

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2014 - 2016

Occupation		Employment		Employment Change		Average Annual	Education and Training Classification		
Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Occupation ²	Typical on-the-job Training ³
00-0000	Total, All Occupations	1,750,100	1,781,920	31,820	1.82	59,070			
11-1011	Chief Executives	7,360	7,390	30	0.41	170	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	25,720	26,390	670	2.60	740	Bachelor's degree	Less than 5 years	None
11-1031	Legislators	730	750	20	3.02	30	Bachelor's degree	Less than 5 years	None
11-2011	Advertising and Promotions Managers	410	420	10	1.21	10	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,470	1,510	40	2.72	50	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	4,070	4,220	150	3.63	150	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	800	820	20	1.88	20	Bachelor's degree	5 years or more	None
11-3011	Administrative Services Managers	5,620	5,770	150	2.67	150	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	2,890	2,940	50	1.87	60	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	6,060	6,170	110	1.85	160	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	3,350	3,420	70	2.06	90	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	710	730	20	2.68	20	Bachelor's degree	5 years or more	None
11-3071	Managers	1,440	1,470	30	2.22	50	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	320	320	0	0.94	10	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,460	1,500	40	2.75	60	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	480	490	20	3.36	20	Bachelor's degree	5 years or more	None
11-9013	Managers	13,850	12,870	-970	-7.03	220	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	8,690	8,670	-20	-0.25	110	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Center/Program	1,080	1,100	20	1.57	40	Bachelor's degree	Less than 5 years	None
11-9032	Secondary School	3,030	3,070	40	1.42	100	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	1,600	1,620	10	0.81	50	Master's degree	5 years or more	None
11-9039	Education Administrators, All Other	280	290	0	1.06	10	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	1,690	1,730	40	2.31	50	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	4,710	4,680	-40	-0.79	80	High school diploma or equivalent	Less than 5 years	None
11-9061	Funeral Service Managers	150	150	0	0.69	0	Associate's degree	Less than 5 years	None
11-9071	Gaming Managers	710	740	20	3.23	30	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	690	680	-10	-1.31	20	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	4,900	4,950	50	1.00	130	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	230	230	0	-1.28	0	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	340	330	-10	-3.81	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Managers	5,200	5,190	0	-0.06	110	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1,660	1,680	30	1.63	40	Bachelor's degree	5 years or more	None
11-9161	Emergency Management Directors	280	290	10	1.77	10	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	4,850	4,780	-80	-1.63	110	High school diploma or equivalent	Less than 5 years	None
13-1011	Performers, and Athletes	120	120	0	0.00	0	Bachelor's degree	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	340	350	10	3.25	10	High school diploma or equivalent	None	Long-term on-the-job training
13-1022	Products	1,340	1,390	50	3.43	60	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Farm Products	3,390	3,440	60	1.62	90	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,450	4,460	10	0.13	100	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	3,530	3,600	70	1.98	90	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	1,880	1,950	70	3.67	90	Bachelor's degree	None	None
13-1071	Human Resources Specialists	4,330	4,390	50	1.25	100	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	1,510	1,470	-40	-2.39	20	Bachelor's degree	None	None
13-1081	Logisticians	2,200	2,260	60	2.82	50	Bachelor's degree	None	None
13-1111	Management Analysts	5,780	5,870	90	1.49	120	Bachelor's degree	Less than 5 years	None

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Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Occupation ²	Typical on-the-job Training ³
13-1121	Meeting, Convention, and Event Planners	1,230	1,300	70	5.60	50	Bachelor's degree	None	None
13-1131	Fundraisers	870	880	10	1.04	20	Bachelor's degree	None	None
13-1141	Specialists	880	890	10	0.68	20	Bachelor's degree	None	None
13-1151	Training and Development Specialists	3,020	3,110	90	3.05	90	Bachelor's degree	Less than 5 years	None
13-1161	Specialists	2,610	2,760	150	5.83	110	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	6,850	6,840	-20	-0.25	80	High school diploma or equivalent	None	None
13-2011	Accountants and Auditors	17,280	17,780	510	2.92	750	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	790	800	10	0.63	10	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	880	890	10	1.59	40	Bachelor's degree	None	None
13-2041	Credit Analysts	540	550	20	2.80	20	Bachelor's degree	None	None
13-2051	Financial Analysts	1,280	1,320	40	3.12	50	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,110	1,140	30	2.34	30	Bachelor's degree	None	None
13-2053	Insurance Underwriters	770	760	-10	-1.29	20	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	340	340	0	0.89	10	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Credit Counselors	650	660	10	2.17	20	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	4,740	4,810	70	1.52	120	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	580	570	0	-0.17	20	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,280	1,290	20	1.41	30	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	680	690	0	0.44	10	Bachelor's degree	None	Moderate-term on-the-job training
15-1111	Computer and Information Research Scientists	160	170	0	1.22	0	Doctoral or professional degree	None	None
15-1121	Computer Systems Analysts	3,110	3,250	140	4.57	110	Bachelor's degree	None	None
15-1122	Information Security Analysts	570	610	40	6.88	30	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	2,380	2,400	10	0.59	70	Bachelor's degree	None	None
15-1132	Software Developers, Applications	3,350	3,480	130	3.88	100	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	2,160	2,250	90	3.97	70	Bachelor's degree	None	None
15-1134	Web Developers	980	1,000	20	2.05	20	Associate's degree	None	None
15-1141	Database Administrators	1,000	1,030	20	2.39	30	Bachelor's degree	Less than 5 years	None
15-1142	Network and Computer Systems Administrators	2,750	2,800	50	1.67	60	Bachelor's degree	None	None
15-1143	Computer Network Architects	620	630	10	1.95	10	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	6,260	6,450	190	2.97	180	Some college, no degree	None	Moderate-term on-the-job training
15-1152	Computer Network Support Specialists	1,640	1,660	20	1.40	30	Associate's degree	None	None
15-1199	Computer Occupations, All Other	1,710	1,700	-10	-0.29	20	Bachelor's degree	None	None
15-2031	Operations Research Analysts	690	730	40	5.22	30	Bachelor's degree	None	None
15-2041	Statisticians	190	190	10	2.67	10	Master's degree	None	None
17-1011	Architects, Except Landscape and Naval	740	760	20	3.12	30	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	130	130	0	2.38	10	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	120	120	0	3.33	0	Bachelor's degree	None	None
17-1022	Surveyors	1,110	1,160	50	4.42	40	Bachelor's degree	Less than 5 years	None
17-2011	Aerospace Engineers	940	950	20	2.03	30	Bachelor's degree	None	None
17-2031	Biomedical Engineers	130	130	0	3.17	10	Bachelor's degree	None	None
17-2041	Chemical Engineers	240	240	0	1.26	10	Bachelor's degree	None	None
17-2051	Civil Engineers	2,040	2,130	100	4.76	90	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	240	240	0	1.67	10	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,120	1,150	30	3.04	40	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,550	1,540	-10	-0.84	30	Bachelor's degree	None	None
17-2081	Environmental Engineers	370	380	10	2.96	20	Bachelor's degree	None	None
17-2111	Engineers and Inspectors	790	830	40	4.43	40	Bachelor's degree	None	None

