

Utah Occupational Projections 2015-2017

SOC Code	Occupation Title	Employment Estimates				Annual Openings			Preparation		
		2015	2017	Numeric Change	Average Annual Growth Rate	Growth	Replacements	Total	Education	Work Experience	Job Training
00-0000	Total, All Occupations	1,443,210	1,527,690	84,490	2.9%	42,700	34,170	76,870			
11-0000	Management Occupations	78,320	82,920	4,600	2.9%	2,300	1,400	3,700			
11-1000	Top Executives	29,690	31,490	1,800	3.0%	900	490	1,390			
11-1011	Chief Executives	3,190	3,340	150	2.3%	70	70	140	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	25,900	27,530	1,630	3.2%	820	410	1,230	Bachelor's degree	Less than 5 years	None
11-1031	Legislators	610	620	20	1.6%	10	10	20	Bachelor's degree	Less than 5 years	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	6,070	6,500	430	3.5%	210	120	330			
11-2011	Advertising and Promotions Managers	210	230	20	5.1%	10	10	20	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,640	1,790	150	4.6%	80	30	110	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	3,890	4,130	240	3.0%	120	80	190	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	340	350	20	2.2%	10	10	10	Bachelor's degree	5 years or more	None
11-3000	Operations Specialties Managers	13,970	14,860	890	3.2%	450	230	670			
11-3011	Administrative Services Managers	1,760	1,850	80	2.4%	40	20	70	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	3,150	3,430	280	4.4%	140	30	170	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	4,300	4,590	300	3.4%	150	70	220	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	1,870	1,930	60	1.6%	30	30	60	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	460	490	30	2.8%	10	10	20	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,060	1,110	50	2.3%	20	20	50	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	140	150	10	3.2%	0	0	10	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	940	1,010	70	3.9%	40	20	60	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	280	300	20	3.3%	10	10	20	Bachelor's degree	5 years or more	None
11-9000	Other Management Occupations	28,600	30,080	1,480	2.6%	740	560	1,300			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,120	5,300	180	1.7%	90	80	170	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	3,470	3,750	280	4.0%	140	50	180	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	270	280	10	1.9%	10	10	10	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	2,030	2,090	60	1.4%	30	50	80	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	1,110	1,190	80	3.6%	40	30	70	Master's degree	5 years or more	None
11-9039	Education Administrators, All Other	190	200	10	2.7%	10	10	10	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	1,390	1,440	50	1.8%	30	30	50	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	1,620	1,730	110	3.3%	50	30	80	High school diploma or equivalent	Less than 5 years	None
11-9061	Funeral Service Managers	110	120	10	2.2%	0	0	0	Associate's degree	Less than 5 years	None
11-9081	Lodging Managers	480	510	30	3.0%	10	20	30	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	2,900	3,070	170	2.9%	80	60	150	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	470	480	20	1.6%	10	10	20	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	140	150	10	3.5%	10	0	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	3,170	3,340	170	2.7%	90	70	150	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1,010	1,060	50	2.2%	20	20	40	Bachelor's degree	5 years or more	None
11-9161	Emergency Management Directors	210	220	10	1.7%	0	0	10	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	4,910	5,170	270	2.7%	130	110	240	High school diploma or equivalent	Less than 5 years	None

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13-0000	Business and Financial Operations Occupations	71,980	77,100	5,120	3.6%	2,570	1,370	3,940			
13-1000	Business Operations Specialists	42,140	45,010	2,870	3.4%	1,440	660	2,090			
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	60	60	0	2.5%	0	0	0	Bachelor's degree	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	220	220	10	1.4%	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,270	1,360	100	3.8%	50	30	80	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,390	2,460	80	1.6%	40	40	80	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	1,790	1,870	80	2.2%	40	40	80	High school diploma or equivalent	None	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	60	60	0	0.8%	0	0	0	Postsecondary non-degree award	None	Moderate-term on-the-job training
