Operator, Multi-operation Forming Machine Setter

51-4111 Tool and Die Makers
Analyze specifications, lay out metal stock, set up and operate machine tools, and fit and assemble parts to make and repair dies, cutting tools, jigs, fixtures, gauges, and machinists' hand tools.

Illustrative examples: Jig Bore Tool Maker, Metal Die Finisher, Metal Gauge Maker

51-4121 Welders, Cutters, Solderers, and Brazers
Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

Illustrative examples: Arc Welder, Cutting Torch Operator, Pipe Welder, Silver Solderer

51-4122 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders
Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines.

Illustrative examples: Electric Beam Welder Setter, Ultrasonic Welding Machine Operator

51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects.

Illustrative examples: Annealing Furnace Operator, Induction Machine Setter, Wire Temperer

51-4192 Layout Workers, Metal and Plastic
Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters.

Illustrative example: Shipfitter Apprentice

51-4193 Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic
Set up, operate, or tend plating or coating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. Includes electrolytic processes.

Illustrative examples: Anodizer, Galvanizer, Nickel Plater

51-4194 Tool Grinders, Filers, and Sharpeners
Perform precision smoothing, sharpening, polishing, or grinding of metal objects.

Illustrative example: Tool Grinding Machine Operator

51-4199 Metal Workers and Plastic Workers, All Other
All metal workers and plastic workers not listed separately.

Illustrative examples: Electrical Discharge Machine Setup Operator, Metal Rivet Machine Operator, Tin Recovery Worker

51-5100 Printing Workers

51-5111 Prepress Technicians and Workers

Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates.

Illustrative examples: Digital Proofing and Platemaker, Photoengraver, Plate Mounter

51-5112 Printing Press Operators

Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses.

Illustrative examples: Gravure Press Operator, Offset Press Operator, Web Press Operator

51-5113 Print Binding and Finishing Workers

Bind books and other publications or finish printed products by hand or machine. May set up binding and finishing machines.

Illustrative examples: Bookbinder, Bookbinding Machine Operator

51-6000 Textile, Apparel, and Furnishings Workers

51-6011 Laundry and Dry-Cleaning Workers

Operate or tend washing or dry-cleaning machines to wash or dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies, linens, rugs, and carpets. Includes spotters and dyers of these articles.

Illustrative examples: Laundry Attendant, Laundry Equipment Operator, Laundry Sorter

51-6021 Pressers, Textile, Garment, and Related Materials

Press or shape articles by hand or machine.

Illustrative examples: Clothes Ironer, Pants Presser, Wool Presser

51-6031 Sewing Machine Operators

Operate or tend sewing machines to join, reinforce, decorate, or perform related sewing operations in the manufacture of garment or nongarment products.

Illustrative examples: Blind Stitch Machine Operator, Button Sewing Machine Operator, Custom T-Shirt Embroidery Machine Operator

51-6041 Shoe and Leather Workers and Repairers

Construct, decorate, or repair leather and leather-like products, such as luggage, shoes, and saddles.

Illustrative examples: Cobbler, Saddle Maker, Shoemaker

51-6042 Shoe Machine Operators and Tenders

Operate or tend a variety of machines to join, decorate, reinforce, or finish shoes and shoe parts.

Illustrative examples: Arch Cushion Press Operator, Lasting Machine Operator, Rasper Machine Operator

51-6051 Sewers, Hand
Sew, join, reinforce, or finish, usually with needle and thread, a variety of manufactured items. Includes weavers and stitchers. Excludes “Fabric Menders, Except Garment" (49-9093).

Illustrative examples: Hand Quilter, Hand Stitcher

51-6052 Tailors, Dressmakers, and Custom Sewers
Design, make, alter, repair, or fit garments.

Illustrative examples: Alterations Tailor, Coat Maker, Vest Maker

51-6061 Textile Bleaching and Dyeing Machine Operators and Tenders
Operate or tend machines to bleach, shrink, wash, dye, or finish textiles or synthetic or glass fibers.

Illustrative examples: Cloth Dyer, Rug Dyer, Skein Yarn Dyer

51-6062 Textile Cutting Machine Setters, Operators, and Tenders
Set up, operate, or tend machines that cut textiles.

Illustrative examples: Canvas Cutter, Industrial Fabric Cutter, Welt Trimming Machine Operator

51-6063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders
Set up, operate, or tend machines that knit, loop, weave, or draw in textiles. Excludes “Sewing Machine Operators" (51-6031).

Illustrative examples: Crochet Machine Operator, Jacquard Loom Weaver, Looping Machine Operator

51-6064 Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders
Set up, operate, or tend machines that wind or twist textiles; or draw out and combine sliver, such as wool, hemp, or synthetic fibers. Includes slubber machine and drawing frame operators.

Illustrative examples: Rope Machine Setter, Silk Winding Machine Operator

51-6091 Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers
Set up, operate, or tend machines that extrude and form continuous filaments from synthetic materials, such as liquid polymer, rayon, and fiberglass.

Illustrative examples: Fiber Machine Tender, Synthetic Filament Extruder

51-6092 Fabric and Apparel Patternmakers
Draw and construct sets of precision master fabric patterns or layouts. May also mark and cut fabrics and apparel.

Illustrative examples: Clothing Patternmaker, Embroidery Patternmaker, Fabric Pattern Grader

51-6093 Upholsterers
Make, repair, or replace upholstery for household furniture or transportation vehicles.

Illustrative examples: Aircraft Seat Upholsterer, Furniture Upholsterer

51-6099 Textile, Apparel, and Furnishings Workers, All Other
All textile, apparel, and furnishings workers not listed separately.