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17-2112	Industrial Engineers	1,760	1,810	50	3.08	80	Bachelor's degree	None	None
17-2131	Materials Engineers	230	240	10	4.41	10	Bachelor's degree	None	None
17-2141	Mechanical Engineers	2,450	2,540	90	3.63	130	Bachelor's degree	None	None
17-2151	Safety Engineers	600	630	30	5.18	30	Bachelor's degree	None	None
17-2171	Petroleum Engineers	3,920	4,180	270	6.82	230	Bachelor's degree	None	None
17-2199	Engineers, All Other	760	770	10	1.84	20	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	1,080	1,090	10	1.21	20	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	340	350	10	2.92	10	Associate's degree	None	None
17-3013	Mechanical Drafters	1,560	1,580	20	0.96	30	Associate's degree	None	None
17-3019	Drafters, All Other	140	150	10	3.50	0	Associate's degree	None	None
17-3022	Civil Engineering Technicians	530	540	10	2.47	20	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,650	1,650	10	0.43	40	Associate's degree	None	None
17-3024	Electro-Mechanical Technicians	390	410	20	4.36	20	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	230	240	10	3.46	10	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	930	930	0	0.32	20	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	600	630	30	4.16	20	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	890	910	20	1.80	30	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	1,630	1,690	60	3.49	60	High school diploma or equivalent	None	Moderate-term on-the-job training
19-1011	Animal Scientists	70	70	0	0.00	0	Doctoral or professional degree	None	None
19-1012	Food Scientists and Technologists	150	150	0	2.00	10	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	110	110	0	-1.82	0	Doctoral or professional degree	None	None
19-1023	Zoologists and Wildlife Biologists	110	110	0	1.83	0	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	220	220	0	-1.37	10	Bachelor's degree	None	None
19-1031	Conservation Scientists	330	320	0	-0.61	10	Bachelor's degree	None	None
19-1032	Foresters	80	90	0	3.57	0	Bachelor's degree	None	None
19-1041	Epidemiologists	80	80	0	1.27	0	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	470	460	0	-0.64	10	Doctoral or professional degree	None	None
19-2012	Physicists	50	50	0	0.00	0	Doctoral or professional degree	None	None
19-2021	Atmospheric and Space Scientists	260	260	0	-0.38	10	Bachelor's degree	None	None
19-2031	Chemists	440	440	0	0.45	10	Bachelor's degree	None	None
19-2041	Health	1,090	1,120	20	2.20	40	Bachelor's degree	None	None
19-2042	Geographers	1,260	1,320	60	4.93	70	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	50	50	0	-2.04	0	Bachelor's degree	None	None
19-3011	Economists	120	120	0	1.67	10	Master's degree	None	None
19-3022	Survey Researchers	120	130	0	1.61	0	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	1,660	1,660	0	0.06	50	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	140	140	0	0.74	0	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	140	140	10	3.62	10	Master's degree	None	None
19-3093	Historians	60	60	0	0.00	0	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	140	140	0	-1.40	0	Bachelor's degree	None	None
19-4011	Agricultural and Food Science Technicians	280	280	0	-0.36	10	Associate's degree	None	Moderate-term on-the-job training
19-4021	Biological Technicians	1,410	1,420	10	0.71	50	Bachelor's degree	None	None
19-4031	Chemical Technicians	500	500	0	0.60	20	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	1,260	1,320	60	5.02	80	Associate's degree	None	Moderate-term on-the-job training
19-4091	Technicians, Including Health	570	590	20	3.69	30	Associate's degree	None	None
19-4092	Forensic Science Technicians	200	210	0	1.49	10	Bachelor's degree	None	Moderate-term on-the-job training
19-4093	Forest and Conservation Technicians	150	150	0	0.00	10	Associate's degree	None	None

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19-4099	Other	870	860	0	-0.23	30	Associate's degree	None	None
21-1011	Counselors	1,320	1,340	30	1.98	40	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Counselors	3,850	3,910	60	1.51	110	Master's degree	None	None
21-1013	Marriage and Family Therapists	530	550	20	3.41	20	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	1,680	1,710	30	1.97	50	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	2,040	2,070	30	1.42	60	Master's degree	None	None
21-1019	Counselors, All Other	160	160	10	3.23	10	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	5,200	5,220	20	0.46	120	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	1,700	1,720	20	1.35	50	Master's degree	None	None
21-1023	Workers	1,310	1,320	10	0.76	30	Bachelor's degree	None	None
21-1029	Social Workers, All Other	700	700	0	0.00	10	Bachelor's degree	None	None
21-1091	Health Educators	600	610	10	1.84	20	Bachelor's degree	None	None
21-1092	Specialists	700	710	10	1.14	20	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	3,200	3,240	40	1.31	100	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	1,090	1,110	20	1.74	40	High school diploma or equivalent	None	Short-term on-the-job training
21-1099	Other	560	570	0	0.71	20	Master's degree	None	None
21-2011	Clergy	830	830	0	0.24	20	Bachelor's degree	None	Moderate-term on-the-job training
23-1011	Lawyers	9,310	9,340	40	0.39	160	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	110	120	0	2.68	0	Doctoral or professional degree	None	None
23-1021	Hearing Officers	180	180	0	0.57	0	Doctoral or professional degree	Less than 5 years	Short-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	950	950	10	0.74	20	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2011	Paralegals and Legal Assistants	3,270	3,340	70	2.26	90	Associate's degree	None	None
23-2091	Court Reporters	190	200	10	3.12	10	Postsecondary non-degree award	None	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	1,830	1,870	30	1.75	40	High school diploma or equivalent	None	Short-term on-the-job training
23-2099	Legal Support Workers, All Other	410	420	10	1.21	10	High school diploma or equivalent	None	Short-term on-the-job training
25-1011	Business Teachers, Postsecondary	1,170	1,190	20	1.28	20	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	470	490	10	2.74	10	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	640	650	10	1.09	10	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	230	230	0	0.86	0	Doctoral or professional degree	None	None
25-1041	Agricultural Sciences Teachers, Postsecondary	110	110	0	0.00	0	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	510	520	10	1.77	10	Doctoral or professional degree	None	None
25-1051	Teachers, Postsecondary	70	70	0	0.00	0	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	330	330	0	1.22	10	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	180	180	0	0.56	0	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	150	160	0	0.65	0	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	250	260	0	1.19	10	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	230	230	0	0.44	0	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	2,120	2,220	100	4.71	80	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	1,150	1,210	60	4.86	40	Master's degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	900	910	10	1.34	20	Doctoral or professional degree	None	None
25-1111	Postsecondary	170	170	0	1.20	0	Doctoral or professional degree	None	None
25-1113	Social Work Teachers, Postsecondary	100	100	0	1.00	0	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,120	1,130	20	1.34	20	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	450	460	0	0.89	10	Doctoral or professional degree	None	None
25-1123	Postsecondary	850	860	10	0.82	20	Doctoral or professional degree	None	None
25-1124	Postsecondary	300	310	0	1.32	10	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	380	380	0	0.79	10	Doctoral or professional degree	None	None