13-1041	Compliance Officers	2,180	2,290	110	2.6%	60	30	90	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	2,570	2,820	250	4.8%	120	80	200	Bachelor's degree	None	None
13-1071	Human Resources Specialists	4,860	5,160	310	3.2%	150	80	230	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	380	380	0	0.0%	0	10	10	Bachelor's degree	None	None
13-1081	Logisticians	1,710	1,820	100	3.0%	50	20	70	Bachelor's degree	None	None
13-1111	Management Analysts	6,460	6,990	530	4.1%	270	90	350	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	960	1,050	90	4.8%	50	10	60	Bachelor's degree	None	None
13-1131	Fundraisers	960	1,000	40	1.9%	20	20	40	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	510	540	30	2.9%	10	10	20	Bachelor's degree	None	None
13-1151	Training and Development Specialists	3,210	3,440	220	3.5%	110	50	160	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5,340	6,000	660	6.1%	330	70	390	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	7,220	7,490	270	1.9%	140	90	220	High school diploma or equivalent	None	None
13-2000	Financial Specialists	29,830	32,090	2,250	3.8%	1,140	710	1,850			
13-2011	Accountants and Auditors	12,500	13,610	1,110	4.5%	560	360	920	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	930	980	40	2.3%	20	10	30	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	400	410	20	2.0%	10	10	20	Bachelor's degree	None	None
13-2041	Credit Analysts	1,080	1,180	80	3.6%	40	30	70	Bachelor's degree	None	None
13-2051	Financial Analysts	2,130	2,280	140	3.4%	70	50	120	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,840	1,980	140	3.8%	70	30	100	Bachelor's degree	None	None
13-2053	Insurance Underwriters	310	320	10	1.4%	0	10	10	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	450	470	30	3.1%	10	10	30	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Credit Counselors	720	790	80	5.4%	40	10	50	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	5,340	5,760	420	3.9%	210	100	310	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	2,000	1,970	-20	-0.5%	0	70	70	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	990	1,140	160	8.1%	80	20	100	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	1,170	1,220	50	2.1%	30	10	30	Bachelor's degree	None	Moderate-term on-the-job training
15-0000	Computer and Mathematical Occupations	41,970	45,650	3,680	4.4%	1,840	630	2,470			
15-1100	Computer Occupations	40,930	44,520	3,600	4.4%	1,800	600	2,400			
15-1111	Computer and Information Research Scientists	610	650	40	3.0%	20	10	30	Doctoral or professional degree	None	None
15-1121	Computer Systems Analysts	3,840	4,180	340	4.4%	170	50	220	Bachelor's degree	None	None
15-1122	Information Security Analysts	680	760	80	6.2%	40	10	50	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	5,940	6,390	450	3.8%	220	150	380	Bachelor's degree	None	None
15-1132	Software Developers, Applications	7,610	8,420	810	5.3%	410	80	490	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	3,690	4,060	370	5.0%	190	40	230	Bachelor's degree	None	None
15-1134	Web Developers	2,610	2,870	260	4.9%	130	40	160	Associate's degree	None	None
15-1141	Database Administrators	1,090	1,180	90	4.2%	50	20	60	Bachelor's degree	Less than 5 years	None
15-1142	Network and Computer Systems Administrators	3,660	3,910	250	3.4%	130	50	180	Bachelor's degree	None	None
15-1143	Computer Network Architects	640	700	60	4.4%	30	10	40	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	6,970	7,630	670	4.8%	330	100	430	Some college, no degree	None	Moderate-term on-the-job training
15-1152	Computer Network Support Specialists	1,700	1,810	110	3.2%	50	20	80	Associate's degree	None	None
15-1199	Computer Occupations, All Other	1,890	1,970	80	2.1%	40	30	70	Bachelor's degree	None	None
15-2000	Mathematical Science Occupations	1,040	1,130	80	4.0%	40	20	70			
15-2011	Actuaries	160	170	10	2.2%	0	0	10	Bachelor's degree	None	Long-term on-the-job training
15-2031	Operations Research Analysts	690	750	60	4.2%	30	10	40	Bachelor's degree	None	None