Illustrative examples: Apparel Embroidery Digitizer, Feltmaker, Hat Blocking Machine Operator

51-7000 Woodworkers

51-7011 Cabinetmakers and Bench Carpenters
Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws, jointers, and mortisers to surface, cut, or shape lumber or to fabricate parts for wood products. Excludes “Woodworking Machine Setters, Operators, and Tenders" (51-7040).

Illustrative examples: Cabinet Builder, Marquetry Worker, Wood Furniture Assembler

51-7021 Furniture Finishers
Shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.

Illustrative examples: Furniture Sander, Piano Refinisher, Wood Cabinet Finisher

51-7031 Model Makers, Wood
Construct full-size and scale wooden precision models of products. Includes wood jig builders and loft workers.

Illustrative example: Architectural Wood Model Maker

51-7032 Patternmakers, Wood
Plan, lay out, and construct wooden unit or sectional patterns used in forming sand molds for castings.

Illustrative example: Wood Die Maker

51-7041 Sawing Machine Setters, Operators, and Tenders, Wood
Set up, operate, or tend wood sawing machines. May operate CNC equipment. Includes lead sawyers.

Illustrative examples: Buzzsaw Operator, Circle Saw Operator, Rip Saw Operator, Trim Saw Operator

51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing
Set up, operate, or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers, and wood nailing machines. May operate CNC equipment.

Illustrative examples: Wood Dowel Machine Operator, Wood Lathe Operator, Wood Planer

51-7099 Woodworkers, All Other
All woodworkers not listed separately.

Illustrative examples: Pole Framer, Wood Carver, Wood Casket Assembler

51-8000 Plant and System Operators

51-8011 Nuclear Power Reactor Operators
Operate or control nuclear reactors. Move control rods, start and stop equipment, monitor and adjust controls, and record data in logs. Implement emergency procedures when needed. May respond to abnormalities, determine cause, and recommend corrective action.

Illustrative examples: Nuclear Control Room Operator, Nuclear Reactor Operator, Nuclear Station Operator

51-8012 Power Distributors and Dispatchers
Coordinate, regulate, or distribute electricity or steam.

Illustrative examples: Steam Plant Control Room Operator, Substation Operator

51-8013 Power Plant Operators
Control, operate, or maintain machinery to generate electric power. Includes auxiliary equipment operators. Excludes “Nuclear Power Reactor Operators" (51-8011).

Illustrative examples: Hydroelectric Plant Operator, Powerhouse Operator

51-8021 Stationary Engineers and Boiler Operators
Operate or maintain stationary engines, boilers, or other mechanical equipment to provide utilities for buildings or industrial processes. Operate equipment, such as steam engines, generators, motors, turbines, and steam boilers.

Illustrative examples: Boiler Engineer; Boiler Room Operator; Heating, Ventilation, and Air Conditioning (HVAC) Mechanic Boiler Operator

51-8031 Water and Wastewater Treatment Plant and System Operators
Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.

Illustrative examples: Liquid Waste Treatment Plant Operator, Sewage Plant Operator

51-8091 Chemical Plant and System Operators
Control or operate entire chemical processes or system of machines.

Illustrative examples: Nitric Acid Plant Operator, Pharmaceutical Manufacturing Machine Operator

51-8092 Gas Plant Operators
Distribute or process gas for utility companies and others by controlling compressors to maintain specified pressures on main pipelines.

Illustrative examples: Gas Controller, Gas Plant Dispatcher

51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers
Operate or control petroleum refining or processing units. May specialize in controlling manifold and pumping systems, gauging or testing oil in storage tanks, or regulating the flow of oil into pipelines.

Illustrative examples: Hydrotreater Operator, Oil Pipeline Operator, Oil Refiner

51-8099 Plant and System Operators, All Other
All plant and system operators not listed separately.

Illustrative examples: Asphalt Plant Operator, Concrete Batch Plant Operator, Lime Filter Operator

51-9000 Other Production Occupations

51-9011 Chemical Equipment Operators and Tenders
Operate or tend equipment to control chemical changes or reactions in the processing of industrial or consumer products. Equipment used includes devulcanizers, steam-jacketed kettles, and reactor vessels. Excludes “Chemical Plant and System Operators" (51-8091).

Illustrative examples: Acid Purification Equipment Operator, Chemical Process Equipment Operator

51-9012 Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders
Set up, operate, or tend continuous flow or vat-type equipment; filter presses; shaker screens; centrifuges; condenser tubes; precipitating, fermenting, or evaporating tanks; scrubbing towers; or batch stills. These machines extract, sort, or separate liquids, gases, or solids from other materials to recover a refined product. Includes dairy processing equipment operators. Excludes “Chemical Equipment Operators and Tenders" (51-9011).

Illustrative examples: Brewmaster, Fermentation Operator, Pasteurizer

51-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders
Set up, operate, or tend machines to crush, grind, or polish materials, such as coal, glass, grain, stone, food, or rubber.

Illustrative examples: Beveling and Edging Machine Operator, Industrial Coffee Grinder, Marble and Granite Polisher, Pulverizer Operator

51-9022 Grinding and Polishing Workers, Hand
Grind, sand, or polish, using hand tools or hand-held power tools, a variety of metal, wood, stone, clay, plastic, or glass objects. Includes chippers, buffers, and finishers.

Illustrative examples: Hand Buffer, Hand Sander, Jewelry Polisher, Knife Grinder

51-9023 Mixing and Blending Machine Setters, Operators, and Tenders
Set up, operate, or tend machines to mix or blend materials, such as chemicals, tobacco, liquids, color pigments, or explosive ingredients. Excludes “Food Batchmakers" (51-3092).

