EMPLOYMENT PROJECTIONS BY INDUSTRY AND OCCUPATION 2010-2020 Region 15 (Clackamas County)

For questions regarding industry projections, contact Charlie Johnson at Charlie.B.Johnson@state.or.us, (503) 947-1268

For questions regarding occupational projections, contact Brenda Turner at Brenda.P.Turner@state.or.us, (503) 947-1233

Oregon Employment Department
Workforce and Economic Research
875 Union St. NE
Salem, OR 97311
www.WorkingInOregon.org
www.QualityInfo.org

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Region 15: Industry Employment Forecast, 2010-2020
Clackamas County

	2010	2020	Change	% Change
Total payroll employment	139,140	168,270	29,130	21%
Total private	122,110	150,060	27,950	23%
Natural resources and mining	4,360	5,700	1,340	31%
Mining and logging	160	190	30	19%
Construction	8,480	11,330	2,850	34%
Construction of buildings	1,670	2,050	380	23%
Heavy and civil engineering construction	840	980	140	17%
Specialty trade contractors	5,960	8,300	2,340	39%
Manufacturing	15,610	17,960	2,350	15%
Durable goods	12,560	14,760	2,200	18%
Primary metal manufacturing	2,030	2,490	460	23%
Computer and electronic product manufacturing	3,140	3,590	450	14%
Nondurable goods	3,050	3,210	160	5%
Trade, transportation, and utilities	31,180	36,600	5,420	17%
Wholesale trade	10,360	12,140	1,780	17%
Retail trade	16,360	18,930	2,570	16%
Food and beverage stores	3,560	4,240	680	19%
General merchandise stores	3,500	4,060	560	16%
Transportation, warehousing, and utilities	4,460	5,520	1,060	24%
Information	2,110	2,430	320	15%
Financial activities	8,430	9,750	1,320	16%
Finance and insurance	4,750	5,720	970	20%
Real estate and rental and leasing	3,690	4,030	340	9%
Professional and business services	15,210	19,970	4,760	31%
Professional and technical services	7,000	9,050	2,050	29%
Architectural and engineering services	1,100	1,380	280	25%
Computer systems design and related services	1,910	2,200	290	15%
Management of companies and enterprises	1,650	1,820	170	10%
Administrative and waste services	6,560	9,100	2,540	39%
Educational and health services	18,980	24,960	5,980	32%
Educational services	2,260	3,050	790	35%
Health care and social assistance	16,720	21,920	5,200	31%
Ambulatory health care services	6,440	8,500	2,060	32%
Hospitals	4,330	5,460	1,130	26%
Nursing and residential care facilities	4,150	5,780	1,630	39%
Social assistance	1,810	2,180	370	20%
Leisure and hospitality	12,800	15,580	2,780	22%
Arts, entertainment, and recreation	1,960	2,350	390	20%
Accommodation and food services	10,840	13,230	2,390	22%
Accommodation	980	1,130	150	15%
Food services and drinking places	9,850	12,100	2,250	23%
Other services	4,970	5,790	820	16%
Government	17,030	18,210	1,180	7%
Federal government	1,330	1,210	-120	-9%
State government	2,370	2,480	110	5%
Local government	13,330	14,520	1,190	9%

Note: Industry and occupational employment totals are not equal due to rounding.
Note: Farm employment is included in natural resources and mining.

Occupational Employment Projections, 2010-2020

Region 15 (Clackamas County)

Standard Occupational Classification Code and Title		Employment** 2010	2020	Change	Percent Change	2010-2020 Openings Due to Growth†	Due to Replacement	Total	Minimum Education	Competitive Education
	Total All Occupations	139,048	168,161	29,113	20.9%	29,221	36,803	66,024		
	Management, Business, and Financial	12,023	14,611	2,588	21.5%	2,591	2,804	5,395		
11-0000	Management Occupations	6,493	7,806	1,313	20.2%	1,316	1,527	2,843		
11-1000	Top Executives	1,956	2,380	424	21.7%	424	414	838		
11-1011	Chief Executives	132	154	22	16.7%	22	37	59	Bachelor's	Master's
11-1021	General and Operations Managers	1,821	2,222	401	22.0%	401	376	777	Bachelor's	Bachelor's + Work Exp.
11-1031	Legislators	3	4	1	33.3%	1	1	2	Bachelor's	Bachelor's + Work Exp.
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	791	951	160	20.2%	160	253	413		
11-2011	Advertising and Promotions Managers	46	56	10	21.7%	10	15	25	Bachelor's	Bachelor's + Work Exp.
11-2021	Marketing Managers	314	381	67	21.3%	67	101	168	Bachelor's	Bachelor's + Work Exp.
11-2022	Sales Managers	349	417	68	19.5%	68	111	179	Bachelor's	Bachelor's + Work Exp.
11-2031	Public Relations Managers	82	97	15	18.3%	15	26	41	Bachelor's	Bachelor's + Work Exp.
11-3000	Operations Specialties Managers	1,365	1,617	252	18.5%	252	318	570		
11-3011	Administrative Services Managers	185	223	38	20.5%	38	50	88	Bachelor's	Bachelor's + Work Exp.
11-3021	Computer and Information Systems Managers	262	314	52	19.8%	52	44	96	Bachelor's	Bachelor's + Work Exp.
11-3031	Financial Managers	393	466	73	18.6%	73	79	152	Bachelor's	Bachelor's + Work Exp.
11-3041	Compensation and Benefits Managers	14	17	3	21.4%	3	4	7	Bachelor's	Bachelor's + Work Exp.
11-3042	Training and Development Managers	18	23	5	27.8%	5	5	10	Bachelor's	Bachelor's + Work Exp.
11-3049	Human Resources Managers, All Other	78	94	16	20.5%	16	21	37	Bachelor's	Bachelor's + Work Exp.
11-3051	Industrial Production Managers	168	193	25	14.9%	25	42	67	Bachelor's	Bachelor's + Work Exp.
11-3061	Purchasing Managers	123	144	21	17.1%	21	41	62	Bachelor's	Bachelor's + Work Exp.
11-3071	Transportation, Storage, and Distribution Managers	124	143	19	15.3%	19	32	51	Bachelor's	Bachelor's + Work Exp.
11-9000	Other Management Occupations	2,381	2,858	477	20.0%	480	542	1,022		
11-9011	Farm, Ranch, and Other Agricultural Managers*	125	167	42	33.6%	42	28	70	Work Exp.	Bachelor's + Work Exp.
11-9021	Construction Managers*	311	403	92	29.6%	92	23	115	Work Exp.	Bachelor's + Work Exp.
11-9031	Preschool and Child Care Administrators	86	99	13	15.1%	13	26	39	Assoc.	Bachelor's
11-9032	Elementary and Secondary School Administrators	194	216	22	11.3%	22	58	80	Bachelor's	Master's
11-9033	Postsecondary School Administrators	34	41	7	20.6%	7	11	18	Master's	PhD
11-9039	Education Administrators, All Other	12	18	6	50.0%	6	4	10	Master's	PhD
11-9041	Engineering Managers	218	253	35	16.1%	35	46	81	Bachelor's	Bachelor's + Work Exp.
11-9051	Food Service Managers*	210	258	48	22.9%	48	43	91	Work Exp.	Assoc.
11-9061	Funeral Directors	18	21	3	16.7%	3	4	7	Assoc.	Assoc. + Work Exp.
11-9081	Lodging Managers*	23	28	5	21.7%	5	7	12	Work Exp.	Assoc.
11-9111	Medical and Health Services Managers	221	282	61	27.6%	61	61	122	Bachelor's	Master's
11-9121	Natural Sciences Managers	32	37	5	15.6%	5	21	26	Bachelor's	Master's
11-9131	Postmasters and Mail Superintendents	17	14	-3	-17.6%	0	3	3	Work Exp.	Bachelor's
11-9141	Property, Real Estate, and Community Association Managers*	301	336	35	11.6%	35	67	102	Work Exp.	Post-sec.
11-9151	Social and Community Service Managers	135	159	24	17.8%	24	32	56	Bachelor's	Bachelor's + Work Exp.
11-9199	Managers, All Other*	444	526	82	18.5%	82	108	190	Bachelor's	Bachelor's + Work Exp.
13-0000	Business and Financial Operations Occupations	5,530	6,805	1,275	23.1%	1,275	1,277	2,552		
13-1000	Business Operations Specialists	3,287	3,962	675	20.5%	675	710	1,385		
13-1011	Agents and Business Managers of Artists, Performers, and Athletes*	13	14	1	7.7%	1	3	4	Bachelor's	Bachelor's + Work Exp.
13-1021	Purchasing Agents and Buyers, Farm Products	38	50	12	31.6%	12	8	20	Bachelor's	Bachelor's + Work Exp.

Occupational Employment Projections, 2010-2020

Region 15 (Clackamas County)

Standard Occupational Classification Code and Title		Employment** 2010	2020	Change	Percent Change	2010-2020 Openings Due to Growth†	Due to Replacement	Total	Minimum Education	Competitive Education
13-1022	Wholesale and Retail Buyers, Except Farm Products	192	220	28	14.6%	28	52	80	Bachelor's	Bachelor's + Work Exp.
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	310	367	57	18.4%	57	91	148	Bachelor's	Bachelor's + Work Exp.
13-1031	Claims Investigators, Examiners, and Adjusters	239	272	33	13.8%	33	65	98	Long OJT	Bachelor's
13-1032	Insurance Appraisers, Vehicle Damage	12	14	2	16.7%	2	3	5	Long OJT	Bachelor's
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	157	166	9	5.7%	9	20	29	Long OJT	Work Exp.
13-1051	Cost Estimators	360	475	115	31.9%	115	80	195	Moderate OJT	Bachelor's
13-1061	Emergency Management Specialists	11	12	1	9.1%	1	2	3	Work Exp.	Bachelor's
13-1071	Employment, Recruitment, and Placement Specialists	262	343	81	30.9%	81	51	132	Bachelor's	Bachelor's + Work Exp.
13-1072	Compensation, Benefits, and Job Analysis Specialists	66	82	16	24.2%	16	12	28	Bachelor's	Bachelor's + Work Exp.
13-1073	Training and Development Specialists	173	215	42	24.3%	42	33	75	Bachelor's	Bachelor's + Work Exp.
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	236	291	55	23.3%	55	44	99	Bachelor's	Bachelor's + Work Exp.
13-1081	Logisticians	87	99	12	13.8%	12	18	30	Bachelor's	Bachelor's + Work Exp.
13-1111	Management Analysts*	268	323	55	20.5%	55	48	103	Bachelor's	Master's
13-1121	Meeting and Convention Planners	45	54	9	20.0%	9	9	18	Work Exp.	Bachelor's
13-1199	Business Operations Specialists, All Other	818	965	147	18.0%	147	171	318	Bachelor's	Bachelor's + Work Exp.
13-2000	Financial Specialists	2,243	2,843	600	26.7%	600	567	1,167		
13-2011	Accountants and Auditors*	1,069	1,383	314	29.4%	314	263	577	Bachelor's	Bachelor's + Work Exp.
13-2021	Appraisers and Assessors of Real Estate*	74	80	6	8.1%	6	16	22	Post-sec.	Bachelor's
13-2031	Budget Analysts	13	13	0	0.0%	0	3	3	Bachelor's	Bachelor's + Work Exp.
13-2041	Credit Analysts	83	101	18	21.7%	18	19	37	Bachelor's	Bachelor's + Work Exp.
13-2051	Financial Analysts	160	211	51	31.9%	51	39	90	Bachelor's	Master's
13-2052	Personal Financial Advisors*	64	85	21	32.8%	21	9	30	Bachelor's	Bachelor's + Work Exp.
13-2053	Insurance Underwriters	64	73	9	14.1%	9	22	31	Bachelor's	Bachelor's + Work Exp.
13-2061	Financial Examiners	5	5	0	0.0%	0	1	1	Bachelor's	Bachelor's + Work Exp.
13-2071	Loan Counselors	21	27	6	28.6%	6	6	12	Bachelor's	Bachelor's + Work Exp.
13-2072	Loan Officers	457	557	100	21.9%	100	130	230	Bachelor's	Bachelor's + Work Exp.
13-2081	Tax Examiners, Collectors, and Revenue Agents	3	3	0	0.0%	0	1	1	Bachelor's	Bachelor's + Work Exp.
13-2082	Tax Preparers*	121	176	55	45.5%	55	33	88	Post-sec.	Post-sec. + Work Exp.
13-2099	Financial Specialists, All Other	109	129	20	18.3%	20	25	45	Bachelor's	Bachelor's + Work Exp.
	Professional and Related	18,656	21,608	2,952	15.8%	2,964	4,529	7,493		
15-0000	Computer and Mathematical Science Occupations	2,651	3,191	540	20.4%	540	510	1,050		
15-1000	Computer Specialists	2,620	3,148	528	20.2%	528	493	1,021		
15-1011	Computer and Information Scientists, Research	4	5	1	25.0%	1	1	2	Master's	Master's + Work Exp.
15-1021	Computer Programmers*	180	227	47	26.1%	47	47	94	Bachelor's	Bachelor's + Work Exp.
15-1031	Computer Software Engineers, Applications	678	839	161	23.7%	161	79	240	Bachelor's	Bachelor's + Work Exp.
15-1032	Computer Software Engineers, Systems Software	201	240	39	19.4%	39	23	62	Bachelor's	Bachelor's + Work Exp.
15-1041	Computer Support Specialists	480	558	78	16.3%	78	136	214	Post-sec.	Bachelor's
15-1051	Computer Systems Analysts	251	322	71	28.3%	71	54	125	Bachelor's	Bachelor's + Work Exp.
15-1061	Database Administrators	52	67	15	28.8%	15	10	25	Bachelor's	Master's
15-1071	Network and Computer Systems Administrators	237	268	31	13.1%	31	43	74	Bachelor's	Bachelor's + Work Exp.
15-1081	Network Systems and Data Communications Analysts*	217	253	36	16.6%	36	35	71	Bachelor's	Bachelor's + Work Exp.
15-1099	Computer Specialists, All Other	320	369	49	15.3%	49	65	114	Post-sec.	Bachelor's
15-2000	Mathematical Science Occupations	31	43	12	38.7%	12	17	29		