15-2041	Statisticians	190	200	20	4.6%	10	10	10	Master's degree	None	None

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17-0000	Architecture and Engineering Occupations	27,350	28,360	1,010	1.9%	520	610	1,120			
17-1000	Architects, Surveyors, and Cartographers	1,700	1,770	80	2.2%	40	30	70			
17-1011	Architects, Except Landscape and Naval	820	870	40	2.6%	20	20	40	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	170	180	10	2.7%	0	0	10	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	220	240	10	2.9%	10	0	10	Bachelor's degree	None	None
17-1022	Surveyors	480	500	10	1.2%	10	10	10	Bachelor's degree	Less than 5 years	None
17-2000	Engineers	17,300	18,010	700	2.0%	360	430	790			
17-2011	Aerospace Engineers	970	1,040	70	3.8%	40	20	50	Bachelor's degree	None	None
17-2031	Biomedical Engineers	480	540	60	6.6%	30	10	40	Bachelor's degree	None	None
17-2041	Chemical Engineers	270	270	0	0.6%	0	10	10	Bachelor's degree	None	None
17-2051	Civil Engineers	3,270	3,460	190	2.9%	100	70	170	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	1,290	1,280	-10	-0.4%	0	30	30	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,950	2,010	70	1.7%	30	40	70	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,830	1,860	30	0.9%	20	40	60	Bachelor's degree	None	None
17-2081	Environmental Engineers	480	500	20	2.4%	10	10	20	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	240	250	10	2.1%	10	10	10	Bachelor's degree	None	None
17-2112	Industrial Engineers	1,940	2,020	90	2.3%	40	60	100	Bachelor's degree	None	None
17-2131	Materials Engineers	430	450	20	2.1%	10	10	20	Bachelor's degree	None	None
17-2141	Mechanical Engineers	3,240	3,390	140	2.2%	70	110	180	Bachelor's degree	None	None
17-2171	Petroleum Engineers	220	210	-10	-2.1%	0	10	10	Bachelor's degree	None	None
17-2199	Engineers, All Other	490	510	20	1.7%	10	10	20	Bachelor's degree	None	None
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	8,350	8,580	230	1.4%	120	150	260			
17-3011	Architectural and Civil Drafters	2,050	2,090	30	0.8%	20	30	50	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	290	300	10	1.7%	10	0	10	Associate's degree	None	None
17-3013	Mechanical Drafters	710	730	20	1.4%	10	10	20	Associate's degree	None	None
17-3019	Drafters, All Other	170	180	10	4.2%	10	0	10	Associate's degree	None	None
17-3022	Civil Engineering Technicians	590	610	20	1.5%	10	10	20	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,790	1,830	40	1.0%	20	40	50	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	310	330	20	3.4%	10	10	20	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	720	740	20	1.6%	10	10	30	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	680	700	30	1.9%	10	10	30	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	390	390	10	0.6%	0	10	10	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	400	410	20	2.1%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training

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19-0000	Life, Physical, and Social Science Occupations	11,540	12,040	500	2.2%	250	340	600			
19-1000	Life Scientists	2,050	2,130	80	1.8%	40	60	90			
19-1012	Food Scientists and Technologists	100	100	0	0.0%	0	0	0	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	90	90	0	0.0%	0	0	0	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	220	230	10	4.5%	10	10	10	Doctoral or professional degree	None	None
19-1022	Microbiologists	170	180	10	5.9%	10	10	10	Bachelor's degree	None	None
19-1023	Zoologists and Wildlife Biologists	330	340	10	3.0%	0	10	10	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	270	270	0	0.0%	0	10	10	Bachelor's degree	None	None
19-1031	Conservation Scientists	340	350	10	2.9%	0	10	10	Bachelor's degree	None	None
19-1032	Foresters	80	80	0	0.0%	0	0	0	Bachelor's degree	None	None
19-1041	Epidemiologists	80	90	10	12.5%	0	0	0	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	350	370	20	5.7%	10	10	20	Doctoral or professional degree	None	None
19-2000	Physical Scientists	2,300	2,400	100	2.2%	50	60	110			
19-2021	Atmospheric and Space Scientists	130	140	10	7.7%	10	0	10	Bachelor's degree	None	None
19-2031	Chemists	720	760	40	5.6%	20	20	40	Bachelor's degree	None	None