Illustrative examples: Asphalt Blender, Clay Mixer, Ink Blender

51-9031 Cutters and Trimmers, Hand
Use hand tools or hand-held power tools to cut and trim a variety of manufactured items, such as carpet, fabric, stone, glass, or rubber.

Illustrative examples: Fur Trimmer, Hand Cloth Cutter

51-9032 Cutting and Slicing Machine Setters, Operators, and Tenders
Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material. Excludes “Woodworking Machine Setters, Operators, and Tenders" (51-7040), "Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4031), and "Textile Cutting Machine Setters, Operators, and Tenders" (51-6062).

Illustrative examples: Glass Cutting Machine Operator, Insulation Cutter, Rubber Trimmer

51-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders
Set up, operate, or tend machines, such as glass forming machines, plodder machines, and tuber machines, to shape and form products, such as glassware, food, rubber, soap, brick, tile, clay, wax, tobacco, or cosmetics. Excludes “Paper Goods Machine Setters, Operators, and Tenders" (51-9196) and "Shoe Machine Operators and Tenders" (51-6042).

Illustrative examples: Brick Maker, Rubber Extrusion Operator, Sugar Presser

51-9051 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders
Operate or tend heating equipment other than basic metal, plastic, or food processing equipment. Includes activities, such as annealing glass, drying lumber, curing rubber, removing moisture from materials, or boiling soap.

Illustrative examples: Lime Kiln Operator, Lumber Kiln Operator, Rubber Curer

51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers
Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.

Illustrative examples: Machined Parts Quality Inspector, Petroleum Sampler

51-9071 Jewelers and Precious Stone and Metal Workers
Design, fabricate, adjust, repair, or appraise jewelry, gold, silver, other precious metals, or gems. Includes diamond polishers and gem cutters, and persons who perform precision casting and modeling of molds, casting metal in molds, or setting precious and semi-precious stones for jewelry and related products.

Illustrative examples: Diamond Setter, Gemologist, Goldsmith

51-9081 Dental Laboratory Technicians
Construct and repair full or partial dentures or dental appliances. Excludes “Dental Assistants" (31-9091).

Illustrative examples: Crown and Bridge Technician, Dental Ceramist, Orthodontic Technician

51-9082 Medical Appliance Technicians
Construct, fit, maintain, or repair medical supportive devices, such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.

Illustrative examples: Brace Maker, Orthotics Technician, Prosthetics Technician

51-9083 Ophthalmic Laboratory Technicians
Cut, grind, and polish eyeglasses, contact lenses, or other precision optical elements. Assemble and mount lenses into frames or process other optical elements. Includes precision lens polishers or grinders, centerer-edgers, and lens mounters. Excludes “Opticians, Dispensing" (29-2081).

Illustrative examples: Eyeglass Maker, Lens Grinder, Precision Lens Centerer and Edger

51-9111 Packaging and Filling Machine Operators and Tenders
Operate or tend machines to prepare industrial or consumer products for storage or shipment. Includes cannery workers who pack food products.

Illustrative examples: Bottle Capper, Keg Filler, Potato Chip Packaging Machine Operator

51-9121 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders
Set up, operate, or tend machines to coat or paint any of a wide variety of products, including glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials. Excludes “Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic" (51-4193) and "Painters, Transportation Equipment" (51-9122).

Illustrative examples: Electrostatic Paint Operator, Lacquer Spray Booth Operator

51-9122 Painters, Transportation Equipment
Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes. Includes painters in auto body repair facilities.

Illustrative examples: Aircraft Painter, Auto Painter, Railroad Car Painter

51-9123 Painting, Coating, and Decorating Workers
Paint, coat, or decorate articles such as furniture, glass, plateware, pottery, jewelry, toys, books, or leather. Excludes “Artists and Related Workers" (27-1010), "Designers" (27-1020), "Photographic Process Workers and Processing Machine Operators" (51-9151), and "Etchers and Engravers" (51-9194).

Illustrative examples: Ceramic Painter, China Decorator, Sign Painter

51-9141 Semiconductor Processors
Perform any or all of the following functions in the manufacture of electronic semiconductors: load semiconductor material into furnace; saw formed ingots into segments; load individual segment into crystal growing chamber and monitor controls; locate crystal axis in ingot using x-ray equipment and saw ingots into wafers; and clean, polish, and load wafers into series of special purpose furnaces, chemical baths, and equipment used to form circuitry and change conductive properties.

Illustrative examples: Electronic Semiconductor Processor, Semiconductor Assembler, Wafer Fabricator

51-9151 Photographic Process Workers and Processing Machine Operators
Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints.

Illustrative examples: Digital Photo Printer, Photo Lab Specialist, Photo Retoucher

51-9191 Adhesive Bonding Machine Operators and Tenders
Operate or tend bonding machines that use adhesives to join items for further processing or to form a completed product. Processes include joining veneer sheets into plywood; gluing paper; or joining rubber and rubberized fabric parts, plastic, simulated leather, or other materials. Excludes “Shoe Machine Operators and Tenders" (51-6042).

Illustrative examples: Glue Line Operator, Glue Reel Operator, Paper Gluing Operator

51-9192 Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders
Operate or tend machines to wash or clean products, such as barrels or kegs, glass items, tin plate, food, pulp, coal, plastic, or rubber, to remove impurities.