Occupational Employment Projections, 2010-2020

Region 15 (Clackamas County)

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15-2011	Actuaries	6	8	2	33.3%	2	4	6	Bachelor's	Master's
15-2031	Operations Research Analysts	17	20	3	17.6%	3	6	9	Bachelor's	Master's
15-2041	Statisticians	8	14	6	75.0%	6	7	13	Bachelor's	Master's
15-2091	Mathematical Technicians	0	1	1	NA	1	0	1	Assoc.	Bachelor's
17-0000	Architecture and Engineering Occupations	2,784	3,339	555	19.9%	555	689	1,244		
17-1000	Architects, Surveyors, and Cartographers	109	135	26	23.9%	26	26	52		
17-1011	Architects, Except Landscape and Naval*	27	34	7	25.9%	7	6	13	Bachelor's	Master's
17-1012	Landscape Architects*	23	29	6	26.1%	6	5	11	Bachelor's	Master's
17-1021	Cartographers and Photogrammetrists	15	19	4	26.7%	4	4	8	Bachelor's	Bachelor's + Work Exp.
17-1022	Surveyors	44	53	9	20.5%	9	11	20	Bachelor's	Bachelor's + Work Exp.
17-2000	Engineers	1,532	1,841	309	20.2%	309	422	731		
17-2031	Biomedical Engineers	10	12	2	20.0%	2	2	4	Bachelor's	Master's
17-2041	Chemical Engineers	53	59	6	11.3%	6	18	24	Bachelor's	Master's
17-2051	Civil Engineers	219	263	44	20.1%	44	49	93	Bachelor's	Master's
17-2061	Computer Hardware Engineers	36	42	6	16.7%	6	9	15	Bachelor's	Master's
17-2071	Electrical Engineers	205	247	42	20.5%	42	54	96	Bachelor's	Master's
17-2072	Electronics Engineers, Except Computer	223	278	55	24.7%	55	60	115	Bachelor's	Master's
17-2081	Environmental Engineers	28	35	7	25.0%	7	7	14	Bachelor's	Master's
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	10	10	0	0.0%	0	2	2	Bachelor's	Master's
17-2112	Industrial Engineers	199	229	30	15.1%	30	47	77	Bachelor's	Master's
17-2131	Materials Engineers	45	55	10	22.2%	10	14	24	Bachelor's	Master's
17-2141	Mechanical Engineers	329	397	68	20.7%	68	117	185	Bachelor's	Master's
17-2199	Engineers, All Other	175	214	39	22.3%	39	43	82	Bachelor's	Master's
17-3000	Drafters, Engineering, and Mapping Technicians	1,143	1,363	220	19.2%	220	241	461		
17-3011	Architectural and Civil Drafters	120	150	30	25.0%	30	26	56	Post-sec.	Post-sec. + Work Exp.
17-3012	Electrical and Electronics Drafters	50	64	14	28.0%	14	11	25	Post-sec.	Post-sec. + Work Exp.
17-3013	Mechanical Drafters	84	101	17	20.2%	17	18	35	Post-sec.	Post-sec. + Work Exp.
17-3019	Drafters, All Other	32	42	10	31.3%	10	7	17	Post-sec.	Post-sec. + Work Exp.
17-3022	Civil Engineering Technicians	68	78	10	14.7%	10	14	24	Assoc.	Assoc. + Work Exp.
17-3023	Electrical and Electronic Engineering Technicians	116	135	19	16.4%	19	24	43	Assoc.	Assoc. + Work Exp.
17-3024	Electro-Mechanical Technicians	22	27	5	22.7%	5	5	10	Assoc.	Assoc. + Work Exp.
17-3025	Environmental Engineering Technicians	10	12	2	20.0%	2	2	4	Assoc.	Assoc. + Work Exp.
17-3026	Industrial Engineering Technicians	222	256	34	15.3%	34	46	80	Assoc.	Assoc. + Work Exp.
17-3027	Mechanical Engineering Technicians	52	64	12	23.1%	12	11	23	Assoc.	Assoc. + Work Exp.
17-3029	Engineering Technicians, All Other	266	316	50	18.8%	50	56	106	Assoc.	Assoc. + Work Exp.
17-3031	Surveying and Mapping Technicians	101	118	17	16.8%	17	21	38	Moderate OJT	Post-sec.
19-0000	Life, Physical, and Social Science Occupations	1,091	1,292	201	18.4%	206	365	571		
19-1000	Life Scientists	230	274	44	19.1%	45	65	110		
19-1011	Animal Scientists	13	17	4	30.8%	4	6	10	Bachelor's	Master's
19-1012	Food Scientists and Technologists	6	6	0	0.0%	0	2	2	Bachelor's	Master's
19-1013	Soil and Plant Scientists	58	75	17	29.3%	17	27	44	Bachelor's	Master's
19-1022	Microbiologists	1	1	0	0.0%	0	0	0	Bachelor's	Master's
19-1023	Zoologists and Wildlife Biologists	83	96	13	15.7%	13	20	33	Bachelor's	Master's
19-1029	Biological Scientists, All Other	27	29	2	7.4%	2	6	8	Bachelor's	Master's
19-1031	Conservation Scientists	10	9	-1	-10.0%	0	1	1	Bachelor's	Master's

Occupational Employment Projections, 2010-2020

Region 15 (Clackamas County)

Standard Occupational Classification Code and Title		Employment** 2010	2020	Change	Percent Change	2010-2020 Openings Due to Growth†	Due to Replacement	Total	Minimum Education	Competitive Education
19-1032	Foresters	17	21	4	23.5%	4	2	6	Bachelor's	Master's
19-1042	Medical Scientists, Except Epidemiologists	9	12	3	33.3%	3	1	4	PhD	PhD + Work Exp.
19-1099	Life Scientists, All Other	6	8	2	33.3%	2	0	2	Bachelor's	Master's
19-2000	Physical Scientists	90	111	21	23.3%	21	30	51		
19-2021	Atmospheric and Space Scientists	1	1	0	0.0%	0	0	0	Bachelor's	Master's
19-2031	Chemists	25	31	6	24.0%	6	9	15	Bachelor's	Master's
19-2041	Environmental Scientists and Specialists, Including Health	26	33	7	26.9%	7	9	16	Bachelor's	Master's
19-2042	Geoscientists, Except Hydrologists and Geographers	16	20	4	25.0%	4	5	9	Bachelor's	Master's
19-2043	Hydrologists	16	20	4	25.0%	4	5	9	Bachelor's	Master's
19-2099	Physical Scientists, All Other	6	6	0	0.0%	0	2	2	Bachelor's	Master's
19-3000	Social Scientists and Related Workers	456	554	98	21.5%	98	144	242		
19-3011	Economists	10	15	5	50.0%	5	4	9	Bachelor's	Master's
19-3021	Market Research Analysts*	190	229	39	20.5%	39	56	95	Bachelor's	Master's
19-3022	Survey Researchers*	3	7	4	133.3%	4	1	5	Bachelor's	Master's
19-3031	Clinical, Counseling, and School Psychologists*	133	167	34	25.6%	34	47	81	Master's	PhD
19-3039	Psychologists, All Other*	6	7	1	16.7%	1	2	3	Master's	PhD
19-3041	Sociologists	1	1	0	0.0%	0	0	0	Master's	PhD
19-3051	Urban and Regional Planners	90	102	12	13.3%	12	24	36	Bachelor's	Master's
19-3091	Anthropologists and Archeologists	8	9	1	12.5%	1	4	5	Bachelor's	Master's
19-3092	Geographers	1	1	0	0.0%	0	0	0	Bachelor's	Master's
19-3099	Social Scientists and Related Workers, All Other	14	16	2	14.3%	2	6	8	Bachelor's	Master's
19-4000	Life, Physical, and Social Science Technicians	315	353	38	12.1%	42	126	168		
19-4011	Agricultural and Food Science Technicians	33	45	12	36.4%	12	13	25	Assoc.	Assoc. + Work Exp.
19-4021	Biological Technicians	84	94	10	11.9%	10	30	40	Assoc.	Bachelor's
19-4031	Chemical Technicians	14	16	2	14.3%	2	2	4	Assoc.	Bachelor's
19-4041	Geological and Petroleum Technicians	1	2	1	100.0%	1	1	2	Assoc.	Assoc. + Work Exp.
19-4061	Social Science Research Assistants	16	21	5	31.3%	5	8	13	Post-sec.	Bachelor's
19-4091	Environmental Science and Protection Technicians, Including Health	17	22	5	29.4%	5	8	13	Assoc.	Bachelor's
19-4092	Forensic Science Technicians	12	14	2	16.7%	2	5	7	Bachelor's	Master's
19-4093	Forest and Conservation Technicians	98	94	-4	-4.1%	0	41	41	Long OJT	Bachelor's
19-4099	Life, Physical, and Social Science Technicians, All Other	40	45	5	12.5%	5	18	23	Assoc.	Bachelor's
21-0000	Community and Social Service Occupations	2,155	2,451	296	13.7%	296	482	778		
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	1,540	1,760	220	14.3%	220	368	588		
21-1011	Substance Abuse and Behavioral Disorder Counselors	24	30	6	25.0%	6	6	12	Bachelor's	Master's
21-1012	Educational, Vocational, and School Counselors	175	194	19	10.9%	19	40	59	Master's	Master's + Work Exp.
21-1013	Marriage and Family Therapists	17	21	4	23.5%	4	4	8	Master's	Master's + Work Exp.
21-1014	Mental Health Counselors	156	196	40	25.6%	40	38	78	Master's	Master's + Work Exp.
21-1015	Rehabilitation Counselors	122	139	17	13.9%	17	28	45	Master's	Master's + Work Exp.
21-1019	Counselors, All Other	81	94	13	16.0%	13	19	32	Master's	Master's + Work Exp.
21-1021	Child, Family, and School Social Workers	169	183	14	8.3%	14	42	56	Bachelor's	Master's
21-1022	Medical and Public Health Social Workers	77	93	16	20.8%	16	20	36	Bachelor's	Master's
21-1023	Mental Health and Substance Abuse Social Workers	76	100	24	31.6%	24	21	45	Master's	Master's + Work Exp.
21-1029	Social Workers, All Other	173	185	12	6.9%	12	42	54	Bachelor's	Master's
21-1091	Health Educators	34	42	8	23.5%	8	8	16	Bachelor's	Master's