19-2032	Materials Scientists	120	120	0	0.0%	0	0	10	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	710	750	40	5.6%	20	20	40	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	360	370	10	2.8%	0	10	10	Bachelor's degree	None	None
19-2043	Hydrologists	60	60	0	0.0%	0	0	0	Master's degree	None	None
19-2099	Physical Scientists, All Other	170	170	0	0.0%	0	0	0	Bachelor's degree	None	None
19-3000	Social Scientists and Related Workers	2,900	3,040	150	2.5%	70	80	150			
19-3011	Economists	50	50	0	0.0%	0	0	0	Master's degree	None	None
19-3022	Survey Researchers	240	250	10	4.2%	10	0	10	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	1,550	1,620	70	4.5%	30	40	80	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	90	90	0	0.0%	0	0	10	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	510	530	20	3.9%	10	20	30	Master's degree	None	None
19-3091	Anthropologists and Archeologists	180	190	10	5.6%	10	0	10	Master's degree	None	None
19-3092	Geographers	70	80	10	14.3%	10	0	10	Bachelor's degree	None	None
19-3093	Historians	100	110	10	10.0%	0	0	10	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	110	110	0	0.0%	0	0	0	Bachelor's degree	None	None
19-4000	Life, Physical, and Social Science Technicians	4,300	4,470	170	2.0%	90	150	240			
19-4021	Biological Technicians	630	670	40	6.3%	20	20	40	Bachelor's degree	None	None
19-4031	Chemical Technicians	1,150	1,220	80	7.0%	40	30	70	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	150	140	-10	-6.7%	0	10	10	Associate's degree	None	Moderate-term on-the-job training
19-4061	Social Science Research Assistants	180	190	10	5.6%	10	10	10	Associate's degree	None	None
19-4091	Environmental Science and Protection Technicians, Including Health	420	440	20	4.8%	10	20	30	Associate's degree	None	None
19-4092	Forensic Science Technicians	180	180	0	0.0%	0	10	10	Bachelor's degree	None	Moderate-term on-the-job training
19-4093	Forest and Conservation Technicians	1,200	1,200	0	0.0%	0	50	50	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All Other	280	290	10	3.6%	10	10	20	Associate's degree	None	None

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21-0000	Community and Social Service Occupations	21,290	22,290	1,000	2.4%	500	470	970			
	<i>Counselors, Social Workers, and Other Community and Social Service Specialists</i>										
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	20,360	21,340	980	2.4%	490	450	940			
21-1011	Substance Abuse and Behavioral Disorder Counselors	440	460	30	3.3%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Guidance, School, and Vocational Counselors	3,100	3,240	140	2.2%	70	60	130	Master's degree	None	None
21-1013	Marriage and Family Therapists	270	290	20	2.7%	10	10	10	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	1,230	1,310	80	3.0%	40	30	60	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	1,220	1,270	50	2.1%	30	20	50	Master's degree	None	None
21-1019	Counselors, All Other	450	460	10	0.6%	0	10	10	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	1,390	1,470	80	2.8%	40	30	70	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	1,240	1,320	80	3.4%	40	30	70	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	1,760	1,860	100	2.8%	50	40	90	Bachelor's degree	None	None
21-1029	Social Workers, All Other	490	500	10	0.5%	0	10	10	Bachelor's degree	None	None
21-1091	Health Educators	380	400	20	8.1%	10	10	20	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	500	500	0	0.0%	0	10	10	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	7,250	7,600	360	2.5%	180	180	350	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	550	570	20	2.0%	10	10	30	High school diploma or equivalent	None	Short-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	100	100	0	2.0%	0	0	0	Master's degree	None	None
21-2000	Religious Workers	930	950	20	0.9%	10	20	30			
21-2011	Clergy	490	500	10	1.4%	10	10	20	Bachelor's degree	None	Moderate-term on-the-job training
23-0000	Legal Occupations	9,310	9,730	420	2.2%	210	140	350			
	<i>Lawyers, Judges, and Related Workers</i>										
23-1000	Lawyers, Judges, and Related Workers	6,220	6,490	270	2.2%	130	90	230			