Illustrative examples: Acid Dipper, Degreaser Operator, Immersion Metal Cleaner

51-9193 Cooling and Freezing Equipment Operators and Tenders
Operate or tend equipment, such as cooling and freezing units, refrigerators, batch freezers, and freezing tunnels, to cool or freeze products, food, blood plasma, and chemicals.

Illustrative examples: Chiller Tender, Refrigerating Machine Operator

51-9194 Etchers and Engravers
Engrave or etch metal, wood, rubber, or other materials. Includes such workers as etcher-circuit processors, pantograph engravers, and silk screen etchers. Photoengravers are included in "Prepress Technicians and Workers" (51-5111).

Illustrative examples: Glass Etcher, Metal Engraver

51-9195 Molders, Shapers, and Casters, Except Metal and Plastic
Mold, shape, form, cast, or carve products such as food products, figurines, tile, pipes, and candles consisting of clay, glass, plaster, concrete, stone, or combinations of materials.

Illustrative examples: Cigar Roller, Glass Blower, Neon Tube Bender

51-9196 Paper Goods Machine Setters, Operators, and Tenders
Set up, operate, or tend paper goods machines that perform a variety of functions, such as converting, sawing, corrugating, banding, wrapping, boxing, stitching, forming, or sealing paper or paperboard sheets into products.

Illustrative examples: Box Fabricator, Carton Making Machine Operator, Corrugator Operator

51-9197 Tire Builders
Operate machines to build tires.

Illustrative examples: Auto Tire Recapper, Tire Builder, Tire Molder

51-9198 Helpers—Production Workers
Help production workers by performing duties requiring less skill. Duties include supplying or holding materials or tools, and cleaning work area and equipment. Apprentice workers are classified in the appropriate production occupations (51-0000).

Illustrative examples: Blending Tank Helper, Commercial Baker Helper, Welder Helper

51-9199 Production Workers, All Other
All production workers not listed separately.

53-1000 Supervisors of Transportation and Material Moving Workers

53-1011 Aircraft Cargo Handling Supervisors
Supervise and coordinate the activities of ground crew in the loading, unloading, securing, and staging of aircraft cargo or baggage. May determine the quantity and orientation of cargo and compute aircraft center of gravity. May accompany aircraft as member of flight crew and monitor and handle cargo in flight, and assist and brief passengers on safety and emergency procedures. Includes loadmasters.

Illustrative examples: Air Cargo Ground Crew Supervisor, Air Cargo Ground Operations Supervisor, Airport Ramp Supervisor

53-1021 First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand
Directly supervise and coordinate the activities of helpers, laborers, or material movers.

Illustrative examples: Material Handling Crew Supervisor, Warehouse Supervisor

53-1031 First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators
Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers.

Illustrative examples: Dock Operations Supervisor, Gas Station Supervisor

53-2000 Air Transportation Workers

53-2011 Airline Pilots, Copilots, and Flight Engineers
Pilot and navigate the flight of fixed-wing, multi-engine aircraft, usually on scheduled air carrier routes, for the transport of passengers and cargo. Requires Federal Air Transport Pilot certificate and rating for specific aircraft type used. Includes regional, National, and international airline pilots and flight instructors of airline pilots.

Illustrative examples: Airline Captain, Airline Pilot in Command, Charter Pilot (Air Transport Pilot Certificate Required), Charter Pilot (Airline)

53-2012 Commercial Pilots
Pilot and navigate the flight of fixed-winged aircraft on nonscheduled air carrier routes, or helicopters. Requires Commercial Pilot certificate. Includes charter pilots with similar certification, and air ambulance and air tour pilots. Excludes regional, National, and international airline pilots.

Illustrative examples: Aerial Crop Duster, Charter Pilot (Commercial Pilot Certificate Required), Flight Instructor (Commercial Pilots), Helicopter Pilot

53-2021 Air Traffic Controllers
Control air traffic on and within vicinity of airport and movement of air traffic between altitude sectors and control centers according to established procedures and policies. Authorize, regulate, and control commercial airline flights according to government or company regulations to expedite and ensure flight safety.

Illustrative examples: Air Traffic Control Operator, Control Tower Operator, Enroute Controller

53-2022 Airfield Operations Specialists
Ensure the safe takeoff and landing of commercial and military aircraft. Duties include coordination between air-traffic control and maintenance personnel; dispatching; using airfield landing and navigational aids; implementing airfield safety procedures; monitoring and maintaining flight records; and applying knowledge of weather information.

Illustrative examples: Aviation Operations Specialist, Flight Operations Coordinator

53-2031 Flight Attendants
Provide personal services to ensure the safety, security, and comfort of airline passengers during flight. Greet passengers, verify tickets, explain use of safety equipment, and serve food or beverages.

Illustrative examples: Airline Flight Attendant, Airplane Flight Attendant

53-3000 Motor Vehicle Operators

53-3011 Ambulance Drivers and Attendants, Except Emergency Medical Technicians
Drive ambulance or assist ambulance driver in transporting sick, injured, or convalescent persons. Assist in lifting patients.

Illustrative examples: Emergency Medical Services (EMS) Driver

53-3021 Bus Drivers, Transit and Intercity
Drive bus or motor coach, including regular route operations, charters, and private carriage. May assist passengers with baggage. May collect fares or tickets.

Illustrative examples: Motor Coach Bus Driver, Public Transit Bus Driver

53-3022 Bus Drivers, School or Special Client
Transport students or special clients, such as the elderly or persons with disabilities. Ensure adherence to safety rules. May assist passengers in boarding or exiting.