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21-1092	Probation Officers and Correctional Treatment Specialists	88	97	9	10.2%	9	20	29	Bachelor's	Bachelor's + Work Exp.
21-1093	Social and Human Service Assistants	320	352	32	10.0%	32	73	105	Moderate OJT	Assoc.
21-1099	Community and Social Service Specialists, All Other	28	34	6	21.4%	6	7	13	Moderate OJT	Assoc.
21-2000	Religious Workers	615	691	76	12.4%	76	114	190		
21-2011	Clergy	407	460	53	13.0%	53	74	127	Bachelor's	1st Prof.
21-2021	Directors, Religious Activities and Education	169	189	20	11.8%	20	33	53	Bachelor's	Bachelor's + Work Exp.
21-2099	Religious Workers, All Other	39	42	3	7.7%	3	7	10	Bachelor's	Bachelor's + Work Exp.
23-0000	Legal Occupations	575	668	93	16.2%	97	109	206		
23-1000	Lawyers, Judges, and Related Workers	369	424	55	14.9%	58	75	133		
23-1011	Lawyers*	285	339	54	18.9%	54	59	113	1st Prof.	1st Prof. + Work Exp.
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	60	57	-3	-5.0%	0	11	11	1st Prof.	1st Prof. + Work Exp.
23-1022	Arbitrators, Mediators, and Conciliators	12	15	3	25.0%	3	3	6	Bachelor's	1st Prof.
23-1023	Judges and Magistrates	12	13	1	8.3%	1	2	3	1st Prof.	1st Prof. + Work Exp.
23-2000	Legal Support Workers	206	244	38	18.4%	39	34	73		
23-2011	Paralegals and Legal Assistants	92	113	21	22.8%	21	15	36	Assoc.	Bachelor's
23-2091	Court Reporters	6	5	-1	-16.7%	0	1	1	Post-sec.	Post-sec. + Work Exp.
23-2092	Law Clerks	6	7	1	16.7%	1	1	2	Bachelor's	1st Prof.
23-2093	Title Examiners, Abstractors, and Searchers	80	94	14	17.5%	14	13	27	Moderate OJT	Post-sec.
23-2099	Legal Support Workers, All Other	22	25	3	13.6%	3	4	7	Post-sec.	Assoc.
25-0000	Education, Training, and Library Occupations	7,786	8,743	957	12.3%	957	1,891	2,848		
25-1000	Postsecondary Teachers	702	809	107	15.2%	107	121	228		
25-1191	Graduate Teaching Assistants	5	6	1	20.0%	1	1	2	Bachelor's	Master's
25-1199	Postsecondary Teachers, Except Graduate Teaching Assistants	697	803	106	15.2%	106	120	226	Master's	PhD
25-2000	Primary, Secondary, and Special Education Teachers	4,122	4,575	453	11.0%	453	1,070	1,523		
25-2011	Preschool Teachers, Except Special Education	458	537	79	17.2%	79	129	208	Assoc.	Bachelor's
25-2012	Kindergarten Teachers, Except Special Education	184	208	24	13.0%	24	51	75	Bachelor's	Master's
25-2021	Elementary School Teachers, Except Special Education	1,462	1,613	151	10.3%	151	338	489	Bachelor's	Master's
25-2022	Middle School Teachers, Except Special and Vocational Education	592	656	64	10.8%	64	137	201	Bachelor's	Master's
25-2023	Vocational Education Teachers, Middle School	3	3	0	0.0%	0	1	1	Bachelor's	Master's
25-2031	Secondary School Teachers, Except Special and Vocational Education	1,036	1,140	104	10.0%	104	297	401	Bachelor's	Master's
25-2032	Vocational Education Teachers, Secondary School	57	61	4	7.0%	4	16	20	Bachelor's	Master's
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	175	190	15	8.6%	15	54	69	Bachelor's	Master's
25-2042	Special Education Teachers, Middle School	47	51	4	8.5%	4	14	18	Bachelor's	Master's
25-2043	Special Education Teachers, Secondary School	108	116	8	7.4%	8	33	41	Bachelor's	Master's
25-3000	Other Teachers and Instructors	741	869	128	17.3%	128	124	252		
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors*	90	100	10	11.1%	10	15	25	Bachelor's	Master's
25-3021	Self-Enrichment Education Teachers*	113	158	45	39.8%	45	21	66	Work Exp.	Post-sec.
25-3099	Teachers and Instructors, All Other*	538	611	73	13.6%	73	88	161	Bachelor's	Master's
25-4000	Librarians, Curators, and Archivists	340	377	37	10.9%	37	127	164		
25-4011	Archivists	2	2	0	0.0%	0	1	1	Master's	Master's + Work Exp.

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25-4012	Curators	2	2	0	0.0%	0	1	1	Master's	Master's + Work Exp.
25-4013	Museum Technicians and Conservators	0	1	1	NA	1	0	1	Bachelor's	Master's
25-4021	Librarians	150	167	17	11.3%	17	41	58	Master's	Master's + Work Exp.
25-4031	Library Technicians	186	205	19	10.2%	19	84	103	Moderate OJT	Assoc.
25-9000	Other Education, Training, and Library Occupations	1,881	2,113	232	12.3%	232	449	681		
25-9011	Audio-Visual Specialists, Education-related	5	5	0	0.0%	0	1	1	Moderate OJT	Assoc.
25-9021	Farm and Home Management Advisors	3	4	1	33.3%	1	1	2	Bachelor's	Bachelor's + Work Exp.
25-9031	Instructional Coordinators	199	263	64	32.2%	64	51	115	Bachelor's	Master's
25-9041	Teacher Assistants	1,559	1,709	150	9.6%	150	369	519	Work Exp.	Assoc.
25-9099	Education, Training, and Library, All Other	115	132	17	14.8%	17	27	44	Bachelor's	Bachelor's + Work Exp.
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	1,614	1,924	310	19.2%	313	483	796		
27-1000	Art and Design Workers	609	733	124	20.4%	124	205	329		
27-1011	Art Directors*	10	11	1	10.0%	1	3	4	Bachelor's	Bachelor's + Work Exp.
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators*	15	18	3	20.0%	3	4	7	Long OJT	Bachelor's
27-1014	Multi-Media Artists and Animators*	19	22	3	15.8%	3	5	8	Bachelor's	Bachelor's + Work Exp.
27-1019	Artists and Related Workers, All Other*	10	11	1	10.0%	1	3	4	Long OJT	Bachelor's
27-1021	Commercial and Industrial Designers*	15	18	3	20.0%	3	5	8	Bachelor's	Bachelor's + Work Exp.
27-1023	Floral Designers*	62	72	10	16.1%	10	21	31	Moderate OJT	Post-sec.
27-1024	Graphic Designers*	174	201	27	15.5%	27	58	85	Assoc.	Bachelor's
27-1025	Interior Designers*	36	46	10	27.8%	10	13	23	Assoc.	Bachelor's
27-1026	Merchandise Displayers and Window Trimmers*	265	331	66	24.9%	66	92	158	Moderate OJT	Assoc.
27-1027	Set and Exhibit Designers*	1	1	0	0.0%	0	0	0	Bachelor's	Bachelor's + Work Exp.
27-1029	Designers, All Other*	2	2	0	0.0%	0	1	1	Bachelor's	Bachelor's + Work Exp.
27-2000	Entertainers and Performers, Sports, and Related Workers	418	513	95	22.7%	95	117	212		
27-2012	Producers and Directors*	18	19	1	5.6%	1	5	6	Bachelor's	Bachelor's + Work Exp.
27-2021	Athletes and Sports Competitors	1	1	0	0.0%	0	0	0	Long OJT	Post-sec.
27-2022	Coaches and Scouts	223	290	67	30.0%	67	65	132	Long OJT	Bachelor's
27-2023	Umpires, Referees, and Other Sports Officials	17	18	1	5.9%	1	4	5	Long OJT	Bachelor's
27-2032	Choreographers and Dance Instructors*	6	9	3	50.0%	3	3	6	Work Exp.	Assoc.
27-2041	Music Directors and Composers*	63	71	8	12.7%	8	16	24	Bachelor's	Master's
27-2042	Musicians and Singers*	90	105	15	16.7%	15	24	39	Long OJT	Work Exp.
27-3000	Media and Communication Workers	403	473	70	17.4%	71	117	188		
27-3011	Radio and Television Announcers*	6	6	0	0.0%	0	2	2	Moderate OJT	Work Exp.
27-3021	Broadcast News Analysts*	7	7	0	0.0%	0	2	2	Bachelor's	Bachelor's + Work Exp.
27-3022	Reporters and Correspondents*	17	16	-1	-5.9%	0	6	6	Bachelor's	Bachelor's + Work Exp.
27-3031	Public Relations Specialists	153	185	32	20.9%	32	45	77	Bachelor's	Bachelor's + Work Exp.
27-3041	Editors*	66	68	2	3.0%	2	19	21	Bachelor's	Bachelor's + Work Exp.
27-3042	Technical Writers	48	60	12	25.0%	12	11	23	Bachelor's	Bachelor's + Work Exp.
27-3043	Writers and Authors	23	28	5	21.7%	5	7	12	Bachelor's	Bachelor's + Work Exp.
27-3091	Interpreters and Translators	51	65	14	27.5%	14	16	30	Long OJT	Bachelor's
27-3099	Media and Communication Workers, All Other	32	38	6	18.8%	6	9	15	Bachelor's	Bachelor's + Work Exp.
27-4000	Media and Communication Equipment Workers	184	205	21	11.4%	23	44	67		
27-4011	Audio and Video Equipment Technicians	84	96	12	14.3%	12	26	38	Post-sec.	Post-sec. + Work Exp.
27-4012	Broadcast Technicians	16	17	1	6.3%	1	5	6	Post-sec.	Assoc.
27-4014	Sound Engineering Technicians	7	9	2	28.6%	2	2	4	Post-sec.	Post-sec. + Work Exp.
27-4021	Photographers*	35	34	-1	-2.9%	0	3	3	Long OJT	Bachelor's