23-1011	Lawyers	5,560	5,820	260	2.3%	130	80	210	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	340	340	0	0.6%	0	10	10	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	150	150	0	0.0%	0	0	0	Doctoral or professional degree	Less than 5 years	Short-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	140	140	0	1.4%	0	0	0	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	Legal Support Workers	3,090	3,240	150	2.4%	70	50	120			
23-2011	Paralegals and Legal Assistants	2,060	2,160	110	2.6%	50	30	80	Associate's degree	None	None
23-2091	Court Reporters	90	100	10	4.0%	0	0	10	Postsecondary non-degree award	None	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	770	800	30	1.9%	20	10	30	High school diploma or equivalent	None	Short-term on-the-job training
23-2099	Legal Support Workers, All Other	170	170	10	1.5%	0	0	0	High school diploma or equivalent	None	Short-term on-the-job training

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25-0000	Education, Training, and Library Occupations	87,890	91,770	3,880	2.2%	1,940	1,710	3,650			
25-1000	Postsecondary Teachers	17,910	19,210	1,300	3.6%	650	250	900			
25-1011	Business Teachers, Postsecondary	900	960	60	3.4%	30	10	40	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	660	710	40	3.3%	20	10	30	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	520	550	30	3.3%	20	10	20	Doctoral or professional degree	None	None
25-1031	Architecture Teachers, Postsecondary	70	80	10	4.2%	0	0	0	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	450	480	30	3.6%	20	10	20	Doctoral or professional degree	None	None
25-1041	Agricultural Sciences Teachers, Postsecondary	90	100	10	3.3%	0	0	10	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	660	720	60	4.1%	30	10	40	Doctoral or professional degree	None	None
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	190	200	10	3.7%	10	0	10	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	170	190	10	3.7%	10	0	10	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	50	50	0	3.3%	0	0	0	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	110	110	10	3.3%	0	0	10	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	60	70	0	3.2%	0	0	0	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	160	180	10	4.0%	10	0	10	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	350	380	30	4.0%	10	10	20	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	190	200	10	3.8%	10	0	10	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	2,580	2,880	290	5.6%	150	40	180	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	710	780	70	4.9%	30	10	40	Master's degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	600	650	50	3.8%	20	10	30	Doctoral or professional degree	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	210	220	10	2.9%	10	0	10	Doctoral or professional degree	None	None
25-1112	Law Teachers, Postsecondary	190	210	20	4.1%	10	0	10	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,180	1,270	90	3.7%	40	20	60	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	440	470	20	2.7%	10	10	20	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	330	360	30	3.9%	10	0	20	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	220	230	20	3.7%	10	0	10	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	360	380	20	2.8%	10	10	20	Doctoral or professional degree	None	None
25-1191	Graduate Teaching Assistants	640	690	50	3.6%	20	10	30	Bachelor's degree	None	None
25-1192	Home Economics Teachers, Postsecondary	220	230	20	3.5%	10	0	10	Master's degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	430	460	30	3.7%	20	10	20	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	2,540	2,610	70	1.4%	40	40	70	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	1,160	1,240	80	3.6%	40	20	60	Doctoral or professional degree	None	None
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	37,010	38,350	1,340	1.8%	670	850	1,520			
25-2011	Preschool Teachers, Except Special Education	2,630	2,750	120	2.3%	60	70	130	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	1,330	1,380	60	2.1%	30	40	60	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Education	16,180	16,830	640	2.0%	320	350	670	Bachelor's degree	None	Internship/residency
25-2022	Middle School Teachers, Except Special and Career/Technical Education	5,070	5,270	200	2.0%	100	110	210	Bachelor's degree	None	Internship/residency
25-2023	Career/Technical Education Teachers, Middle School	80	80	0	1.2%	0	0	0	Bachelor's degree	Less than 5 years	Internship/residency