Illustrative examples: School Bus Operator, Special Education Bus Driver

53-3031 Driver/Sales Workers
Drive truck or other vehicle over established routes or within an established territory and sell or deliver goods, such as food products, including restaurant take-out items, or pick up or deliver items such as commercial laundry. May also take orders, collect payment, or stock merchandise at point of delivery. Includes newspaper delivery drivers. Excludes "Coin, Vending, and Amusement Machine Servicers and Repairers" (49-9091) and "Light Truck or Delivery Services Drivers" (53-3033).

Illustrative examples: Bakery Deliverer, Pizza Delivery Driver, Route Salesperson

53-3032 Heavy and Tractor-Trailer Truck Drivers
Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 pounds Gross Vehicle Weight (GVW). May be required to unload truck. Requires commercial drivers' license.

Illustrative examples: Auto Carrier Driver, Cement Truck Driver, Moving Van Driver

53-3033 Light Truck or Delivery Services Drivers
Drive a light vehicle, such as a truck or van, with a capacity of less than 26,000 pounds Gross Vehicle Weight (GVW), primarily to deliver or pick up merchandise or to deliver packages. May load and unload vehicle. Excludes “Couriers and Messengers" (43-5021) and “Driver/Sales Workers” (53-3031).

Illustrative example: Pharmacy Delivery Driver

53-3041 Taxi Drivers and Chauffeurs
Drive automobiles, vans, or limousines to transport passengers. May occasionally carry cargo. Includes hearse drivers. Excludes “Ambulance Drivers and Attendants, Except Emergency Medical Technicians" (53-3011) and "Bus Drivers" (53-3020).

Illustrative examples: Cab Driver, Courtesy Van Driver, Limousine Driver

53-3099 Motor Vehicle Operators, All Other
All motor vehicle operators not listed separately.

Illustrative examples: Ice-Resurfacing Machine Operator, Motorcycle Deliverer, Street Cleaning Equipment Operator

53-4000 Rail Transportation Workers

53-4011 Locomotive Engineers
Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals, and railroad rules and regulations.

Illustrative examples: Railroad Engineer, Train Engineer

53-4012 Locomotive Firers
Monitor locomotive instruments and watch for dragging equipment, obstacles on rights-of-way, and train signals during run. Watch for and relay traffic signals from yard workers to yard engineer in railroad yard.

Illustrative examples: Diesel Locomotive Firer, Dinkey Engine Firer, Railroad Firer

53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers
Drive switching or other locomotive or dinkey engines within railroad yard, industrial plant, quarry, construction project, or similar location.

Illustrative examples: Coal Tram Driver, Railcar Switcher

53-4021 Railroad Brake, Signal, and Switch Operators
Operate railroad track switches. Couple or uncouple rolling stock to make up or break up trains. Signal engineers by hand or flagging. May inspect couplings, air hoses, journal boxes, and hand brakes.

Illustrative examples: Railway Switch Operator, Switch Coupler

53-4031 Railroad Conductors and Yardmasters
Coordinate activities of switch-engine crew within railroad yard, industrial plant, or similar location. Conductors coordinate activities of train crew on passenger or freight trains. Yardmasters review train schedules and switching orders and coordinate activities of workers engaged in railroad traffic operations, such as the makeup or breakup of trains and yard switching.

Illustrative examples: Freight Conductor, Yard Conductor

53-4041 Subway and Streetcar Operators
Operate subway or elevated suburban trains with no separate locomotive, or electric-powered streetcar, to transport passengers. May handle fares.

Illustrative examples: Light Rail Transit Operator, Tram Operator, Trolley Car Operator

53-4099 Rail Transportation Workers, All Other
All rail transportation workers not listed separately.

Illustrative examples: Railway Equipment Operator, Retarder Operator, Transfer Table Operator

53-5000 Water Transportation Workers

53-5011 Sailors and Marine Oilers
Stand watch to look for obstructions in path of vessel, measure water depth, turn wheel on bridge, or use emergency equipment as directed by captain, mate, or pilot. Break out, rig, overhaul, and store cargo-handling gear, stationary rigging, and running gear. Perform a variety of maintenance tasks to preserve the painted surface of the ship and to maintain line and ship equipment. Must hold government-issued certification and tankerman certification when working aboard liquid-carrying vessels. Includes able seamen and ordinary seamen.

Illustrative examples: Deckhand, Merchant Mariner

53-5021 Captains, Mates, and Pilots of Water Vessels
Command or supervise operations of ships and water vessels, such as tugboats and ferryboats. Required to hold license issued by U.S. Coast Guard. Excludes “Motorboat Operators" (53-5022).

Illustrative examples: Barge Captain, First Mate, Harbor Pilot, Port Captain

53-5022 Motorboat Operators
Operate small motor-driven boats. May assist in navigational activities.

Illustrative examples: Launch Operator, Speedboat Operator, Water Taxi Operator

53-5031 Ship Engineers
Supervise and coordinate activities of crew engaged in operating and maintaining engines, boilers, deck machinery, and electrical, sanitary, and refrigeration equipment aboard ship.

Illustrative examples: Barge Engineer, Ferry Engineer, Tugboat Engineer

53-6000 Other Transportation Workers

53-6011 Bridge and Lock Tenders
Operate and tend bridges, canal locks, and lighthouses to permit marine passage on inland waterways, near shores, and at danger points in waterway passages. May supervise such operations. Includes drawbridge operators, lock operators, and slip bridge operators.

Illustrative examples: Lighthouse Keeper, Lock and Dam Operator

53-6021 Parking Lot Attendants
Park vehicles or issue tickets for customers in a parking lot or garage. May collect fee.