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25-1126	Philosophy and Religion Teachers, Postsecondary	290	300	10	1.72	10	Doctoral or professional degree	None	None
25-1192	Home Economics Teachers, Postsecondary	100	100	0	1.05	0	Master's degree	None	None
25-1193	Postsecondary	420	420	0	0.96	10	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	1,850	1,890	30	1.84	40	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	1,680	1,690	10	0.77	30	Doctoral or professional degree	None	None
25-2011	Preschool Teachers, Except Special Education	5,740	5,840	100	1.81	210	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	2,180	2,240	60	2.84	90	Bachelor's degree	None	Internship/residency
25-2021	Education	17,790	18,300	510	2.84	640	Bachelor's degree	None	Internship/residency
25-2022	Career/Technical Education	7,880	8,100	220	2.83	280	Bachelor's degree	None	Internship/residency
25-2023	School	260	260	0	1.16	10	Bachelor's degree	Less than 5 years	Internship/residency
25-2031	Career/Technical Education	12,950	13,150	200	1.55	450	Bachelor's degree	None	Internship/residency
25-2032	School	1,140	1,160	20	1.40	40	Bachelor's degree	Less than 5 years	Internship/residency
25-2051	Special Education Teachers, Preschool	50	50	0	0.00	0	Bachelor's degree	None	Internship/residency
25-2052	Elementary School	1,880	1,910	30	1.44	40	Bachelor's degree	None	Internship/residency
25-2053	Special Education Teachers, Middle School	1,150	1,160	20	1.48	30	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	1,440	1,460	20	1.39	30	Bachelor's degree	None	Internship/residency
25-2059	Special Education Teachers, All Other	120	120	0	0.82	0	Bachelor's degree	None	Internship/residency
25-3011	Teachers and Instructors	1,070	1,080	10	0.56	20	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	2,160	2,190	30	1.48	50	High school diploma or equivalent	Less than 5 years	None
25-3098	Substitute Teachers	6,430	6,500	60	0.96	140	Bachelor's degree	None	Internship/residency
25-3099	Teachers and Instructors, All Other	4,190	4,230	40	0.86	90	Bachelor's degree	None	Internship/residency
25-4011	Archivists	120	120	0	2.48	0	Master's degree	None	None
25-4012	Curators	100	100	0	3.03	0	Master's degree	None	None
25-4013	Museum Technicians and Conservators	120	130	10	4.84	10	Bachelor's degree	None	None
25-4021	Librarians	1,850	1,890	40	2.00	60	Master's degree	None	None
25-4031	Library Technicians	1,350	1,380	30	2.52	100	Postsecondary non-degree award	None	None
25-9011	Specialists	200	200	0	-0.50	0	Bachelor's degree	Less than 5 years	None
25-9021	Farm and Home Management Advisors	60	60	0	0.00	0	Master's degree	None	None
25-9031	Instructional Coordinators	1,190	1,210	20	1.68	20	Master's degree	5 years or more	None
25-9041	Teacher Assistants	12,270	12,460	190	1.57	360	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	430	420	-10	-1.63	0	Bachelor's degree	None	None
27-1011	Art Directors	320	310	-10	-2.86	10	Bachelor's degree	5 years or more	None
27-1012	Craft Artists	50	50	0	-4.26	0	High school diploma or equivalent	None	Long-term on-the-job training
27-1013	Illustrators	460	450	-10	-2.16	10	High school diploma or equivalent	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	140	130	0	-1.48	0	Bachelor's degree	None	Moderate-term on-the-job training
27-1021	Commercial and Industrial Designers	230	240	0	0.85	10	Bachelor's degree	None	None
27-1023	Floral Designers	1,020	1,010	-10	-0.98	30	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	1,990	1,960	-30	-1.31	50	Bachelor's degree	None	None
27-1025	Interior Designers	390	390	0	0.51	10	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	560	570	10	1.78	20	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	90	90	0	-1.14	0	Bachelor's degree	None	None
27-2012	Producers and Directors	620	600	-20	-2.93	20	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	150	150	0	0.00	0	High school diploma or equivalent	None	Long-term on-the-job training
27-2022	Coaches and Scouts	3,130	3,210	80	2.43	130	Bachelor's degree	None	None
27-2031	Dancers	60	60	0	1.61	0	High school diploma or equivalent	None	Long-term on-the-job training
27-2041	Music Directors and Composers	590	580	-10	-1.20	20	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	650	640	-10	-2.14	20	High school diploma or equivalent	None	Long-term on-the-job training