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27-4031	Camera Operators, Television, Video, and Motion Picture*	25	32	7	28.0%	7	5	12	Moderate OJT	Assoc.
27-4032	Film and Video Editors*	6	7	1	16.7%	1	1	2	Assoc.	Bachelor's
27-4099	Media and Communication Equipment Workers, All Other	11	10	-1	-9.1%	0	2	2	Moderate OJT	Work Exp.
	Health Care	11,209	14,566	3,357	29.9%	3,357	2,321	5,678		
29-0000	Healthcare Practitioner and Technical Occupations	7,424	9,538	2,114	28.5%	2,114	1,673	3,787		
29-1000	Health Diagnosing and Treating Practitioners	4,719	6,102	1,383	29.3%	1,383	1,050	2,433		
29-1011	Chiropractors*	38	56	18	47.4%	18	9	27	1st Prof.	1st Prof. + Work Exp.
29-1021	Dentists, General*	105	117	12	11.4%	12	33	45	1st Prof.	1st Prof. + Work Exp.
29-1029	Dentists, All Other*	28	32	4	14.3%	4	9	13	1st Prof.	1st Prof. + Work Exp.
29-1031	Dietitians and Nutritionists	41	51	10	24.4%	10	16	26	Bachelor's	Bachelor's + Work Exp.
29-1041	Optometrists*	35	44	9	25.7%	9	14	23	1st Prof.	1st Prof. + Work Exp.
29-1051	Pharmacists	470	555	85	18.1%	85	130	215	1st Prof.	1st Prof. + Work Exp.
29-1060	Physicians and Surgeons*	860	1,155	295	34.3%	295	199	494	1st Prof.	1st Prof. + Work Exp.
29-1071	Physician Assistants	58	77	19	32.8%	19	13	32	Bachelor's	Master's
29-1081	Podiatrists	12	16	4	33.3%	4	3	7	1st Prof.	1st Prof. + Work Exp.
29-1111	Registered Nurses	2,424	3,109	685	28.3%	685	501	1,186	Assoc.	Bachelor's
29-1121	Audiologists	12	16	4	33.3%	4	1	5	Master's	PhD
29-1122	Occupational Therapists	107	150	43	40.2%	43	24	67	Master's	Master's + Work Exp.
29-1123	Physical Therapists*	242	346	104	43.0%	104	34	138	Master's	PhD
29-1124	Radiation Therapists	2	2	0	0.0%	0	0	0	Assoc.	Bachelor's
29-1125	Recreational Therapists	3	4	1	33.3%	1	1	2	Bachelor's	Bachelor's + Work Exp.
29-1126	Respiratory Therapists	65	81	16	24.6%	16	14	30	Assoc.	Bachelor's
29-1127	Speech and Language Pathologists	82	110	28	34.1%	28	18	46	Master's	PhD
29-1129	Therapists, All Other*	1	1	0	0.0%	0	0	0	Bachelor's	Master's
29-1131	Veterinarians*	114	154	40	35.1%	40	27	67	1st Prof.	1st Prof. + Work Exp.
29-1199	Health Diagnosing and Treating Practitioners, All Other*	20	26	6	30.0%	6	4	10	1st Prof.	1st Prof. + Work Exp.
29-2000	Health Technologists and Technicians	2,569	3,264	695	27.1%	695	569	1,264		
29-2011	Medical and Clinical Laboratory Technologists	98	124	26	26.5%	26	22	48	Bachelor's	Bachelor's + Work Exp.
29-2012	Medical and Clinical Laboratory Technicians	50	66	16	32.0%	16	11	27	Post-sec.	Assoc.
29-2021	Dental Hygienists	309	347	38	12.3%	38	66	104	Assoc.	Bachelor's
29-2031	Cardiovascular Technologists and Technicians	27	35	8	29.6%	8	5	13	Assoc.	Assoc. + Work Exp.
29-2032	Diagnostic Medical Sonographers and Ultrasound Technologists	38	50	12	31.6%	12	7	19	Assoc.	Bachelor's
29-2033	Nuclear Medicine Technologists	16	20	4	25.0%	4	3	7	Assoc.	Bachelor's
29-2034	Radiologic, CAT, and MRI Technologists and Technicians	221	284	63	28.5%	63	39	102	Assoc.	Bachelor's
29-2041	Emergency Medical Technicians and Paramedics	144	201	57	39.6%	57	35	92	Post-sec.	Post-sec. + Work Exp.
29-2051	Dietetic Technicians	34	49	15	44.1%	15	7	22	Moderate OJT	Post-sec.
29-2052	Pharmacy Technicians	466	558	92	19.7%	92	89	181	Post-sec.	Post-sec. + Work Exp.
29-2055	Surgical Technologists	80	100	20	25.0%	20	16	36	Post-sec.	Assoc.
29-2056	Veterinary Technologists and Technicians	168	227	59	35.1%	59	34	93	Assoc.	Assoc. + Work Exp.
29-2061	Licensed Practical and Licensed Vocational Nurses	302	391	89	29.5%	89	92	181	Post-sec.	Post-sec. + Work Exp.
29-2071	Medical Records and Health Information Technicians	374	503	129	34.5%	129	88	217	Post-sec.	Assoc.
29-2081	Opticians, Dispensing	80	100	20	25.0%	20	18	38	Long OJT	Post-sec.
29-2091	Orthotists and Prosthetists	1	1	0	0.0%	0	0	0	Bachelor's	Bachelor's + Work Exp.
29-2099	Health Technologists and Technicians, All Other	161	208	47	29.2%	47	37	84	Post-sec.	Post-sec. + Work Exp.
29-9000	Other Healthcare Practioner and Technical Occupations	136	172	36	26.5%	36	54	90		

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29-9011	Occupational Health and Safety Specialists	76	95	19	25.0%	19	30	49	Bachelor's	Bachelor's + Work Exp.
29-9012	Occupational Health and Safety Technicians	4	5	1	25.0%	1	2	3	Bachelor's	Bachelor's + Work Exp.
29-9091	Athletic Trainers	6	7	1	16.7%	1	2	3	Bachelor's	Master's
29-9099	Healthcare Practitioner and Technical Workers, All Other	50	65	15	30.0%	15	20	35	Assoc.	Assoc. + Work Exp.
31-0000	Healthcare Support Occupations	3,785	5,028	1,243	32.8%	1,243	648	1,891		
31-1000	Nursing, Psychiatric, and Home Health Aides	1,889	2,587	698	37.0%	698	288	986		
31-1011	Home Health Aides	706	976	270	38.2%	270	108	378	Short OJT	Post-sec.
31-1012	Nursing Aides, Orderlies, and Attendants	1,183	1,611	428	36.2%	428	180	608	Short OJT	Post-sec.
31-2000	Occupational and Physical Therapy Assistants and Aides	153	222	69	45.1%	69	30	99		
31-2011	Occupational Therapist Assistants	18	28	10	55.6%	10	4	14	Assoc.	Assoc. + Work Exp.
31-2012	Occupational Therapist Aides	4	4	0	0.0%	0	1	1	Short OJT	Post-sec.
31-2021	Physical Therapist Assistants	80	115	35	43.8%	35	15	50	Assoc.	Assoc. + Work Exp.
31-2022	Physical Therapist Aides	51	75	24	47.1%	24	10	34	Short OJT	Assoc.
31-9000	Other Healthcare Support Occupations	1,743	2,219	476	27.3%	476	330	806		
31-9011	Massage Therapists*	135	176	41	30.4%	41	25	66	Post-sec.	Post-sec. + Work Exp.
31-9091	Dental Assistants	421	472	51	12.1%	51	94	145	Moderate OJT	Post-sec.
31-9092	Medical Assistants	584	783	199	34.1%	199	105	304	Moderate OJT	Post-sec.
31-9093	Medical Equipment Preparers	105	133	28	26.7%	28	18	46	Post-sec.	Post-sec. + Work Exp.
31-9094	Medical Transcriptionists	159	214	55	34.6%	55	29	84	Post-sec.	Assoc.
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	118	160	42	35.6%	42	21	63	Short OJT	Post-sec.
31-9099	Healthcare Support Workers, All Other	221	281	60	27.1%	60	38	98	Short OJT	Post-sec.
	Service	20,907	25,795	4,888	23.4%	4,888	7,151	12,039		
33-0000	Protective Service Occupations	1,626	1,924	298	18.3%	298	546	844		
33-1000	Supervisors, Protective Service Workers	236	269	33	14.0%	33	99	132		
33-1011	Supervisors and Managers of Correctional Officers	19	21	2	10.5%	2	7	9	Work Exp.	Bachelor's
33-1012	Supervisors and Managers of Police and Detectives	89	98	9	10.1%	9	32	41	Work Exp.	Bachelor's + Work Exp.
33-1021	Supervisors and Managers of Fire Fighting and Prevention Workers	93	106	13	14.0%	13	47	60	Work Exp.	Bachelor's + Work Exp.
33-1099	Supervisors and Managers, Protective Service Workers, All Other	35	44	9	25.7%	9	13	22	Work Exp.	Bachelor's
33-2000	Firefighting and Prevention Workers	216	250	34	15.7%	34	64	98		
33-2011	Fire Fighters	200	232	32	16.0%	32	60	92	Post-sec.	Assoc.
33-2021	Fire Inspectors and Investigators	12	14	2	16.7%	2	3	5	Post-sec.	Post-sec. + Work Exp.
33-2022	Forest Fire Inspectors and Prevention Specialists	4	4	0	0.0%	0	1	1	Work Exp.	Assoc.
33-3000	Law Enforcement Workers	493	540	47	9.5%	47	129	176		
33-3011	Bailiffs	7	8	1	14.3%	1	1	2	Moderate OJT	Work Exp.
33-3012	Correctional Officers	125	137	12	9.6%	12	23	35	Moderate OJT	Post-sec.
33-3021	Detectives and Criminal Investigators	58	61	3	5.2%	3	13	16	Assoc.	Bachelor's
33-3031	Fish and Game Wardens	5	6	1	20.0%	1	1	2	Assoc.	Bachelor's
33-3041	Parking Enforcement Workers	5	6	1	20.0%	1	1	2	Short OJT	Work Exp.
33-3051	Police and Sheriff's Patrol Officers	293	322	29	9.9%	29	90	119	Long OJT	Assoc.
33-9000	Other Protective Service Workers	681	865	184	27.0%	184	254	438		
33-9011	Animal Control Workers	5	6	1	20.0%	1	1	2	Moderate OJT	Work Exp.
33-9021	Private Detectives and Investigators*	30	33	3	10.0%	3	7	10	Work Exp.	Assoc.
33-9032	Security Guards	282	350	68	24.1%	68	50	118	Short OJT	Work Exp.
33-9091	Crossing Guards and Flaggers	142	226	84	59.2%	84	44	128	Short OJT	Work Exp.

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33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	144	164	20	13.9%	20	99	119	Short OJT	Work Exp.
33-9099	Protective Service Workers, All Other	78	86	8	10.3%	8	53	61	Short OJT	Work Exp.
35-0000	Food Preparation and Serving Related Occupations	12,396	15,285	2,889	23.3%	2,889	4,990	7,879		
35-1000	Supervisors, Food Preparation and Food Serving Workers	895	1,100	205	22.9%	205	208	413		
35-1011	Chefs and Head Cooks*	94	116	22	23.4%	22	19	41	Post-sec.	Post-sec. + Work Exp.
35-1012	Supervisors and Managers of Food Preparation and Serving Workers	801	984	183	22.8%	183	189	372	Work Exp.	Post-sec.
35-2000	Cooks and Food Preparation Workers	3,313	4,077	764	23.1%	764	943	1,707		
35-2011	Cooks, Fast Food	759	937	178	23.5%	178	181	359	Short OJT	Work Exp.
35-2012	Cooks, Institution and Cafeteria	476	593	117	24.6%	117	114	231	Moderate OJT	Work Exp.
35-2014	Cooks, Restaurant	992	1,224	232	23.4%	232	236	468	Moderate OJT	Work Exp.
35-2015	Cooks, Short Order	125	150	25	20.0%	25	29	54	Short OJT	Work Exp.
35-2019	Cooks, All Other	9	11	2	22.2%	2	2	4	Moderate OJT	Work Exp.
35-2021	Food Preparation Workers	952	1,162	210	22.1%	210	381	591	Short OJT	Work Exp.
35-3000	Food and Beverage Serving Workers	6,826	8,422	1,596	23.4%	1,596	3,067	4,663		
35-3011	Bartenders	584	705	121	20.7%	121	224	345	Short OJT	Post-sec.
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	3,005	3,690	685	22.8%	685	934	1,619	Short OJT	Work Exp.
35-3022	Counter Attendants in Cafeterias, Food Concessions, and Coffee Shops	701	856	155	22.1%	155	564	719	Short OJT	Work Exp.
35-3031	Waiters and Waitresses	2,235	2,740	505	22.6%	505	1,242	1,747	Short OJT	Work Exp.
35-3041	Food Servers, Nonrestaurant	301	431	130	43.2%	130	103	233	Short OJT	Work Exp.
35-9000	Other Food Preparation and Serving Related Workers	1,362	1,686	324	23.8%	324	772	1,096		
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	356	440	84	23.6%	84	148	232	Short OJT	Work Exp.
35-9021	Dishwashers	536	665	129	24.1%	129	274	403	Short OJT	Work Exp.
35-9031	Hosts and Hostesses in Restaurants, Lounges, and Coffee Shops	389	476	87	22.4%	87	304	391	Short OJT	Work Exp.
35-9099	Food Preparation and Serving Workers, All Other	81	105	24	29.6%	24	46	70	Short OJT	Work Exp.
37-0000	Building and Grounds Cleaning and Maintenance Workers	4,341	5,447	1,106	25.5%	1,106	879	1,985		
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	214	273	59	27.6%	59	35	94		
37-1011	Supervisors and Managers of Housekeeping and Janitorial Workers*	94	119	25	26.6%	25	15	40	Work Exp.	Post-sec.
37-1012	Supervisors and Managers of Landscaping and Groundskeeping Workers*	120	154	34	28.3%	34	20	54	Work Exp.	Post-sec.
37-2000	Building Cleaning and Pest Control Workers	2,331	2,855	524	22.5%	524	480	1,004		
37-2011	Janitors and Cleaners	1,527	1,821	294	19.3%	294	316	610	Short OJT	Work Exp.
37-2012	Maids and Housekeeping Cleaners*	687	881	194	28.2%	194	132	326	Short OJT	Work Exp.
37-2019	Building Cleaning Workers, All Other	94	123	29	30.9%	29	20	49	Short OJT	Work Exp.
37-2021	Pest Control Workers*	23	30	7	30.4%	7	12	19	Moderate OJT	Work Exp.
37-3000	Grounds Maintenance Workers	1,796	2,319	523	29.1%	523	364	887		
37-3011	Landscaping and Groundskeeping Workers	1,464	1,871	407	27.8%	407	295	702	Short OJT	Work Exp.
37-3012	Pesticide Handlers, Sprayers, and Applicators; Vegetation	106	140	34	32.1%	34	22	56	Moderate OJT	Work Exp.
37-3013	Tree Trimmers and Pruners	221	302	81	36.7%	81	46	127	Short OJT	Work Exp.