Illustrative examples: Parking Ramp Attendant, Valet Parker

53-6031 Automotive and Watercraft Service Attendants
Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, and accessories. Collect payment for services and supplies. May lubricate vehicle, change motor oil, install antifreeze, or replace lights or other accessories, such as windshield wiper blades or fan belts. May repair or replace tires.

Illustrative examples: Gas and Oil Servicer, Gas Pump Attendant, Service Station Attendant

53-6041 Traffic Technicians
Conduct field studies to determine traffic volume, speed, effectiveness of signals, adequacy of lighting, and other factors influencing traffic conditions, under direction of traffic engineer.

Illustrative examples: Highway Traffic Control Technician, Traffic Signal Technician, Transportation Technician

53-6051 Transportation Inspectors
Inspect equipment or goods in connection with the safe transport of cargo or people. Includes rail transportation inspectors, such as freight inspectors; rail inspectors; and other inspectors of transportation vehicles, not elsewhere classified. Excludes “Transportation Security Screeners” (33-9093).

Illustrative examples: Aircraft Inspector, Motor Vehicle Emissions Inspector, Railroad Car Inspector

53-6061 Transportation Attendants, Except Flight Attendants
Provide services to ensure the safety and comfort of passengers aboard ships, buses, trains, or within the station or terminal. Perform duties such as greeting passengers, explaining the use of safety equipment, serving meals or beverages, or answering questions related to travel. Excludes “Baggage Porters and Bellhops” (39-6011).

Illustrative examples: Ship Steward, Train Attendant

53-6099 Transportation Workers, All Other
All transportation workers not listed separately.

Illustrative examples: Airplane Refueler, Rickshaw Driver

53-7000 Material Moving Workers

53-7011 Conveyor Operators and Tenders
Control or tend conveyors or conveyor systems that move materials or products to and from stockpiles, processing stations, departments, or vehicles. May control speed and routing of materials or products.

Illustrative examples: Conveyor Belt Operator, Grain Elevator Operator

53-7021 Crane and Tower Operators
Operate mechanical boom and cable or tower and cable equipment to lift and move materials, machines, or products in many directions. Excludes “Excavating and Loading Machine and Dragline Operators" (53-7032).

Illustrative examples: Boom Crane Operator, Cherry Picker Operator, Coal Tower Operator

53-7031 Dredge Operators
Operate dredge to remove sand, gravel, or other materials in order to excavate and maintain navigable channels in waterways.

Illustrative example: Dredger

53-7032 Excavating and Loading Machine and Dragline Operators
Operate or tend machinery equipped with scoops, shovels, or buckets, to excavate and load loose materials. Excludes “Dredge Operators" (53-7031).

Illustrative examples: Backhoe Operator, Payloader Operator, Shovel Operator

53-7033 Loading Machine Operators, Underground Mining
Operate underground loading machine to load coal, ore, or rock into shuttle or mine car or onto conveyors. Loading equipment may include power shovels, hoisting engines equipped with cable-drawn scraper or scoop, or machines equipped with gathering arms and conveyor.

Illustrative example: Coke Loader

53-7041 Hoist and Winch Operators
Operate or tend hoists or winches to lift and pull loads using power-operated cable equipment. Excludes “Crane and Tower Operators" (53-7021).

Illustrative example: Winch Derrick Operator

53-7051 Industrial Truck and Tractor Operators
Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location. Excludes “Logging Equipment Operators" (45-4022).

Illustrative examples: Forklift Operator, Stacker Operator

53-7061 Cleaners of Vehicles and Equipment
Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses. Excludes “Janitors and Cleaners, Except Maids and Housekeeping Cleaners" (37-2011).

Illustrative examples: Aircraft Cleaner, Auto Detailer, Car Wash Attendant

53-7062 Laborers and Freight, Stock, and Material Movers, Hand
Manually move freight, stock, or other materials or perform other general labor. Includes all manual laborers not elsewhere classified. Excludes “Material Moving Workers" (53-7011 through 53-7199) who use power equipment. Excludes “Construction Laborers" (47-2061) and "Helpers, Construction Trades" (47-3011 through 47-3019).

Illustrative examples: Cargo Handler, Wharf Laborer

53-7063 Machine Feeders and Offbearers
Feed materials into or remove materials from machines or equipment that is automatic or tended by other workers.

Illustrative examples: Hopper Filler, Spinning Doffer

53-7064 Packers and Packagers, Hand
Pack or package by hand a wide variety of products and materials.

Illustrative examples: Egg Packer, Gift Wrapper, Grocery Store Bagger

53-7071 Gas Compressor and Gas Pumping Station Operators
Operate steam, gas, electric motor, or internal combustion engine driven compressors. Transmit, compress, or recover gases, such as butane, nitrogen, hydrogen, and natural gas.

Illustrative examples: Butane Compressor Operator, Gas Cylinder Processor, Liquid Natural Gas Plant Operator

53-7072 Pump Operators, Except Wellhead Pumpers
Tend, control, or operate power-driven, stationary, or portable pumps and manifold systems to transfer gases, oil, other liquids, slurries, or powdered materials to and from various vessels and processes.

Illustrative examples: Brewery Pumper, Fluid Pump Operator

53-7073 Wellhead Pumpers
Operate power pumps and auxiliary equipment to produce flow of oil or gas from wells in oil field.

Illustrative example: Oil Well Pumper

53-7081 Refuse and Recyclable Material Collectors
Collect and dump refuse or recyclable materials from containers into truck. May drive truck.

Illustrative examples: Garbage Collector, Recyclable Materials Collector, Trash Collector

53-7111 Mine Shuttle Car Operators
Operate diesel or electric-powered shuttle car in underground mine to transport materials from working face to mine cars or conveyor.