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Occupation		Employment		Employment Change		Average Annual	Education and Training Classification		
Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Occupation ²	Typical on-the-job Training ³
27-3011	Radio and Television Announcers	500	480	-20	-4.19	10	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	610	590	-20	-3.30	20	Bachelor's degree	None	None
27-3031	Public Relations Specialists	2,200	2,220	20	1.05	40	Bachelor's degree	None	None
27-3041	Editors	980	970	-10	-0.51	20	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	480	490	10	2.94	20	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,210	1,170	-30	-2.73	20	Bachelor's degree	None	Moderate-term on-the-job training
27-3091	Interpreters and Translators	430	450	20	4.94	10	Bachelor's degree	None	Short-term on-the-job training
27-3099	Media and Communication Workers, All Other	230	230	0	0.88	0	High school diploma or equivalent	None	Short-term on-the-job training
27-4011	Audio and Video Equipment Technicians	520	520	0	-0.39	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	190	190	-10	-3.14	0	Associate's degree	None	Short-term on-the-job training
27-4021	Photographers	1,780	1,750	-30	-1.80	20	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Picture	260	260	-10	-2.29	0	Bachelor's degree	None	None
27-4032	Film and Video Editors	200	200	-10	-2.96	0	Bachelor's degree	None	None
27-4099	All Other	60	60	0	-1.67	0	High school diploma or equivalent	None	Short-term on-the-job training
29-1011	Chiropractors	480	470	-10	-2.91	10	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,610	1,570	-40	-2.36	40	Doctoral or professional degree	None	None
29-1023	Orthodontists	70	70	0	-2.78	0	Doctoral or professional degree	None	Internship/residency
29-1029	Dentists, All Other Specialists	120	120	0	-2.50	0	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	870	880	10	1.03	10	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	610	600	-10	-1.32	20	Doctoral or professional degree	None	None
29-1051	Pharmacists	4,000	4,070	70	1.78	130	Doctoral or professional degree	None	None
29-1062	Family and General Practitioners	2,400	2,350	-50	-1.96	60	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	290	280	-10	-1.74	10	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	120	120	0	-2.48	0	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	160	160	-10	-3.09	0	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	210	210	0	-1.42	10	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	880	880	-10	-0.68	20	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	6,200	6,200	0	0.03	150	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	1,660	1,680	30	1.69	40	Master's degree	None	None
29-1081	Podiatrists	50	50	0	0.00	0	Doctoral or professional degree	None	Internship/residency
29-1122	Occupational Therapists	920	940	10	1.30	10	Master's degree	None	None
29-1123	Physical Therapists	1,980	2,010	40	1.82	70	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	320	320	0	0.62	10	Associate's degree	None	None
29-1125	Recreational Therapists	370	370	0	0.00	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	1,500	1,510	20	1.07	20	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,490	1,510	20	1.27	30	Master's degree	None	None
29-1128	Exercise Physiologists	60	50	0	-1.82	0	Bachelor's degree	None	None
29-1129	Therapists, All Other	60	70	0	3.17	0	Bachelor's degree	None	None
29-1131	Veterinarians	720	730	20	2.09	30	Doctoral or professional degree	None	None
29-1141	Registered Nurses	30,470	30,680	210	0.68	620	Associate's degree	None	None
29-1151	Nurse Anesthetists	210	210	0	0.00	0	Master's degree	None	None
29-1171	Nurse Practitioners	960	980	10	1.46	20	Master's degree	None	None
29-1181	Audiologists	120	120	0	1.64	0	Doctoral or professional degree	None	None
29-1199	Other	330	330	0	-0.91	10	Master's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	2,150	2,130	-10	-0.65	50	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	2,030	2,060	30	1.33	60	Associate's degree	None	None
29-2021	Dental Hygienists	1,920	1,920	0	-0.10	40	Associate's degree	None	None

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Occupation		Employment		Employment Change		Average Annual	Education and Training Classification		
Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Occupation ²	Typical on-the-job Training ³
29-2031	Cardiovascular Technologists and Technicians	820	840	20	2.45	20	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	860	900	40	4.53	30	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	260	260	0	0.39	0	Associate's degree	None	None
29-2034	Radiologic Technologists	2,650	2,660	10	0.41	40	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	440	440	0	0.69	10	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	3,360	3,420	60	1.64	110	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	580	580	0	0.69	10	Associate's degree	None	None
29-2052	Pharmacy Technicians	5,070	5,210	140	2.72	110	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	1,000	990	-20	-1.79	10	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	360	360	0	0.28	0	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	1,980	2,020	40	2.12	40	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	920	980	60	6.88	40	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	710	710	0	-0.42	10	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	13,190	13,230	40	0.33	330	Postsecondary non-degree award	None	None
29-2071	Technicians	3,890	3,930	40	0.95	110	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	910	910	0	-0.11	20	High school diploma or equivalent	None	Long-term on-the-job training
29-2099	Health Technologists and Technicians, All Other	680	690	10	0.73	10	High school diploma or equivalent	None	None
29-9011	Occupational Health and Safety Specialists	950	980	30	3.15	40	Bachelor's degree	None	Short-term on-the-job training
29-9012	Occupational Health and Safety Technicians	200	210	10	3.45	10	High school diploma or equivalent	None	Moderate-term on-the-job training
29-9091	Athletic Trainers	380	390	0	1.05	10	Bachelor's degree	None	None
29-9092	Genetic Counselors	120	120	0	3.42	0	Master's degree	None	None
29-9099	All Other	500	510	0	0.60	10	Bachelor's degree	None	None
31-1011	Home Health Aides	8,000	8,380	380	4.70	330	Less than high school	None	Short-term on-the-job training
31-1013	Psychiatric Aides	550	540	-10	-1.81	10	High school diploma or equivalent	None	Short-term on-the-job training
31-1014	Nursing Assistants	18,750	18,840	90	0.48	370	Postsecondary non-degree award	None	None
31-1015	Orderlies	2,120	2,140	20	0.75	50	High school diploma or equivalent	None	Short-term on-the-job training
31-2011	Occupational Therapy Assistants	410	420	10	3.21	20	Associate's degree	None	None
31-2021	Physical Therapist Assistants	990	1,010	20	2.33	30	Associate's degree	None	None
31-2022	Physical Therapist Aides	460	470	10	2.38	20	High school diploma or equivalent	None	Short-term on-the-job training
31-9011	Massage Therapists	610	620	0	0.33	10	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	3,790	3,740	-50	-1.32	70	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	7,820	7,830	0	0.04	140	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	500	500	0	0.40	10	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	970	940	-30	-2.59	20	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	860	880	20	1.86	20	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Caretakers	2,210	2,260	50	2.17	60	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1,130	1,130	10	0.44	20	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	350	340	0	-0.86	10	High school diploma or equivalent	None	None
33-1011	First-Line Supervisors of Correctional Officers	830	840	10	1.69	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors of Police and Detectives	960	990	30	3.11	50	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	Prevention Workers	630	650	20	3.67	40	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	Workers, All Other	1,000	1,020	30	2.71	40	High school diploma or equivalent	Less than 5 years	None
33-2011	Firefighters	2,320	2,400	80	3.49	100	Postsecondary non-degree award	None	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	110	120	0	3.60	10	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
33-2022	Forest Fire Inspectors and Prevention Specialists	200	200	0	-0.50	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	5,730	5,930	200	3.42	250	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	1,650	1,670	20	1.27	40	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training