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37-3019	Grounds Maintenance Workers, All Other	5	6	1	20.0%	1	1	2	Short OJT	Work Exp.
39-0000	Personal Care and Service Occupations	2,544	3,139	595	23.4%	595	736	1,331		
39-1000	Supervisors, Personal Care and Service Workers	129	160	31	24.0%	31	35	66		
39-1011	Gaming Supervisors	5	7	2	40.0%	2	1	3	Long OJT	Work Exp.
39-1021	Supervisors and Managers of Personal Service Workers*	124	153	29	23.4%	29	34	63	Work Exp.	Post-sec.
39-2000	Animal Care and Service Workers	177	245	68	38.4%	68	40	108		
39-2011	Animal Trainers*	42	60	18	42.9%	18	5	23	Moderate OJT	Work Exp.
39-2021	Nonfarm Animal Caretakers*	135	185	50	37.0%	50	35	85	Short OJT	Post-sec.
39-3000	Entertainment Attendants and Related Workers	418	501	83	19.9%	83	257	340		
39-3012	Gaming and Sports Book Writers and Runners	21	33	12	57.1%	12	12	24	Short OJT	Work Exp.
39-3021	Motion Picture Projectionists	12	16	4	33.3%	4	6	10	Short OJT	Work Exp.
39-3031	Ushers, Lobby Attendants, and Ticket Takers	28	32	4	14.3%	4	17	21	Short OJT	Work Exp.
39-3091	Amusement and Recreation Attendants	273	321	48	17.6%	48	170	218	Short OJT	Work Exp.
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	25	29	4	16.0%	4	15	19	Short OJT	Work Exp.
39-3099	Entertainment Attendants and Related Workers, All Other	59	70	11	18.6%	11	37	48	Short OJT	Work Exp.
39-4000	Funeral Service Workers	10	12	2	20.0%	2	5	7		
39-4011	Embalmers	3	3	0	0.0%	0	1	1	Assoc.	Assoc. + Work Exp.
39-4021	Funeral Attendants	7	9	2	28.6%	2	4	6	Short OJT	Work Exp.
39-5000	Personal Appearance Workers	349	415	66	18.9%	66	73	139		
39-5011	Barbers*	10	11	1	10.0%	1	2	3	Post-sec.	Post-sec. + Work Exp.
39-5012	Hairdressers, Hairstylists, and Cosmetologists*	302	360	58	19.2%	58	63	121	Post-sec.	Post-sec. + Work Exp.
39-5092	Manicurists and Pedicurists*	14	16	2	14.3%	2	3	5	Post-sec.	Post-sec. + Work Exp.
39-5094	Skin Care Specialists*	23	28	5	21.7%	5	5	10	Post-sec.	Post-sec. + Work Exp.
39-6000	Transportation, Tourism, and Lodging Attendants	48	56	8	16.7%	8	17	25		
39-6011	Baggage Porters and Bellhops	12	14	2	16.7%	2	3	5	Short OJT	Work Exp.
39-6012	Concierges	7	9	2	28.6%	2	2	4	Short OJT	Work Exp.
39-6021	Tour Guides and Escorts*	25	29	4	16.0%	4	10	14	Moderate OJT	Work Exp.
39-6022	Travel Guides*	4	4	0	0.0%	0	2	2	Moderate OJT	Work Exp.
39-9000	Other Personal Care and Service Workers	1,413	1,750	337	23.8%	337	309	646		
39-9011	Child Care Workers*	485	557	72	14.8%	72	164	236	Short OJT	Post-sec.
39-9021	Personal and Home Care Aides*	410	525	115	28.0%	115	37	152	Short OJT	Work Exp.
39-9031	Fitness Trainers and Aerobics Instructors	171	224	53	31.0%	53	32	85	Work Exp.	Post-sec.
39-9032	Recreation Workers	230	297	67	29.1%	67	42	109	Short OJT	Bachelor's
39-9041	Residential Advisors	27	36	9	33.3%	9	12	21	Moderate OJT	Bachelor's
39-9099	Personal Care and Service Workers, All Other	90	111	21	23.3%	21	22	43	Short OJT	Work Exp.
	Sales and Related	16,527	19,345	2,818	17.1%	2,818	5,312	8,130		
41-0000	Sales and Related Occupations	16,527	19,345	2,818	17.1%	2,818	5,312	8,130		
41-1000	Supervisors, Sales and Related	1,710	2,004	294	17.2%	294	441	735		
41-1011	Supervisors and Managers of Retail Sales Workers*	1,309	1,521	212	16.2%	212	330	542	Work Exp.	Post-sec.
41-1012	Supervisors and Managers of Non-Retail Sales Workers*	401	483	82	20.4%	82	111	193	Work Exp.	Assoc.
41-2000	Retail Sales Workers	8,553	9,943	1,390	16.3%	1,390	3,209	4,599		
41-2011	Cashiers	2,870	3,305	435	15.2%	435	1,401	1,836	Short OJT	Work Exp.
41-2012	Gaming Change Persons and Booth Cashiers	9	14	5	55.6%	5	5	10	Short OJT	Work Exp.
41-2021	Counter and Rental Clerks	327	367	40	12.2%	40	79	119	Short OJT	Work Exp.
41-2022	Parts Salespersons	249	299	50	20.1%	50	100	150	Moderate OJT	Work Exp.
41-2031	Retail Salespersons	5,098	5,958	860	16.9%	860	1,624	2,484	Short OJT	Work Exp.

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41-3000	Sales Representatives, Service	1,151	1,376	225	19.5%	225	339	564		
41-3011	Advertising Sales Agents	70	70	0	0.0%	0	21	21	Moderate OJT	Bachelor's
41-3021	Insurance Sales Agents*	265	311	46	17.4%	46	66	112	Post-sec.	Bachelor's
41-3031	Securities, Commodities, and Financial Services Sales Agents	305	372	67	22.0%	67	93	160	Bachelor's	Bachelor's + Work Exp.
41-3041	Travel Agents*	40	48	8	20.0%	8	5	13	Moderate OJT	Post-sec.
41-3099	Sales Representatives, Services, All Other	471	575	104	22.1%	104	154	258	Moderate OJT	Post-sec.
41-4000	Sales Representatives, Wholesale and Manufacturing	2,724	3,301	577	21.2%	577	709	1,286		
41-4011	Wholesale and Manufacturing Sales Representatives, Technical and Scientific Products	526	646	120	22.8%	120	138	258	Work Exp.	Bachelor's
41-4012	Wholesale and Manufacturing Sales Representatives, Except Technical and Scientific Products	2,198	2,655	457	20.8%	457	571	1,028	Work Exp.	Assoc.
41-9000	Other Sales and Related Workers	2,389	2,721	332	13.9%	332	614	946		
41-9011	Demonstrators and Product Promoters	237	291	54	22.8%	54	77	131	Short OJT	Work Exp.
41-9021	Real Estate Brokers*	690	766	76	11.0%	76	164	240	Post-sec.	Post-sec. + Work Exp.
41-9022	Real Estate Sales Agents*	940	1,040	100	10.6%	100	223	323	Post-sec.	Post-sec. + Work Exp.
41-9031	Sales Engineers	113	134	21	18.6%	21	42	63	Bachelor's	Bachelor's + Work Exp.
41-9041	Telemarketers	117	149	32	27.4%	32	28	60	Short OJT	Work Exp.
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers*	6	9	3	50.0%	3	2	5	Short OJT	Work Exp.
41-9099	Sales and Related Workers, All Other	286	332	46	16.1%	46	78	124	Short OJT	Work Exp.
	Office and Administrative Support	21,273	25,629	4,356	20.5%	4,432	5,039	9,471		
43-0000	Office and Administrative Support Occupations	21,273	25,629	4,356	20.5%	4,432	5,039	9,471		
43-1000	Supervisors, Office and Administrative Support Workers	1,060	1,295	235	22.2%	235	315	550		
43-1011	Supervisors and Managers of Office and Administrative Support Workers	1,060	1,295	235	22.2%	235	315	550	Work Exp.	Assoc.
43-2000	Communication Equipment Workers	93	114	21	22.6%	21	20	41		
43-2011	Switchboard Operators, Including Answering Service	93	114	21	22.6%	21	20	41	Short OJT	Work Exp.
43-3000	Financial Clerks	3,623	4,440	817	22.6%	817	707	1,524		
43-3011	Bill and Account Collectors	409	520	111	27.1%	111	90	201	Short OJT	Work Exp.
43-3021	Billing and Posting Clerks	427	540	113	26.5%	113	84	197	Short OJT	Work Exp.
43-3031	Bookkeeping, Accounting, and Auditing Clerks	2,073	2,524	451	21.8%	451	253	704	Post-sec.	Assoc.
43-3051	Payroll and Timekeeping Clerks	187	231	44	23.5%	44	43	87	Moderate OJT	Post-sec.
43-3061	Purchasing and Procurement Clerks	57	61	4	7.0%	4	24	28	Work Exp.	Bachelor's
43-3071	Tellers	470	564	94	20.0%	94	213	307	Short OJT	Work Exp.
43-4000	Information and Record Clerks	5,024	6,073	1,049	20.9%	1,053	1,571	2,624		
43-4011	Brokerage Clerks	62	78	16	25.8%	16	20	36	Moderate OJT	Work Exp.
43-4021	Correspondence Clerks	38	47	9	23.7%	9	12	21	Short OJT	Work Exp.
43-4031	Court, Municipal, and License Clerks	156	171	15	9.6%	15	46	61	Short OJT	Post-sec.
43-4041	Credit Authorizers, Checkers, and Clerks	42	50	8	19.0%	8	13	21	Work Exp.	Post-sec.
43-4051	Customer Service Representatives	1,604	1,962	358	22.3%	358	506	864	Moderate OJT	Work Exp.
43-4061	Eligibility Interviewers, Government Programs	186	182	-4	-2.2%	0	49	49	Moderate OJT	Post-sec.
43-4071	File Clerks	168	207	39	23.2%	39	49	88	Short OJT	Work Exp.
43-4081	Hotel, Motel, and Resort Desk Clerks	98	112	14	14.3%	14	42	56	Short OJT	Work Exp.
43-4111	Interviewers, Except Eligibility and Loan	228	304	76	33.3%	76	53	129	Short OJT	Work Exp.
43-4121	Library Assistants, Clerical	118	130	12	10.2%	12	56	68	Short OJT	Post-sec.