Illustrative example: Coal Hauler Operator

53-7121 Tank Car, Truck, and Ship Loaders
Load and unload chemicals and bulk solids, such as coal, sand, and grain into or from tank cars, trucks, or ships using material moving equipment. May perform a variety of other tasks relating to shipment of products. May gauge or sample shipping tanks and test them for leaks.

Illustrative examples: Barge Loader, Rail Car Loader, Ship Unloader

53-7199 Material Moving Workers, All Other
All material moving workers not listed separately.

Illustrative example: Freight Elevator Operator

55-1000 Military Officer Special and Tactical Operations Leaders

55-1011 Air Crew Officers
Perform and direct in-flight duties to ensure the successful completion of combat, reconnaissance, transport, and search and rescue missions. Duties include operating aircraft communications and radar equipment, such as establishing satellite linkages and jamming enemy communications capabilities; operating aircraft weapons and defensive systems; conducting pre-flight, in-flight, and post-flight inspections of onboard equipment; and directing cargo and personnel drops.

Illustrative examples: Air Battle Manager, Airdrop Systems Technician, Special Project Airborne Electronics Evaluator

55-1012 Aircraft Launch and Recovery Officers
Plan and direct the operation and maintenance of catapults, arresting gear, and associated mechanical, hydraulic, and control systems involved primarily in aircraft carrier takeoff and landing operations. Duties include supervision of readiness and safety of arresting gear, launching equipment, barricades, and visual landing aid systems; planning and coordinating the design, development, and testing of launch and recovery systems; preparing specifications for catapult and arresting gear installations; evaluating design proposals; determining handling equipment needed for new aircraft; preparing technical data and instructions for operation of landing aids; and training personnel in carrier takeoff and landing procedures.

Illustrative examples: Catapult and Arresting Gear Officer, Flight Deck Officer, Landing Signal Officer

55-1013 Armored Assault Vehicle Officers
Direct the operation of tanks, light armor, and amphibious assault vehicle units during combat situations on land or in aquatic environments. Duties include directing crew members in the operation of targeting and firing systems; coordinating the operation of advanced onboard communications and navigation equipment; directing the transport of personnel and equipment during combat; formulating and implementing battle plans, including the tactical employment of armored vehicle units; and coordinating with infantry, artillery, and air support units.

Illustrative examples: Assault Amphibious Vehicle (AAV) Officer, Cavalry Officer, Tank Officer

55-1014 Artillery and Missile Officers
Manage personnel and weapons operations to destroy enemy positions, aircraft, and vessels. Duties include planning, targeting, and coordinating the tactical deployment of field artillery and air defense artillery missile systems units; directing the establishment and operation of fire control communications systems;

targeting and launching intercontinental ballistic missiles; directing the storage and handling of nuclear munitions and components; overseeing security of weapons storage and launch facilities; and managing maintenance of weapons systems.

Illustrative examples: Air Defense Artillery Officer, Naval Surface Fire Support Planner, Targeting Acquisition Officer

55-1015 Command and Control Center Officers
Manage the operation of communications, detection, and weapons systems essential for controlling air, ground, and naval operations. Duties include managing critical communication links between air, naval, and ground forces; formulating and implementing emergency plans for natural and wartime disasters; coordinating emergency response teams and agencies; evaluating command center information and need for high-level military and government reporting; managing the operation of surveillance and detection systems; providing technical information and advice on capabilities and operational readiness; and directing operation of weapons targeting, firing, and launch computer systems.

Illustrative examples: Combat Information Center Officer, Command and Control Officer, Command and Control Systems Integrator

55-1016 Infantry Officers
Direct, train, and lead infantry units in ground combat operations. Duties include directing deployment of infantry weapons, vehicles, and equipment; directing location, construction, and camouflage of infantry positions and equipment; managing field communications operations; coordinating with armor, artillery, and air support units; performing strategic and tactical planning, including battle plan development; and leading basic reconnaissance operations.

Illustrative examples: Infantry Officer, Infantry Weapons Officer

55-1017 Special Forces Officers
Lead elite teams that implement unconventional operations by air, land, or sea during combat or peacetime. These activities include offensive raids, demolitions, reconnaissance, search and rescue, and counterterrorism. In addition to their combat training, special forces officers often have specialized training in swimming, diving, parachuting, survival, emergency medicine, and foreign languages. Duties include directing advanced reconnaissance operations and evaluating intelligence information; recruiting, training, and equipping friendly forces; leading raids and invasions on enemy territories; training personnel to implement individual missions and contingency plans; performing strategic and tactical planning for politically sensitive missions; and operating sophisticated communications equipment.

Illustrative examples: Parachute/Combatant Diver Officer, Sea-Air-Land Officer, Special Forces Officer

55-1019 Military Officer Special and Tactical Operations Leaders, All Other
All military officer special and tactical operations leaders not listed separately.

Illustrative examples: Chemical, Biological, Radiological, and Nuclear (CBRN) Officer, Joint Strategic Plans and Policy Officer, Special Technical Operations Officer

55-2000 First-Line Enlisted Military Supervisors

55-2011 First-Line Supervisors of Air Crew Members
Supervise and coordinate the activities of air crew members. Supervisors may also perform the same activities as the workers they supervise.

Illustrative examples: Airborne Mission Systems Superintendent, In-Flight Refueling Manager

55-2012 First-Line Supervisors of Weapons Specialists/Crew Members
Supervise and coordinate the activities of weapons specialists/crew members. Supervisors may also perform the same activities as the workers they supervise.