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Occupation		Employment		Employment Change		Average Annual	Education and Training Classification		
Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
33-3031	Fish and Game Wardens	120	120	0	0.86	0	High school diploma or equivalent	None	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	7,680	7,920	250	3.19	360	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9011	Animal Control Workers	230	240	10	3.48	10	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	310	310	10	1.95	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9031	Investigators	1,400	1,460	60	3.92	50	High school diploma or equivalent	None	Short-term on-the-job training
33-9032	Security Guards	12,500	12,940	440	3.51	400	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Protective Service Workers	1,480	1,510	30	2.16	170	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	580	600	10	2.23	70	High school diploma or equivalent	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	1,920	1,950	30	1.46	40	High school diploma or equivalent	5 years or more	None
35-1012	Serving Workers	11,850	12,270	420	3.54	570	High school diploma or equivalent	Less than 5 years	None
35-2011	Cooks, Fast Food	13,250	13,430	180	1.37	360	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	9,320	9,460	140	1.46	250	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	12,050	12,550	500	4.18	490	Less than high school	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	1,860	1,890	30	1.72	50	Less than high school	None	Short-term on-the-job training
35-2021	Food Preparation Workers	8,500	8,680	190	2.20	370	Less than high school	None	Short-term on-the-job training
35-3011	Bartenders	5,420	5,570	150	2.82	270	Less than high school	None	Short-term on-the-job training
35-3021	Including Fast Food	28,180	29,370	1,190	4.22	1,940	Less than high school	None	Short-term on-the-job training
35-3022	and Coffee Shop	7,050	7,100	50	0.70	700	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	30,000	30,720	720	2.41	1,920	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	3,000	3,060	60	1.97	120	Less than high school	None	Short-term on-the-job training
35-9011	Bartender Helpers	2,940	3,020	80	2.72	210	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	5,060	5,180	110	2.23	350	Less than high school	None	Short-term on-the-job training
35-9031	Coffee Shop	3,670	3,760	90	2.40	440	Less than high school	None	None
35-9099	Other	190	190	0	0.53	10	Less than high school	None	Short-term on-the-job training
37-1011	Janitorial Workers	3,270	3,300	30	0.86	80	High school diploma or equivalent	Less than 5 years	None
37-1012	Service, and Groundskeeping Workers	2,020	2,020	10	0.30	20	High school diploma or equivalent	Less than 5 years	None
37-2011	Housekeeping Cleaners	23,740	24,240	500	2.09	650	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	13,310	13,380	70	0.54	280	Less than high school	None	Short-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	10,050	10,190	140	1.41	330	Less than high school	None	Short-term on-the-job training
37-3012	Vegetation	270	270	0	0.37	10	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,400	1,440	40	3.08	60	High school diploma or equivalent	None	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	210	210	10	2.93	10	Less than high school	None	Short-term on-the-job training
39-1011	Gaming Supervisors	1,810	1,830	30	1.44	50	High school diploma or equivalent	Less than 5 years	None
39-1012	Slot Supervisors	990	1,010	20	2.02	30	High school diploma or equivalent	Less than 5 years	None
39-1021	First-Line Supervisors of Personal Service Workers	1,960	1,950	-20	-0.87	30	High school diploma or equivalent	Less than 5 years	None
39-2011	Animal Trainers	300	300	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	1,870	1,910	40	2.09	40	Less than high school	None	Short-term on-the-job training
39-3011	Gaming Dealers	3,060	3,180	120	3.82	100	High school diploma or equivalent	None	Short-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	290	300	10	3.45	10	High school diploma or equivalent	None	Short-term on-the-job training
39-3019	Gaming Service Workers, All Other	440	460	20	3.63	10	High school diploma or equivalent	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,040	1,020	-20	-1.55	80	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,220	1,250	30	2.21	90	Less than high school	None	Short-term on-the-job training
39-3092	Costume Attendants	100	110	0	3.96	10	High school diploma or equivalent	None	Short-term on-the-job training
39-3093	Attendants	300	300	0	1.00	20	High school diploma or equivalent	None	Short-term on-the-job training
39-4011	Embalmers	150	140	-10	-4.64	0	Postsecondary non-degree award	None	Short-term on-the-job training
39-4021	Funeral Attendants	540	530	-10	-1.30	10	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	300	300	0	0.66	10	Associate's degree	None	Long-term on-the-job training