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43-4131	Loan Interviewers and Clerks	247	300	53	21.5%	53	51	104	Short OJT	Work Exp.
43-4141	New Accounts Clerks	80	96	16	20.0%	16	25	41	Work Exp.	Bachelor's
43-4151	Order Clerks	260	304	44	16.9%	44	79	123	Short OJT	Work Exp.
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	130	164	34	26.2%	34	41	75	Short OJT	Post-sec.
43-4171	Receptionists and Information Clerks	1,133	1,441	308	27.2%	308	389	697	Short OJT	Work Exp.
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks*	8	8	0	0.0%	0	2	2	Short OJT	Work Exp.
43-4199	Information and Record Clerks, All Other	466	517	51	10.9%	51	138	189	Short OJT	Work Exp.
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	3,798	4,396	598	15.7%	670	1,040	1,710		
43-5011	Cargo and Freight Agents	22	27	5	22.7%	5	6	11	Moderate OJT	Work Exp.
43-5021	Couriers and Messengers*	139	176	37	26.6%	37	39	76	Short OJT	Work Exp.
43-5031	Police, Fire, and Ambulance Dispatchers	40	45	5	12.5%	5	8	13	Moderate OJT	Work Exp.
43-5032	Dispatchers, Except Police, Fire, and Ambulance	240	299	59	24.6%	59	51	110	Moderate OJT	Work Exp.
43-5041	Meter Readers, Utilities	30	35	5	16.7%	5	10	15	Short OJT	Work Exp.
43-5051	Postal Service Clerks	70	56	-14	-20.0%	0	15	15	Short OJT	Work Exp.
43-5052	Postal Service Mail Carriers	279	223	-56	-20.1%	0	82	82	Short OJT	Work Exp.
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	15	13	-2	-13.3%	0	1	1	Short OJT	Work Exp.
43-5061	Production, Planning, and Expediting Clerks	342	407	65	19.0%	65	98	163	Work Exp.	Bachelor's
43-5071	Shipping, Receiving, and Traffic Clerks	827	964	137	16.6%	137	228	365	Short OJT	Work Exp.
43-5081	Stock Clerks and Order Fillers	1,721	2,054	333	19.3%	333	469	802	Short OJT	Work Exp.
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	73	97	24	32.9%	24	33	57	Short OJT	Work Exp.
43-6000	Secretaries and Administrative Assistants	3,439	4,153	714	20.8%	714	509	1,223		
43-6011	Executive Secretaries and Administrative Assistants	883	1,061	178	20.2%	178	130	308	Moderate OJT	Assoc.
43-6012	Legal Secretaries	152	187	35	23.0%	35	23	58	Post-sec.	Assoc.
43-6013	Medical Secretaries	828	1,055	227	27.4%	227	126	353	Moderate OJT	Post-sec.
43-6014	Secretaries, Except Legal, Medical, and Executive	1,576	1,850	274	17.4%	274	230	504	Moderate OJT	Assoc.
43-9000	Other Office and Administrative Support Workers	4,236	5,158	922	21.8%	922	877	1,799		
43-9011	Computer Operators*	72	90	18	25.0%	18	8	26	Moderate OJT	Work Exp.
43-9021	Data Entry Keyers	132	166	34	25.8%	34	26	60	Moderate OJT	Work Exp.
43-9022	Word Processors and Typists*	28	33	5	17.9%	5	2	7	Moderate OJT	Post-sec.
43-9031	Desktop Publishers	16	17	1	6.3%	1	3	4	Post-sec.	Post-sec. + Work Exp.
43-9041	Insurance Claims and Policy Processing Clerks	198	229	31	15.7%	31	64	95	Moderate OJT	Post-sec.
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	55	65	10	18.2%	10	12	22	Short OJT	Work Exp.
43-9061	Office Clerks, General	3,096	3,792	696	22.5%	696	609	1,305	Short OJT	Post-sec.
43-9071	Office Machine Operators, Except Computer	67	74	7	10.4%	7	20	27	Short OJT	Work Exp.
43-9081	Proofreaders and Copy Markers	4	6	2	50.0%	2	1	3	Short OJT	Work Exp.
43-9111	Statistical Assistants	19	25	6	31.6%	6	4	10	Bachelor's	Bachelor's + Work Exp.
43-9199	Office and Administrative Support Workers, All Other	549	661	112	20.4%	112	128	240	Short OJT	Work Exp.
	Farming, Fishing, and Forestry	3,574	4,671	1,097	30.7%	1,097	1,234	2,331		
45-0000	Farming, Fishing, and Forestry Occupations	3,574	4,671	1,097	30.7%	1,097	1,234	2,331		
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	209	280	71	34.0%	71	71	142		

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45-1011	Supervisors and Managers of Farming, Fishing, and Forestry Workers*	182	244	62	34.1%	62	62	124	Work Exp.	Work Exp.
45-1012	Farm Labor Contractors*	27	36	9	33.3%	9	9	18	Work Exp.	Work Exp.
45-2000	Agricultural Workers	3,212	4,213	1,001	31.2%	1,001	1,122	2,123		
45-2011	Agricultural Inspectors	11	11	0	0.0%	0	3	3	Moderate OJT	Work Exp.
45-2021	Animal Breeders	1	1	0	0.0%	0	0	0	Moderate OJT	Work Exp.
45-2041	Graders and Sorters, Agricultural Products	116	145	29	25.0%	29	31	60	Short OJT	Work Exp.
45-2091	Agricultural Equipment Operators	156	203	47	30.1%	47	55	102	Short OJT	Work Exp.
45-2092	Farmworkers and Laborers for Crops, Nurseries, and Greenhouses	2,521	3,329	808	32.1%	808	891	1,699	Short OJT	Work Exp.
45-2093	Farmworkers, Farm and Ranch Animals	108	142	34	31.5%	34	38	72	Short OJT	Work Exp.
45-2099	Agricultural Workers, All Other	299	382	83	27.8%	83	104	187	Short OJT	Work Exp.
45-3000	Fishing and Hunting Workers	15	16	1	6.7%	1	4	5		
45-3011	Fishers and Related Fishing Workers*	15	16	1	6.7%	1	4	5	Moderate OJT	Work Exp.
45-4000	Forest, Conservation, and Logging Workers	138	162	24	17.4%	24	37	61		
45-4011	Forest and Conservation Workers	20	28	8	40.0%	8	6	14	Moderate OJT	Work Exp.
45-4021	Fallers and Buckers*	37	42	5	13.5%	5	10	15	Moderate OJT	Work Exp.
45-4022	Logging Equipment Operators*	36	37	1	2.8%	1	9	10	Moderate OJT	Work Exp.
45-4023	Log Graders and Scalers*	13	17	4	30.8%	4	4	8	Moderate OJT	Work Exp.
45-4029	Logging Workers, All Other*	32	38	6	18.8%	6	8	14	Moderate OJT	Work Exp.
	Construction and Extraction	6,281	8,294	2,013	32.0%	2,014	1,604	3,618		
47-0000	Construction and Extraction Occupations	6,281	8,294	2,013	32.0%	2,014	1,604	3,618		
47-1000	Supervisors, Construction and Extraction Workers	449	579	130	29.0%	130	118	248		
47-1011	Supervisors and Managers of Construction Trades and Extraction Workers*	449	579	130	29.0%	130	118	248	Work Exp.	Post-sec.
47-2000	Construction Trades Workers	5,146	6,858	1,712	33.3%	1,712	1,274	2,986		
47-2011	Boilermakers	3	5	2	66.7%	2	2	4	Long OJT	Post-sec.
47-2021	Brickmasons and Blockmasons	113	160	47	41.6%	47	28	75	Long OJT	Post-sec.
47-2022	Stonemasons	20	28	8	40.0%	8	5	13	Long OJT	Post-sec.
47-2031	Carpenters*	1,064	1,372	308	28.9%	308	258	566	Long OJT	Post-sec.
47-2041	Carpet Installers	39	56	17	43.6%	17	10	27	Moderate OJT	Work Exp.
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	13	18	5	38.5%	5	3	8	Moderate OJT	Work Exp.
47-2043	Floor Sanders and Finishers	12	16	4	33.3%	4	3	7	Moderate OJT	Work Exp.
47-2044	Tile and Marble Setters	60	82	22	36.7%	22	15	37	Long OJT	Work Exp.
47-2051	Cement Masons and Concrete Finishers	170	228	58	34.1%	58	31	89	Long OJT	Work Exp.
47-2053	Terrazzo Workers and Finishers	3	4	1	33.3%	1	1	2	Long OJT	Work Exp.
47-2061	Construction Laborers*	723	941	218	30.2%	218	67	285	Moderate OJT	Work Exp.
47-2071	Paving, Surfacing, and Tamping Equipment Operators	77	101	24	31.2%	24	18	42	Moderate OJT	Work Exp.
47-2072	Pile-Driver Operators	9	12	3	33.3%	3	2	5	Moderate OJT	Post-sec.
47-2073	Operating Engineers and Other Construction Equipment Operators	203	258	55	27.1%	55	53	108	Moderate OJT	Work Exp.
47-2081	Drywall and Ceiling Tile Installers	155	216	61	39.4%	61	51	112	Long OJT	Work Exp.
47-2082	Tapers	85	115	30	35.3%	30	28	58	Moderate OJT	Work Exp.
47-2111	Electricians	437	576	139	31.8%	139	137	276	Post-sec.	Post-sec. + Work Exp.
47-2121	Glaziers	79	109	30	38.0%	30	35	65	Long OJT	Post-sec.
47-2131	Insulation Workers, Floor, Ceiling, and Wall	32	46	14	43.8%	14	15	29	Long OJT	Work Exp.

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Standard Occupational Classification Code and Title		Employment** 2010	2020	Change	Percent Change	2010-2020 Openings Due to Growth†	Due to Replacement	Total	Minimum Education	Competitive Education
47-2132	Insulation Workers, Mechanical	25	36	11	44.0%	11	12	23	Long OJT	Work Exp.
47-2141	Painters, Construction and Maintenance*	404	551	147	36.4%	147	104	251	Long OJT	Work Exp.
47-2142	Paperhangers	3	3	0	0.0%	0	0	0	Moderate OJT	Work Exp.
47-2151	Pipelayers*	80	93	13	16.3%	13	25	38	Moderate OJT	Work Exp.
47-2152	Plumbers, Pipefitters, and Steamfitters*	614	837	223	36.3%	223	209	432	Post-sec.	Post-sec. + Work Exp.
47-2161	Plasterers and Stucco Masons	4	6	2	50.0%	2	1	3	Long OJT	Work Exp.
47-2171	Reinforcing Iron and Rebar Workers	128	183	55	43.0%	55	32	87	Long OJT	Work Exp.
47-2181	Roofers	189	269	80	42.3%	80	47	127	Moderate OJT	Work Exp.
47-2211	Sheet Metal Workers	352	471	119	33.8%	119	70	189	Post-sec.	Post-sec. + Work Exp.
47-2221	Structural Iron and Steel Workers	50	66	16	32.0%	16	12	28	Work Exp.	Post-sec.
47-3000	Helpers, Construction Trades	106	145	39	36.8%	39	34	73		
47-3011	Brickmason's, Blockmason's, Stonemason's, and Tile and Marble Setter's Helpers	15	22	7	46.7%	7	5	12	Short OJT	Work Exp.
47-3012	Carpenter's Helpers	25	32	7	28.0%	7	8	15	Short OJT	Work Exp.
47-3013	Electrician's Helpers	2	3	1	50.0%	1	1	2	Short OJT	Work Exp.
47-3014	Painter's, Paperhanger's, Plasterer's, and Stucco Mason's Helpers	15	21	6	40.0%	6	5	11	Short OJT	Work Exp.
47-3015	Pipelayer's, Plumber's, Pipefitter's, and Steamfitter's Helpers	13	18	5	38.5%	5	4	9	Short OJT	Work Exp.
47-3016	Roofer's Helpers	15	21	6	40.0%	6	5	11	Short OJT	Work Exp.
47-3019	Construction Trades' Helpers, All Other	21	28	7	33.3%	7	6	13	Short OJT	Work Exp.
47-4000	Other Construction and Related Workers	534	659	125	23.4%	125	168	293		
47-4011	Construction and Building Inspectors	124	146	22	17.7%	22	40	62	Work Exp.	Assoc.
47-4021	Elevator Installers and Repairers	51	71	20	39.2%	20	18	38	Post-sec.	Post-sec. + Work Exp.
47-4031	Fence Erectors*	11	13	2	18.2%	2	3	5	Moderate OJT	Work Exp.
47-4041	Hazardous Materials Removal Workers	29	41	12	41.4%	12	9	21	Moderate OJT	Work Exp.
47-4051	Highway Maintenance Workers	138	151	13	9.4%	13	38	51	Moderate OJT	Work Exp.
47-4061	Rail-Track Laying and Maintenance Equipment Operators	4	4	0	0.0%	0	1	1	Moderate OJT	Work Exp.
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	109	152	43	39.4%	43	34	77	Moderate OJT	Work Exp.
47-4099	Construction and Related Workers, All Other	68	81	13	19.1%	13	25	38	Moderate OJT	Work Exp.
47-5000	Extraction Workers	46	53	7	15.2%	8	10	18		
47-5021	Earth Drillers, Water and Construction*	29	34	5	17.2%	5	7	12	Moderate OJT	Work Exp.
47-5081	Extraction Worker's Helpers	15	18	3	20.0%	3	3	6	Short OJT	Work Exp.
47-5099	Extraction Workers, All Other	2	1	-1	-50.0%	0	0	0	Moderate OJT	Work Exp.
	Installation, Maintenance, and Repair	5,053	6,017	964	19.1%	964	1,244	2,208		
49-0000	Installation, Maintenance, and Repair Occupations	5,053	6,017	964	19.1%	964	1,244	2,208		
49-1000	Supervisors, Installation, Maintenance, and Repair Workers	349	413	64	18.3%	64	100	164		
49-1011	Supervisors and Managers of Mechanics, Installers, and Repairers	349	413	64	18.3%	64	100	164	Work Exp.	Post-sec.
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	540	622	82	15.2%	82	122	204		
49-2011	Computer, Automated Teller, and Office Machine Repairers*	111	125	14	12.6%	14	29	43	Work Exp.	Post-sec.
49-2021	Radio Mechanics	23	27	4	17.4%	4	4	8	Post-sec.	Post-sec. + Work Exp.
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	176	193	17	9.7%	17	29	46	Post-sec.	Post-sec. + Work Exp.