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	7,510	7,710	210	1.4%	100	210	310	Bachelor's degree	None	Internship/residency
25-2032	Career/Technical Education Teachers, Secondary School	500	520	10	1.3%	10	10	20	Bachelor's degree	Less than 5 years	Internship/residency
25-2052	Special Education Teachers, Kindergarten and Elementary School	2,130	2,190	60	1.3%	30	30	60	Bachelor's degree	None	Internship/residency
25-2053	Special Education Teachers, Middle School	560	580	20	1.3%	10	10	20	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	950	970	20	1.3%	10	20	30	Bachelor's degree	None	Internship/residency
25-3000	Other Teachers and Instructors	15,200	15,870	670	2.2%	330	250	580			
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	320	340	20	2.6%	10	10	10	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	3,980	4,250	260	3.3%	130	60	200	High school diploma or equivalent	Less than 5 years	None
25-3098	Substitute Teachers	6,030	6,190	160	1.3%	80	100	180	Bachelor's degree	None	Internship/residency
25-3099	Teachers and Instructors, All Other	4,860	5,090	230	2.4%	120	80	190	Bachelor's degree	None	Internship/residency
25-4000	Librarians, Curators, and Archivists	1,850	1,930	80	2.1%	40	70	110			
25-4011	Archivists	40	40	0	1.2%	0	0	0	Master's degree	None	None
25-4012	Curators	110	120	10	2.3%	0	0	0	Master's degree	None	None
25-4021	Librarians	870	900	40	2.1%	20	20	40	Master's degree	None	None
25-4031	Library Technicians	790	830	30	2.0%	20	50	60	Postsecondary non-degree award	None	None
25-9000	Other Education, Training, and Library Occupations	15,920	16,410	500	1.6%	250	300	550			
25-9011	Audio-Visual and Multimedia Collections Specialists	340	340	0	0.4%	0	0	0	Bachelor's degree	Less than 5 years	None
25-9021	Farm and Home Management Advisors	110	120	10	3.7%	0	0	0	Master's degree	None	None
25-9031	Instructional Coordinators	1,670	1,750	80	2.4%	40	10	50	Master's degree	5 years or more	None
25-9041	Teacher Assistants	13,430	13,820	390	1.5%	200	290	480	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	370	380	10	1.4%	10	0	10	Bachelor's degree	None	None

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27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	23,830	25,170	1,350	2.8%	670	530	1,200			
27-1000	Art and Design Workers	8,450	8,910	470	2.8%	230	220	450			
27-1011	Art Directors	540	570	30	2.7%	10	10	30	Bachelor's degree	5 years or more	None
27-1012	Craft Artists	290	310	20	2.8%	10	10	20	High school diploma or equivalent	None	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	600	640	40	8.1%	20	10	30	High school diploma or equivalent	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	560	590	30	8.0%	20	10	30	Bachelor's degree	None	Moderate-term on-the-job training
27-1019	Artists and Related Workers, All Other	120	120	0	1.7%	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
27-1021	Commercial and Industrial Designers	460	480	20	2.4%	10	10	20	Bachelor's degree	None	None
27-1022	Fashion Designers	120	130	0	1.6%	0	0	10	Bachelor's degree	None	None
27-1023	Floral Designers	1,160	1,230	60	2.8%	30	30	60	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	3,290	3,480	180	2.8%	90	90	180	Bachelor's degree	None	None
27-1025	Interior Designers	310	330	20	2.2%	10	10	20	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	800	840	40	2.4%	20	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	130	130	0	2.2%	0	0	10	Bachelor's degree	None	None
27-1029	Designers, All Other	60	70	10	4.8%	0	0	10	Bachelor's degree	None	None
27-2000	Entertainers and Performers, Sports and Related Workers	5,120	5,420	300	2.9%	150	150	300			
27-2011	Actors	340	360	20	8.1%	10	10	20	Some college, no degree	None	Long-term on-the-job training
27-2012	Producers and Directors	650	680	40	2.8%	20	20	40	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	250	260	20	8.1%	10	10	20	High school diploma or equivalent	None	Long-term on-the-job training
27-2022	Coaches and Scouts	1,940	2,060	120	8.1%	60	60	120	Bachelor's degree	None	None
27-2023	Umpires, Referees, and Other Sports Officials	480	500	20	2.0%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2031	Dancers	200	220	20	3.8%	10	10	10	High school diploma or equivalent	None	Long-term on-the-job training