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Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Occupation ²	Typical on-the-job Training ³
39-5011	Barbers	970	950	-20	-1.86	30	Postsecondary non-degree award	None	None
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,780	3,760	-30	-0.69	90	Postsecondary non-degree award	None	None
39-5092	Manicurists and Pedicurists	220	230	0	0.90	0	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	480	510	30	5.19	20	Postsecondary non-degree award	None	None
39-6011	Baggage Porters and Bellhops	200	200	10	2.51	10	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	200	200	10	3.59	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7011	Tour Guides and Escorts	220	230	0	1.35	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7012	Travel Guides	60	60	0	0.00	0	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9011	Childcare Workers	12,690	12,720	40	0.28	400	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	16,030	16,810	770	4.81	470	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	2,600	2,630	20	0.92	40	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	2,640	2,670	30	1.14	50	Bachelor's degree	None	None
39-9041	Residential Advisors	1,050	1,060	10	1.04	50	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	230	230	0	0.44	10	High school diploma or equivalent	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	23,250	23,380	130	0.57	560	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	3,970	3,910	-60	-1.44	50	High school diploma or equivalent	Less than 5 years	None
41-2011	Cashiers	42,300	43,450	1,150	2.73	2,850	Less than high school	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	1,450	1,510	60	3.79	110	High school diploma or equivalent	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	3,380	3,440	60	1.90	130	Less than high school	None	Short-term on-the-job training
41-2022	Parts Salespersons	2,990	3,120	130	4.49	140	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	48,840	49,760	920	1.89	2,260	Less than high school	None	Short-term on-the-job training
41-3011	Advertising Sales Agents	1,330	1,310	-10	-0.98	40	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5,590	5,630	40	0.79	150	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Sales Agents	2,110	2,140	30	1.38	60	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	470	450	-20	-3.21	10	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	6,200	6,310	110	1.78	220	High school diploma or equivalent	None	Short-term on-the-job training
41-4011	Manufacturing, Technical and Scientific Products	5,810	5,990	180	3.15	210	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Manufacturing, Except Technical and Scientific	13,360	13,830	470	3.50	490	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9011	Demonstrators and Product Promoters	670	720	50	7.97	50	High school diploma or equivalent	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,400	1,400	0	0.00	10	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	5,640	5,620	-20	-0.28	60	High school diploma or equivalent	None	Long-term on-the-job training
41-9031	Sales Engineers	300	310	20	5.03	10	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	4,140	4,210	70	1.67	130	Less than high school	None	Short-term on-the-job training
43-1011	Support Workers	19,440	19,790	350	1.77	630	High school diploma or equivalent	Less than 5 years	None
43-2011	Service	1,560	1,520	-50	-2.88	30	High school diploma or equivalent	None	Short-term on-the-job training
43-2021	Telephone Operators	80	80	0	-3.57	0	High school diploma or equivalent	None	Short-term on-the-job training
43-3011	Bill and Account Collectors	5,240	5,360	120	2.23	200	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	5,380	5,460	80	1.56	130	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	30,580	31,260	680	2.21	620	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	2,360	2,450	90	3.86	90	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,750	2,830	80	2.80	100	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,320	1,330	10	0.83	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	7,400	7,420	20	0.23	390	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	310	320	10	2.87	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4011	Brokerage Clerks	320	330	10	1.54	10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4021	Correspondence Clerks	180	180	0	1.12	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	1,570	1,640	70	4.72	60	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation		Employment		Employment Change		Average Annual	Education and Training Classification		
Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
43-4041	Credit Authorizers, Checkers, and Clerks	410	410	0	-0.25	0	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	27,880	28,760	880	3.16	1,170	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	630	650	20	2.37	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,810	1,780	-30	-1.82	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,730	2,810	80	3.04	180	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1,300	1,280	-20	-1.16	20	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,300	1,340	40	3.39	80	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	2,650	2,690	40	1.47	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	1,220	1,210	-10	-0.82	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1,920	1,910	-10	-0.62	50	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Timekeeping	1,860	1,870	10	0.38	50	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	10,270	10,290	30	0.26	300	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Travel Clerks	2,520	2,380	-140	-5.41	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,990	1,930	-60	-2.86	40	High school diploma or equivalent	None	Short-term on-the-job training
43-5011	Cargo and Freight Agents	210	220	10	2.34	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	1,000	970	-30	-3.21	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,410	1,460	50	3.33	60	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,170	2,230	60	2.67	90	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	910	900	-10	-0.66	30	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	890	840	-50	-5.76	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	3,610	3,450	-160	-4.48	120	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Processing Machine Operators	930	880	-50	-5.29	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	4,600	4,660	60	1.26	140	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	6,790	6,880	90	1.37	220	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	18,520	18,730	220	1.17	700	Less than high school	None	Short-term on-the-job training
43-5111	Recordkeeping	730	770	40	5.75	40	High school diploma or equivalent	None	Short-term on-the-job training
43-6011	Assistants	10,880	10,860	-20	-0.22	130	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	1,930	1,900	-30	-1.55	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	7,360	7,480	130	1.73	150	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Legal, Medical, and Executive	25,900	26,410	510	1.97	560	High school diploma or equivalent	None	Short-term on-the-job training
43-9011	Computer Operators	830	810	-20	-2.66	10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	2,420	2,320	-100	-4.17	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	340	320	-20	-7.04	0	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	140	140	0	-0.71	0	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	4,000	4,040	40	1.10	130	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Postal Service	1,020	1,000	-20	-1.76	20	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	40,410	40,660	250	0.61	950	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	630	620	-10	-1.43	20	High school diploma or equivalent	None	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	70	70	0	0.00	0	Bachelor's degree	None	None
43-9199	Other	1,190	1,180	-10	-0.51	30	High school diploma or equivalent	None	Short-term on-the-job training
45-1011	Forestry Workers	690	680	0	-0.15	10	High school diploma or equivalent	Less than 5 years	None
45-2011	Agricultural Inspectors	370	370	0	0.54	10	Bachelor's degree	None	Moderate-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	430	440	10	2.31	10	Less than high school	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	880	890	10	1.36	30	Less than high school	None	Short-term on-the-job training
45-2092	Greenhouse	8,740	8,620	-120	-1.35	270	Less than high school	None	Short-term on-the-job training
45-2093	Animals	1,900	1,940	40	2.00	80	Less than high school	None	Short-term on-the-job training
45-4022	Logging Equipment Operators	370	370	10	1.63	10	High school diploma or equivalent	None	Moderate-term on-the-job training