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49-2092	Electric Motor, Power Tool, and Related Repairers	18	21	3	16.7%	3	2	5	Long OJT	Post-sec.
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	11	12	1	9.1%	1	3	4	Post-sec.	Assoc.
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	49	51	2	4.1%	2	12	14	Post-sec.	Assoc.
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	15	16	1	6.7%	1	4	5	Post-sec.	Post-sec. + Work Exp.
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	53	62	9	17.0%	9	14	23	Post-sec.	Post-sec. + Work Exp.
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	10	11	1	10.0%	1	3	4	Moderate OJT	Post-sec.
49-2098	Security and Fire Alarm Systems Installers	74	104	30	40.5%	30	22	52	Post-sec.	Post-sec. + Work Exp.
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	1,434	1,710	276	19.2%	276	388	664		
49-3011	Aircraft Mechanics and Service Technicians	12	13	1	8.3%	1	4	5	Post-sec.	Assoc.
49-3021	Automotive Body and Related Repairers*	151	179	28	18.5%	28	40	68	Long OJT	Post-sec.
49-3022	Automotive Glass Installers and Repairers	26	31	5	19.2%	5	7	12	Moderate OJT	Post-sec.
49-3023	Automotive Service Technicians and Mechanics*	348	415	67	19.3%	67	99	166	Post-sec.	Assoc.
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	384	456	72	18.8%	72	91	163	Long OJT	Post-sec.
49-3041	Farm Equipment Mechanics	79	105	26	32.9%	26	24	50	Long OJT	Post-sec.
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	186	215	29	15.6%	29	52	81	Long OJT	Post-sec.
49-3043	Rail Car Repairers	10	10	0	0.0%	0	3	3	Long OJT	Work Exp.
49-3051	Motorboat Mechanics*	21	27	6	28.6%	6	6	12	Long OJT	Work Exp.
49-3052	Motorcycle Mechanics*	23	30	7	30.4%	7	7	14	Long OJT	Post-sec.
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics*	19	23	4	21.1%	4	5	9	Moderate OJT	Post-sec.
49-3091	Bicycle Repairers	17	18	1	5.9%	1	5	6	Moderate OJT	Work Exp.
49-3092	Recreational Vehicle Service Technicians	8	8	0	0.0%	0	2	2	Post-sec.	Assoc.
49-3093	Tire Repairers and Changers	150	180	30	20.0%	30	43	73	Short OJT	Work Exp.
49-9000	Other Installation, Maintenance, and Repair Occupations	2,730	3,272	542	19.9%	542	634	1,176		
49-9011	Mechanical Door Repairers	38	52	14	36.8%	14	8	22	Moderate OJT	Work Exp.
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	40	43	3	7.5%	3	8	11	Moderate OJT	Work Exp.
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	411	554	143	34.8%	143	85	228	Long OJT	Post-sec.
49-9031	Home Appliance Repairers*	53	65	12	22.6%	12	11	23	Long OJT	Post-sec.
49-9041	Industrial Machinery Mechanics	239	269	30	12.6%	30	49	79	Long OJT	Post-sec.
49-9042	Maintenance and Repair Workers, General	1,019	1,188	169	16.6%	169	203	372	Long OJT	Work Exp.
49-9043	Maintenance Workers, Machinery	71	77	6	8.5%	6	14	20	Long OJT	Assoc.
49-9044	Millwrights	23	28	5	21.7%	5	5	10	Post-sec.	Post-sec. + Work Exp.
49-9045	Refractory Materials Repairers, except Brickmasons	1	1	0	0.0%	0	0	0	Moderate OJT	Work Exp.
49-9051	Electrical Power-Line Installers and Repairers	80	84	4	5.0%	4	29	33	Post-sec.	Post-sec. + Work Exp.
49-9052	Telecommunications Line Installers and Repairers	56	58	2	3.6%	2	10	12	Long OJT	Post-sec.
49-9061	Camera and Photographic Equipment Repairers	11	15	4	36.4%	4	4	8	Moderate OJT	Work Exp.
49-9062	Medical Equipment Repairers	33	41	8	24.2%	8	10	18	Post-sec.	Assoc.
49-9063	Musical Instrument Repairers and Tuners	5	5	0	0.0%	0	1	1	Long OJT	Post-sec.

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49-9064	Watch Repairers	2	2	0	0.0%	0	1	1	Long OJT	Post-sec.
49-9069	Precision Instrument and Equipment Repairers, All Other	57	62	5	8.8%	5	16	21	Long OJT	Post-sec.
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers*	23	27	4	17.4%	4	5	9	Moderate OJT	Work Exp.
49-9094	Locksmiths and Safe Repairers	24	34	10	41.7%	10	5	15	Moderate OJT	Post-sec.
49-9095	Manufactured Building and Mobile Home Installers	53	69	16	30.2%	16	7	23	Moderate OJT	Work Exp.
49-9096	Riggers	21	28	7	33.3%	7	5	12	Moderate OJT	Work Exp.
49-9097	Signal and Track Switch Repairers	5	5	0	0.0%	0	1	1	Post-sec.	Post-sec. + Work Exp.
49-9098	Installation, Maintenance, and Repair Worker's Helpers	194	261	67	34.5%	67	104	171	Short OJT	Work Exp.
49-9099	Installation, Maintenance, and Repair Workers, All Other	271	304	33	12.2%	33	53	86	Long OJT	Post-sec.
Production		10,483	12,279	1,796	17.1%	1,812	2,225	4,037		
51-0000	Production Occupations	10,483	12,279	1,796	17.1%	1,812	2,225	4,037		
51-1000	Supervisors, Production Workers	750	868	118	15.7%	118	106	224		
51-1011	Supervisors and Managers of Production and Operating Workers	750	868	118	15.7%	118	106	224	Work Exp.	Bachelor's
51-2000	Assemblers and Fabricators	1,837	2,169	332	18.1%	332	355	687		
51-2021	Coil Winders, Tapers, and Finishers	50	58	8	16.0%	8	8	16	Short OJT	Work Exp.
51-2022	Electrical and Electronic Equipment Assemblers	549	619	70	12.8%	70	84	154	Short OJT	Work Exp.
51-2023	Electromechanical Equipment Assemblers	103	126	23	22.3%	23	17	40	Short OJT	Work Exp.
51-2031	Engine and Other Machine Assemblers	14	18	4	28.6%	4	3	7	Moderate OJT	Post-sec.
51-2041	Structural Metal Fabricators and Fitters	243	294	51	21.0%	51	52	103	Long OJT	Post-sec.
51-2091	Fiberglass Laminators and Fabricators	66	80	14	21.2%	14	14	28	Moderate OJT	Work Exp.
51-2092	Assemblers, Multi-task or Team	583	688	105	18.0%	105	126	231	Moderate OJT	Work Exp.
51-2099	Assemblers and Fabricators, All Other	229	286	57	24.9%	57	51	108	Moderate OJT	Work Exp.
51-3000	Food Processing Workers	521	593	72	13.8%	72	160	232		
51-3011	Bakers	196	225	29	14.8%	29	61	90	Long OJT	Work Exp.
51-3021	Butchers and Meat Cutters	131	156	25	19.1%	25	42	67	Long OJT	Post-sec.
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	77	87	10	13.0%	10	24	34	Short OJT	Work Exp.
51-3023	Slaughterers and Meat Packers	5	5	0	0.0%	0	1	1	Moderate OJT	Work Exp.
51-3091	Food Roasting, Baking, and Drying Machine Operators and Tenders	10	11	1	10.0%	1	3	4	Short OJT	Work Exp.
51-3092	Food Mixing and Blending Machine Operators and Tenders	67	72	5	7.5%	5	19	24	Short OJT	Work Exp.
51-3093	Food Cooking Machine Operators and Tenders	35	37	2	5.7%	2	10	12	Short OJT	Work Exp.
51-4000	Metal Workers and Plastic Workers	3,370	4,041	671	19.9%	671	694	1,365		
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	284	336	52	18.3%	52	59	111	Long OJT	Post-sec.
51-4012	Numerical Tool and Process Control Programmers	68	82	14	20.6%	14	14	28	Post-sec.	Post-sec. + Work Exp.
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	28	33	5	17.9%	5	6	11	Moderate OJT	Work Exp.
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	10	12	2	20.0%	2	2	4	Moderate OJT	Work Exp.
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	9	12	3	33.3%	3	2	5	Moderate OJT	Work Exp.
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	370	441	71	19.2%	71	30	101	Moderate OJT	Work Exp.

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51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	13	14	1	7.7%	1	1	2	Moderate OJT	Work Exp.
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	254	310	56	22.0%	56	44	100	Moderate OJT	Work Exp.
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	57	69	12	21.1%	12	23	35	Moderate OJT	Work Exp.
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	22	28	6	27.3%	6	5	11	Moderate OJT	Work Exp.
51-4041	Machinists	423	510	87	20.6%	87	86	173	Long OJT	Post-sec.
51-4051	Metal-Refining Furnace Operators and Tenders	66	82	16	24.2%	16	14	30	Moderate OJT	Work Exp.
51-4052	Pourers and Casters, Metal	55	68	13	23.6%	13	12	25	Moderate OJT	Work Exp.
51-4061	Model Makers, Metal and Plastic	9	10	1	11.1%	1	0	1	Long OJT	Work Exp.
51-4062	Patternmakers, Metal and Plastic	7	9	2	28.6%	2	0	2	Long OJT	Work Exp.
51-4071	Foundry Mold Makers and Coremakers	106	131	25	23.6%	25	20	45	Moderate OJT	Work Exp.
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	330	407	77	23.3%	77	62	139	Moderate OJT	Work Exp.
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	159	188	29	18.2%	29	33	62	Moderate OJT	Work Exp.
51-4111	Tool and Die Makers	68	83	15	22.1%	15	4	19	Long OJT	Post-sec.
51-4121	Welders, Cutters, Solderers, and Brazers	428	515	87	20.3%	87	126	213	Long OJT	Post-sec.
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	40	46	6	15.0%	6	11	17	Moderate OJT	Post-sec.
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	83	95	12	14.5%	12	70	82	Moderate OJT	Work Exp.
51-4192	Lay-Out Workers, Metal and Plastic	5	6	1	20.0%	1	1	2	Long OJT	Work Exp.
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	145	169	24	16.6%	24	34	58	Moderate OJT	Work Exp.
51-4194	Tool Grinders, Filers, and Sharpeners	185	215	30	16.2%	30	19	49	Long OJT	Work Exp.
51-4199	Metal Workers and Plastic Workers, All Other	146	170	24	16.4%	24	16	40	Moderate OJT	Work Exp.
51-5000	Printing Workers	358	385	27	7.5%	27	82	109		
51-5011	Bindery Workers	43	47	4	9.3%	4	15	19	Moderate OJT	Work Exp.
51-5012	Bookbinders	2	2	0	0.0%	0	1	1	Moderate OJT	Work Exp.
51-5021	Job Printers*	23	27	4	17.4%	4	5	9	Long OJT	Work Exp.
51-5022	Prepress Technicians and Workers	72	75	3	4.2%	3	17	20	Long OJT	Post-sec.
51-5023	Printing Press Machine Operators	218	234	16	7.3%	16	44	60	Moderate OJT	Work Exp.
51-6000	Textile, Apparel, and Furnishings Workers	340	401	61	17.9%	61	52	113		
51-6011	Laundry and Dry-Cleaning Workers*	145	182	37	25.5%	37	31	68	Moderate OJT	Work Exp.
51-6021	Pressers, Textile, Garment, and Related Materials	22	26	4	18.2%	4	2	6	Short OJT	Work Exp.
51-6031	Sewing Machine Operators	111	124	13	11.7%	13	6	19	Moderate OJT	Work Exp.
51-6041	Shoe and Leather Workers and Repairers*	9	10	1	11.1%	1	3	4	Long OJT	Work Exp.
51-6051	Sewers, Hand	4	4	0	0.0%	0	1	1	Short OJT	Work Exp.
51-6052	Tailors, Dressmakers, and Custom Sewers	25	29	4	16.0%	4	4	8	Work Exp.	Post-sec.
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	2	2	0	0.0%	0	0	0	Moderate OJT	Work Exp.
51-6092	Fabric and Apparel Patternmakers	4	5	1	25.0%	1	1	2	Long OJT	Work Exp.
51-6093	Upholsterers*	14	15	1	7.1%	1	4	5	Long OJT	Work Exp.
51-6099	Textile, Apparel, and Furnishings Workers, All Other	4	4	0	0.0%	0	0	0	Moderate OJT	Work Exp.