Illustrative examples: Armor Senior Sergeant, Field Artillery Senior Sergeant, Infantry Unit Leader

55-2013 First-Line Supervisors of All Other Tactical Operations Specialists
Supervise and coordinate the activities of all other tactical operations specialists not classified separately above. Supervisors may also perform the same activities as the workers they supervise.

Illustrative examples: Airfield Management Superintendent, Command Post Superintendent, Intelligence Chief

55-3000 Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members

55-3011 Air Crew Members
Perform in-flight duties to ensure the successful completion of combat, reconnaissance, transport, and search and rescue missions. Duties include operating aircraft communications and detection equipment, including establishing satellite linkages and jamming enemy communications capabilities; conducting pre-flight, in-flight, and post-flight inspections of onboard equipment; operating and maintaining aircraft weapons and defensive systems; operating and maintaining aircraft in-flight refueling systems; executing aircraft safety and emergency procedures; computing and verifying passenger, cargo, fuel, and emergency and special equipment weight and balance data; and conducting cargo and personnel drops.

Illustrative examples: Airborne and Air Delivery Specialist, Aviation Electronic Warfare Operator, In-Flight Refueling Craftsman

55-3012 Aircraft Launch and Recovery Specialists
Operate and maintain catapults, arresting gear, and associated mechanical, hydraulic, and control systems involved primarily in aircraft carrier takeoff and landing operations. Duties include installing and maintaining visual landing aids; testing and maintaining launch and recovery equipment using electric and mechanical test equipment and hand tools; activating airfield arresting systems, such as crash barriers and cables, during emergency landing situations; directing aircraft launch and recovery operations using hand or light signals; and maintaining logs of airplane launches, recoveries, and equipment maintenance.

Illustrative examples: Aircraft Launch and Recovery Equipment Maintenance Technician, C-13 Catapult Operator, Expeditionary Airfield Systems Technician

55-3013 Armored Assault Vehicle Crew Members
Operate tanks, light armor, and amphibious assault vehicles during combat situations on land or in aquatic environments. Duties include driving armored vehicles which require specialized training; operating and maintaining targeting and firing systems; operating and maintaining advanced onboard communications

and navigation equipment; transporting personnel and equipment in a combat environment; and operating and maintaining auxiliary weapons, including machine guns and grenade launchers.

Illustrative examples: Assault Boat Coxswain, BRADLEY LINEBACKER Crewmember, M1A1 Tank Crewman

55-3014 Artillery and Missile Crew Members
Target, fire, and maintain weapons used to destroy enemy positions, aircraft, and vessels. Field artillery crew members predominantly use guns, cannons, and howitzers in ground combat operations, while air defense artillery crew members predominantly use missiles and rockets. Naval artillery crew members predominantly use torpedoes and missiles launched from a ship or submarine. Duties include testing, inspecting, and storing ammunition, missiles, and torpedoes; conducting preventive and routine maintenance on weapons and related equipment; establishing and maintaining radio and wire communications; and operating weapons targeting, firing, and launch computer systems.

Illustrative examples: Air and Missile Defense (AMD) Crewmember, Field Artillery Fire Control Man, Gunner's Mate

55-3015 Command and Control Center Specialists
Operate and monitor communications, detection, and weapons systems essential for controlling air, ground, and naval operations. Duties include maintaining and relaying critical communications between air, naval, and ground forces; implementing emergency plans for natural and wartime disasters; relaying command center information to high-level military and government decision makers; monitoring surveillance and detection systems, such as air defense; interpreting and evaluating tactical situations and making recommendations to superiors; and operating weapons targeting, firing, and launch computer systems.

Illustrative examples: Air Defense Command, Control, Communications, Computers and Intelligence Tactical Operations Center Enhanced Operator/Maintainer; C2 Tactical Analysis Technician; Command Post Craftsman

55-3016 Infantry
Operate weapons and equipment in ground combat operations. Duties include operating and maintaining weapons, such as rifles, machine guns, mortars, and hand grenades; locating, constructing, and camouflaging infantry positions and equipment; evaluating terrain and recording topographical information; operating and maintaining field communications equipment; assessing need for and directing supporting fire; placing explosives and performing minesweeping activities on land; and participating in basic reconnaissance operations.

Illustrative examples: Infantryman, Machine Gunner, Mortarman

55-3017 Radar and Sonar Technicians
Operate equipment using radio or sound wave technology to identify, track, and analyze objects or natural phenomena of military interest. Includes airborne, shipboard, and terrestrial positions. May perform minor maintenance.

Illustrative examples: Field Artillery Radar Operator, Sonar Subsystem Equipment Operator, Space Systems Operations Craftsman

55-3018 Special Forces

Implement unconventional operations by air, land, or sea during combat or peacetime as members of elite teams. These activities include offensive raids, demolitions, reconnaissance, search and rescue, and counterterrorism. In addition to their combat training, special forces members often have specialized training in swimming, diving, parachuting, survival, emergency medicine, and foreign languages. Duties include conducting advanced reconnaissance operations and collecting intelligence information; recruiting, training, and equipping friendly forces; conducting raids and invasions on enemy territories; laying and detonating explosives for demolition targets; locating, identifying, defusing, and disposing of ordnance; and operating and maintaining sophisticated communications equipment.

Illustrative examples: Combatant Swimmer (SEAL), Pararescue Craftsman, Special Forces Weapons Sergeant

55-3019 Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members, All Other

All military enlisted tactical operations and air/weapons specialists and crew members not listed separately.

Illustrative examples: Electronic Warfare Specialist, Landing Support Specialist, Psychological Operations Specialist