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47-1011	Extraction Workers	8,960	9,270	310	3.47	260	High school diploma or equivalent	5 years or more	None
47-2011	Boilermakers	150	140	0	-2.04	10	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	650	680	40	5.72	30	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	150	150	0	2.70	0	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	7,810	7,920	100	1.31	150	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	160	160	0	0.00	0	Less than high school	None	Short-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	100	100	0	1.96	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	420	420	0	0.72	10	Less than high school	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2,960	3,090	130	4.46	100	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	16,360	16,850	490	2.98	590	Less than high school	None	Short-term on-the-job training
47-2071	Operators	1,990	1,990	10	0.30	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Equipment Operators	5,860	6,140	280	4.71	260	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	880	900	20	1.93	20	Less than high school	None	Moderate-term on-the-job training
47-2082	Tapers	90	90	0	2.20	0	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	6,400	6,660	260	4.02	250	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	500	510	20	3.64	20	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	560	590	30	4.97	20	Less than high school	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	140	150	10	8.57	10	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	3,790	3,830	50	1.24	80	Less than high school	None	Moderate-term on-the-job training
47-2151	Pipelayers	1,020	1,060	50	4.43	40	Less than high school	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5,880	6,120	240	4.10	200	High school diploma or equivalent	None	Apprenticeship
47-2161	Plasterers and Stucco Masons	150	160	10	3.31	0	Less than high school	None	Long-term on-the-job training
47-2171	Reinforcing Iron and Rebar Workers	100	100	10	5.10	0	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	1,310	1,320	10	1.07	40	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,630	3,660	30	0.77	80	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	690	720	30	3.90	40	High school diploma or equivalent	None	Apprenticeship
47-3011	Stonemasons, and Tile and Marble Setters	370	400	30	7.59	20	Less than high school	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	770	780	10	1.82	20	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	1,580	1,690	110	6.97	90	High school diploma or equivalent	None	Short-term on-the-job training
47-3014	Stucco Masons	50	50	0	0.00	0	Less than high school	None	Short-term on-the-job training
47-3015	Steamfitters	1,350	1,420	70	5.12	60	High school diploma or equivalent	None	Short-term on-the-job training
47-3016	Helpers--Roofers	210	220	10	3.33	10	Less than high school	None	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	310	320	10	4.26	10	Less than high school	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	920	950	30	2.93	30	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	240	250	10	2.08	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	1,920	1,990	80	4.02	60	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	580	610	30	4.49	20	Less than high school	None	Moderate-term on-the-job training
47-4099	Construction and Related Workers, All Other	70	70	0	2.99	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	3,230	3,460	240	7.35	240	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	2,810	3,000	200	7.02	210	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	3,740	4,020	280	7.49	280	Less than high school	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	610	650	40	6.23	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5031	and Blasters	440	440	-10	-1.13	10	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5041	Continuous Mining Machine Operators	160	180	20	9.15	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	130	140	10	9.45	10	High school diploma or equivalent	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	4,510	4,810	300	6.54	250	Less than high school	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	1,360	1,460	100	7.41	80	High school diploma or equivalent	None	Moderate-term on-the-job training

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47-5099	Extraction Workers, All Other	110	110	10	7.55	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-1011	Repairers	6,120	6,280	160	2.60	230	High school diploma or equivalent	Less than 5 years	None
49-2011	Repairers	1,210	1,200	-10	-0.83	30	Some college, no degree	None	None
49-2021	and Repairs	160	160	0	1.25	0	Associate's degree	None	Moderate-term on-the-job training
49-2022	Repairers, Except Line Installers	2,060	2,070	10	0.63	40	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	450	450	-10	-1.10	10	Associate's degree	None	None
49-2094	and Industrial Equipment	1,320	1,320	0	0.00	30	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Substation, and Relay	290	300	10	3.41	10	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Motor Vehicles	220	220	0	0.45	0	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Installers and Repairers	220	210	-10	-4.07	10	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	640	670	30	4.23	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	3,590	3,570	-20	-0.53	90	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	2,070	2,100	30	1.55	60	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	280	280	0	0.72	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	8,220	8,430	200	2.48	310	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Specialists	4,460	4,560	100	2.29	140	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Technicians	540	550	10	2.41	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Engines	1,840	1,920	70	4.02	90	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	120	120	0	1.65	0	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	220	230	10	3.21	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Engine Mechanics	340	340	10	2.08	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	180	190	10	5.52	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	2,280	2,380	100	4.44	130	High school diploma or equivalent	None	Short-term on-the-job training
49-9011	Mechanical Door Repairers	330	350	20	5.39	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Mechanical Door	920	940	20	1.63	40	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Mechanics and Installers	3,980	4,150	170	4.28	180	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	410	400	-10	-2.44	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	5,570	5,940	370	6.55	340	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	2,130	2,220	90	4.09	80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9044	Millwrights	150	160	10	4.58	10	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	2,170	2,260	90	4.05	120	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,130	1,150	20	1.77	40	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	410	430	10	3.39	20	Associate's degree	None	Moderate-term on-the-job training
49-9063	Musical Instrument Repairers and Tuners	120	120	0	1.64	10	High school diploma or equivalent	None	Apprenticeship
49-9069	Other	280	280	0	-1.06	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,470	16,830	370	2.23	460	High school diploma or equivalent	None	Long-term on-the-job training
49-9091	and Repairers	1,160	1,170	0	0.34	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	320	330	10	1.55	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9095	Installers	180	170	-10	-3.37	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9096	Riggers	380	400	30	6.91	20	High school diploma or equivalent	None	Short-term on-the-job training
49-9097	Signal and Track Switch Repairers	90	90	0	0.00	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9098	Workers	2,570	2,670	100	3.70	140	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Other	1,170	1,180	10	1.20	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-1011	Workers	8,250	8,370	110	1.37	170	Postsecondary non-degree award	Less than 5 years	None
51-2011	Assemblers	1,550	1,620	80	4.98	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	240	240	0	0.00	0	High school diploma or equivalent	None	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	1,540	1,550	10	0.32	20	High school diploma or equivalent	None	Short-term on-the-job training

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Occupation		Employment		Employment Change		Average Annual	Education and Training Classification		
Code	Title	2014	2016	Number	Percent	Openings	Typical Entry-Level Education ¹	Work Experience in a Related Occupation ²	Typical on-the-job Training ³
51-2023	Electromechanical Equipment Assemblers	930	970	40	3.97	30	High school diploma or equivalent	None	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	990	1,030	40	4.47	40	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,730	1,790	60	3.58	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	11,320	11,660	350	3.07	360	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	1,800	1,860	70	3.68	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	2,040	2,130	90	4.36	90	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,670	1,790	120	7.26	100	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,910	1,980	70	3.77	80	Less than high school	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	1,590	1,640	50	2.82	60	Less than high school	None	Short-term on-the-job training
51-3091	Machine Operators and Tenders	130	140	10	5.26	10	Less than high school	None	Moderate-term on-the-job training
51-3092	Food Batchmakers	800	810	10	1.50	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	690	710	20	3.20	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3099	Food Processing Workers, All Other	470	480	10	2.12	20	Less than high school	None	Moderate-term on-the-job training
51-4011	Metal and Plastic	2,400	2,550	150	6.08	130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Programmers, Metal and Plastic	170	180	10	7.06	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4021	Operators, and Tenders, Metal and Plastic	340	330	-10	-1.76	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Metal and Plastic	270	260	0	-1.13	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Metal and Plastic	580	570	0	-0.69	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Operators, and Tenders, Metal and Plastic	2,450	2,450	0	0.12	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4032	Operators, and Tenders, Metal and Plastic	640	620	-20	-2.36	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Tool Setters, Operators, and Tenders, Metal and	920	920	-10	-0.54	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Operators, and Tenders, Metal and Plastic	810	810	0	-0.25	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4035	and Tenders, Metal and Plastic	210	210	0	0.96	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	7,520	7,810	290	3.81	310	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	100	100	0	2.00	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	70	70	0	0.00	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	110	110	0	0.91	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	210	210	0	0.95	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Setters, Operators, and Tenders, Metal and Plastic	870	850	-20	-1.84	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Tenders, Metal and Plastic	1,700	1,680	-20	-1.35	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	530	530	10	1.33	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	11,340	11,650	310	2.73	430	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Operators, and Tenders	910	970	60	6.63	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Tenders, Metal and Plastic	330	340	10	2.10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4192	Layout Workers, Metal and Plastic	50	50	0	-3.92	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	and Tenders, Metal and Plastic	510	500	-10	-1.97	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	180	180	0	1.68	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	250	250	0	0.00	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	330	300	-30	-7.93	10	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,240	1,160	-80	-6.30	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	300	270	-30	-8.39	10	High school diploma or equivalent	None	Short-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	3,210	3,200	-10	-0.31	90	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	360	350	-10	-1.39	0	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	910	850	-60	-6.89	10	Less than high school	None	Short-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	170	160	-10	-5.45	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	200	190	-10	-4.08	0	Less than high school	None	Moderate-term on-the-job training
51-6062	Tenders	60	60	-10	-8.33	0	High school diploma or equivalent	None	Moderate-term on-the-job training