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51-7000	Woodworkers	298	370	72	24.2%	72	65	137		
51-7011	Cabinetmakers and Bench Carpenters*	124	169	45	36.3%	45	36	81	Long OJT	Work Exp.
51-7021	Furniture Finishers	17	21	4	23.5%	4	5	9	Long OJT	Work Exp.
51-7032	Patternmakers, Wood	6	8	2	33.3%	2	2	4	Long OJT	Work Exp.
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	41	46	5	12.2%	5	9	14	Moderate OJT	Work Exp.
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	94	108	14	14.9%	14	9	23	Moderate OJT	Work Exp.
51-7099	Woodworkers, All Other	16	18	2	12.5%	2	4	6	Moderate OJT	Work Exp.
51-8000	Plant and System Operators	159	174	15	9.4%	15	43	58		
51-8012	Power Distributors and Dispatchers	11	12	1	9.1%	1	4	5	Long OJT	Bachelor's
51-8013	Power Plant Operators	6	7	1	16.7%	1	2	3	Post-sec.	Bachelor's
51-8021	Stationary Engineers and Boiler Operators	33	42	9	27.3%	9	8	17	Long OJT	Work Exp.
51-8031	Water and Liquid Waste Treatment Plant and System Operators	99	103	4	4.0%	4	26	30	Post-sec.	Post-sec. + Work Exp.
51-8091	Chemical Plant and System Operators	6	6	0	0.0%	0	2	2	Long OJT	Post-sec.
51-8099	Plant and System Operators, All Other	4	4	0	0.0%	0	1	1	Long OJT	Post-sec.
51-9000	Other Production Occupations	2,850	3,278	428	15.0%	444	668	1,112		
51-9011	Chemical Equipment Operators and Tenders	22	23	1	4.5%	1	4	5	Moderate OJT	Work Exp.
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	63	71	8	12.7%	8	11	19	Moderate OJT	Work Exp.
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	63	78	15	23.8%	15	21	36	Moderate OJT	Work Exp.
51-9022	Grinding and Polishing Workers, Hand	105	125	20	19.0%	20	34	54	Moderate OJT	Work Exp.
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	74	81	7	9.5%	7	23	30	Moderate OJT	Work Exp.
51-9031	Cutters and Trimmers, Hand	32	35	3	9.4%	3	7	10	Short OJT	Work Exp.
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	35	34	-1	-2.9%	0	8	8	Moderate OJT	Work Exp.
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	36	44	8	22.2%	8	9	17	Moderate OJT	Work Exp.
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	11	13	2	18.2%	2	3	5	Moderate OJT	Work Exp.
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	468	542	74	15.8%	74	110	184	Moderate OJT	Post-sec.
51-9071	Jewelers and Precious Stone and Metal Workers*	30	33	3	10.0%	3	7	10	Post-sec.	Post-sec. + Work Exp.
51-9081	Dental Laboratory Technicians	54	66	12	22.2%	12	19	31	Long OJT	Post-sec.
51-9082	Medical Appliance Technicians	4	6	2	50.0%	2	2	4	Long OJT	Post-sec.
51-9083	Ophthalmic Laboratory Technicians	81	99	18	22.2%	18	28	46	Moderate OJT	Work Exp.
51-9111	Packaging and Filling Machine Operators and Tenders	303	355	52	17.2%	52	54	106	Short OJT	Work Exp.
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	82	87	5	6.1%	5	18	23	Moderate OJT	Work Exp.
51-9122	Painters, Transportation Equipment	49	59	10	20.4%	10	12	22	Moderate OJT	Work Exp.
51-9123	Painting, Coating, and Decorating Workers	48	59	11	22.9%	11	12	23	Long OJT	Post-sec.
51-9131	Photographic Process Workers	4	4	0	0.0%	0	1	1	Moderate OJT	Post-sec.
51-9132	Photographic Processing Machine Operators	22	23	1	4.5%	1	6	7	Short OJT	Work Exp.
51-9191	Cementing and Gluing Machine Operators and Tenders	3	4	1	33.3%	1	0	1	Moderate OJT	Work Exp.

Occupational Employment Projections, 2010-2020

Region 15 (Clackamas County)

Standard Occupational Classification Code and Title		Employment** 2010	2020	Change	Percent Change	2010-2020 Openings Due to Growth†	Due to Replacement	Total	Minimum Education	Competitive Education
51-9192	Cleaning, Washing, and Pickling Equipment Operators and Tenders	8	10	2	25.0%	2	2	4	Moderate OJT	Work Exp.
51-9194	Etchers and Engravers	19	21	2	10.5%	2	1	3	Long OJT	Post-sec.
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic*	41	47	6	14.6%	6	16	22	Moderate OJT	Work Exp.
51-9196	Paper Goods Machine Setters, Operators, and Tenders	103	88	-15	-14.6%	0	9	9	Moderate OJT	Work Exp.
51-9197	Tire Builders	2	2	0	0.0%	0	1	1	Moderate OJT	Work Exp.
51-9198	Production Worker's Helpers	570	659	89	15.6%	89	102	191	Short OJT	Work Exp.
51-9199	Production Workers, All Other	518	610	92	17.8%	92	148	240	Moderate OJT	Work Exp.
	Transportation and Material Moving	11,337	13,477	2,140	18.9%	2,140	3,155	5,295		
53-0000	Transportation and Material Moving Occupations	11,337	13,477	2,140	18.9%	2,140	3,155	5,295		
53-1000	Supervisors, Transportation and Material Moving Workers	430	514	84	19.5%	84	97	181		
53-1021	Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand	196	233	37	18.9%	37	44	81	Work Exp.	Assoc.
53-1031	Supervisors and Managers of Transportation and Material-Moving Machine and Vehicle Operators	234	281	47	20.1%	47	53	100	Work Exp.	Bachelor's
53-2000	Air Transportation Workers	16	22	6	37.5%	6	7	13		
53-2012	Commercial Pilots, Except Airline Pilots*	15	21	6	40.0%	6	7	13	Assoc.	Bachelor's
53-2022	Airfield Operations Specialists	1	1	0	0.0%	0	0	0	Long OJT	Work Exp.
53-3000	Motor Vehicle Operators	4,766	5,694	928	19.5%	928	1,030	1,958		
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	3	4	1	33.3%	1	1	2	Moderate OJT	Work Exp.
53-3021	Bus Drivers, Transit and Intercity	72	82	10	13.9%	10	15	25	Moderate OJT	Work Exp.
53-3022	Bus Drivers, School	744	819	75	10.1%	75	151	226	Short OJT	Work Exp.
53-3031	Driver/Sales Workers	551	648	97	17.6%	97	119	216	Short OJT	Work Exp.
53-3032	Truck Drivers, Heavy and Tractor-Trailer	2,386	2,908	522	21.9%	522	527	1,049	Post-sec.	Post-sec. + Work Exp.
53-3033	Truck Drivers, Light or Delivery Services	866	1,056	190	21.9%	190	191	381	Moderate OJT	Work Exp.
53-3041	Taxi Drivers and Chauffeurs*	68	86	18	26.5%	18	10	28	Short OJT	Work Exp.
53-3099	Motor Vehicle Operators, All Other	76	91	15	19.7%	15	16	31	Short OJT	Work Exp.
53-4000	Rail Transportation Workers	72	72	0	0.0%	0	24	24		
53-4011	Locomotive Engineers	22	22	0	0.0%	0	8	8	Moderate OJT	Work Exp.
53-4021	Railroad Brake, Signal, and Switch Operators	22	22	0	0.0%	0	7	7	Moderate OJT	Work Exp.
53-4031	Railroad Conductors and Yardmasters	26	26	0	0.0%	0	8	8	Moderate OJT	Work Exp.
53-4099	Rail Transportation Workers, All Other	2	2	0	0.0%	0	1	1	Moderate OJT	Work Exp.
53-5000	Water Transportation Workers	32	32	0	0.0%	0	13	13		
53-5011	Sailors and Marine Oilers	18	18	0	0.0%	0	8	8	Short OJT	Work Exp.
53-5021	Captains, Mates, and Pilots of Water Vessels	12	12	0	0.0%	0	4	4	Post-sec.	Post-sec. + Work Exp.
53-5031	Ship Engineers	2	2	0	0.0%	0	1	1	Work Exp.	Bachelor's
53-6000	Other Transportation Workers	762	791	29	3.8%	29	251	280		
53-6011	Bridge and Lock Tenders	1	1	0	0.0%	0	0	0	Short OJT	Work Exp.
53-6021	Parking Lot Attendants	25	31	6	24.0%	6	8	14	Short OJT	Work Exp.
53-6031	Service Station Attendants	704	721	17	2.4%	17	234	251	Short OJT	Work Exp.
53-6051	Transportation Inspectors	24	27	3	12.5%	3	6	9	Work Exp.	Post-sec.
53-6099	Transportation Workers, All Other	8	11	3	37.5%	3	3	6	Short OJT	Work Exp.
53-7000	Material Moving Workers	5,259	6,352	1,093	20.8%	1,093	1,733	2,826		
53-7011	Conveyor Operators and Tenders	24	30	6	25.0%	6	8	14	Short OJT	Work Exp.
53-7021	Crane and Tower Operators	25	29	4	16.0%	4	7	11	Long OJT	Work Exp.

Occupational Employment Projections, 2010-2020

Region 15 (Clackamas County)

Standard Occupational Classification Code and Title		Employment** 2010	2020	Change	Percent Change	2010-2020 Openings Due to Growth†	Due to Replacement	Total	Minimum Education	Competitive Education
53-7031	Dredge Operators	2	3	1	50.0%	1	1	2	Moderate OJT	Work Exp.
53-7032	Excavating and Loading Machine and Dragline Operators	63	83	20	31.7%	20	22	42	Moderate OJT	Work Exp.
53-7041	Hoist and Winch Operators	27	35	8	29.6%	8	11	19	Moderate OJT	Work Exp.
53-7051	Fork Lift, Industrial Truck and Tractor Operators	1,267	1,524	257	20.3%	257	395	652	Short OJT	Work Exp.
53-7061	Cleaners of Vehicles and Equipment	282	331	49	17.4%	49	91	140	Short OJT	Work Exp.
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,429	2,923	494	20.3%	494	855	1,349	Short OJT	Work Exp.
53-7063	Machine Feeders and Offbearers	134	141	7	5.2%	7	22	29	Short OJT	Work Exp.
53-7064	Packers and Packagers, Hand	778	953	175	22.5%	175	247	422	Short OJT	Work Exp.
53-7072	Pump Operators, Except Wellhead Pumpers	5	5	0	0.0%	0	1	1	Moderate OJT	Work Exp.
53-7081	Refuse and Recyclable Material Collectors	196	264	68	34.7%	68	68	136	Short OJT	Work Exp.
53-7121	Tank Car, Truck, and Ship Loaders	8	9	1	12.5%	1	3	4	Moderate OJT	Work Exp.
53-7199	Material Moving Workers, All Other	19	22	3	15.8%	3	2	5	Short OJT	Work Exp.
	Nonclassifiable††	1,725	1,869	144	8.3%	144	185	329		
66-0000	Nonclassifiable Occupations	1,725	1,869	144	8.3%	144	185	329		
66-2000	Nonclassifiable Occupations	1,725	1,869	144	8.3%	144	185	329		
66-2021	Leased Workers	397	450	53	13.4%	53	108	161		
66-2031	Sheltered Workshop Workers	105	118	13	12.4%	13	NA	13		
66-2041	Non-covered Agricultural Workers	254	254	0	0.0%	0	77	77		
66-2051	Home Care Workers	957	1,035	78	8.2%	78	NA	78		