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51-6091	Operators, and Tenders, Synthetic and Glass Fibers	110	100	-10	-4.63	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	370	370	-10	-1.34	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	860	850	-10	-1.27	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7041	Wood	380	380	0	1.07	10	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Tenders, Except Sawing	270	270	0	-1.48	0	High school diploma or equivalent	None	Short-term on-the-job training
51-7099	Woodworkers, All Other	200	190	-10	-3.03	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8012	Power Distributors and Dispatchers	150	150	0	2.07	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	430	430	0	-0.23	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	500	510	10	2.39	20	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	340	330	-10	-2.68	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	630	660	30	4.94	40	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Operators, and Gaugers	1,860	1,980	110	6.12	120	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	370	360	-10	-1.91	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Still Machine Setters, Operators, and Tenders	260	270	0	1.14	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Operators, and Tenders	560	560	0	-0.36	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	400	400	10	1.26	10	Less than high school	None	Moderate-term on-the-job training
51-9023	and Tenders	980	980	0	0.41	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	190	180	-10	-3.16	0	Less than high school	None	Short-term on-the-job training
51-9032	and Tenders	930	920	-10	-0.86	20	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Machine Setters, Operators, and Tenders	2,180	2,130	-40	-2.02	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	and Tenders	620	610	-20	-2.73	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Weighers	7,470	7,800	330	4.42	330	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	160	150	-10	-3.75	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	390	380	-10	-3.35	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	140	140	0	-0.72	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	350	350	0	1.14	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,350	2,360	10	0.60	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,300	1,330	40	2.77	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	780	800	20	2.70	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	210	220	0	0.93	10	Less than high school	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	490	480	-10	-1.23	20	High school diploma or equivalent	None	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	290	300	10	2.43	10	Less than high school	None	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	80	80	0	2.53	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	630	620	-10	-1.58	20	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	920	950	20	2.38	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	6,710	6,870	160	2.37	210	Less than high school	None	Short-term on-the-job training
51-9199	Production Workers, All Other	870	880	10	1.27	30	High school diploma or equivalent	None	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	240	260	20	8.20	20	High school diploma or equivalent	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Handlers	2,560	2,660	100	3.83	110	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material Moving Workers	2,900	2,970	70	2.42	110	High school diploma or equivalent	Less than 5 years	None
53-2012	Commercial Pilots	240	240	0	1.67	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2022	Airfield Operations Specialists	130	130	0	-0.77	10	High school diploma or equivalent	None	Long-term on-the-job training
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	390	400	10	2.57	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	970	1,010	40	4.12	40	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	5,130	5,120	-10	-0.21	80	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	5,880	6,010	140	2.30	160	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	27,220	27,950	720	2.66	780	Postsecondary non-degree award	None	Short-term on-the-job training

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53-3033	Light Truck or Delivery Services Drivers	9,100	9,280	180	1.92	230	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,480	1,510	30	1.69	30	Less than high school	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	530	520	-10	-1.50	20	High school diploma or equivalent	None	Short-term on-the-job training
53-4011	Locomotive Engineers	560	560	0	0.00	20	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-4021	Railroad Brake, Signal, and Switch Operators	400	400	0	0.25	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-4031	Railroad Conductors and Yardmasters	460	460	0	-0.22	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6021	Parking Lot Attendants	570	590	10	1.92	40	Less than high school	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,290	1,330	40	2.78	60	Less than high school	None	Short-term on-the-job training
53-6041	Traffic Technicians	250	250	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6051	Transportation Inspectors	250	250	0	1.62	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6061	Transportation Attendants, Except Flight Attendants	280	290	10	2.15	10	High school diploma or equivalent	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	470	490	20	3.59	20	Less than high school	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	540	560	30	5.23	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Oper:	930	970	40	4.39	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	5,460	5,600	140	2.53	190	Less than high school	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	4,410	4,500	90	2.04	180	Less than high school	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, H.	27,410	28,270	860	3.14	1,300	Less than high school	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	950	990	40	4.20	40	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	4,130	4,300	170	4.04	200	Less than high school	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operator	390	430	40	9.54	30	Less than high school	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	950	990	40	3.99	50	Less than high school	None	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	1,250	1,320	70	5.43	70	Less than high school	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	1,440	1,470	30	1.88	40	Less than high school	None	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	120	130	10	4.13	10	Less than high school	None	Short-term on-the-job training
53-7199	Material Moving Workers, All Other	80	90	0	1.19	0	Less than high school	None	Short-term on-the-job training

Footnotes:

¹Represents the typical education level needed to enter the occupation.

²Indicates if work experience in a related occupation is commonly considered necessary by employers for entry, or is a commonly accepted substitute for formal types of training.

³Indicates the typical on-the-job training needed to attain competency in the occupation.

NOTE: For more information about the education, work experience, and on-the-job training categories assigned to occupations, see www.bls.gov/emp/ep_education_training_system.htm

Source: Employment Projections program, Oklahoma Employment Security Commission, Research & Analysis Division.