27-2032	Choreographers	60	70	10	4.8%	0	0	10	High school diploma or equivalent	5 years or more	Long-term on-the-job training
27-2041	Music Directors and Composers	170	180	10	2.0%	0	0	10	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	780	820	40	2.8%	20	20	40	High school diploma or equivalent	None	Long-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	260	270	20	3.3%	10	0	10	High school diploma or equivalent	None	None
27-3000	Media and Communication Workers	6,850	7,230	380	2.8%	190	130	320			
27-3011	Radio and Television Announcers	420	430	10	1.2%	10	10	10	Bachelor's degree	None	None
27-3021	Broadcast News Analysts	70	70	0	2.3%	0	0	0	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	570	580	10	0.8%	0	20	20	Bachelor's degree	None	None
27-3031	Public Relations Specialists	2,090	2,190	100	2.3%	50	30	70	Bachelor's degree	None	None
27-3041	Editors	860	920	60	8.2%	30	20	50	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	840	900	60	3.5%	30	20	50	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,150	1,220	70	2.9%	30	20	60	Bachelor's degree	None	Moderate-term on-the-job training
27-3091	Interpreters and Translators	770	850	80	4.9%	40	10	50	Bachelor's degree	None	Short-term on-the-job training
27-3099	Media and Communication Workers, All Other	40	40	0	2.4%	0	0	0	High school diploma or equivalent	None	Short-term on-the-job training
27-4000	Media and Communication Equipment Workers	3,410	3,610	200	3.0%	100	30	140			
27-4011	Audio and Video Equipment Technicians	630	660	40	2.8%	20	10	30	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	210	220	10	1.9%	0	0	10	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	150	160	10	3.5%	10	0	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,390	1,470	80	2.8%	40	10	50	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	310	330	20	2.4%	10	0	10	Bachelor's degree	None	None
27-4032	Film and Video Editors	630	690	60	4.6%	30	0	30	Bachelor's degree	None	None
27-4099	Media and Communication Equipment Workers, All Other	70	70	0	-0.7%	0	0	0	High school diploma or equivalent	None	Short-term on-the-job training

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29-0000	Healthcare Practitioners and Technical Occupations	68,430	72,580	4,150	3.0%	2,080	1,250	3,330			
29-1000	Health Diagnosing and Treating Practitioners	41,190	43,610	2,420	2.9%	1,210	770	1,980			
29-1011	Chiropractors	480	500	20	2.3%	10	10	20	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,630	1,690	60	1.9%	30	40	70	Doctoral or professional degree	None	None
29-1022	Oral and Maxillofacial Surgeons	70	80	0	2.1%	0	0	0	Doctoral or professional degree	None	Internship/residency
29-1029	Dentists, All Other Specialists	120	120	0	0.9%	0	0	0	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	650	690	40	3.2%	20	10	30	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	260	280	20	3.3%	10	10	20	Doctoral or professional degree	None	None
29-1051	Pharmacists	2,650	2,840	190	3.6%	90	60	160	Doctoral or professional degree	None	None
29-1061	Anesthesiologists	460	490	20	2.3%	10	10	20	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	800	830	30	1.7%	10	20	30	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	450	470	10	1.5%	10	10	20	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	250	260	10	1.6%	0	10	10	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	180	190	10	1.6%	0	0	10	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	360	380	20	2.5%	10	10	20	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	360	370	20	2.2%	10	10	20	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	2,440	2,550	110	2.2%	50	60	110	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	1,140	1,220	80	3.6%	40	20	60	Master's degree	None	None
29-1081	Podiatrists	130	140	10	1.9%	0	0	0	Doctoral or professional degree	None	Internship/residency
29-1122	Occupational Therapists	660	710	40	3.2%	20	0	30	Master's degree	None	None
29-1123	Physical Therapists	1,790	1,910	130	3.5%	60	40	110	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	170	180	10	3.2%	10	0	10	Associate's degree	None	None
29-1125	Recreational Therapists	320	330	10	2.2%	10	10	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	820	870	50	3.1%	30	10	30	Associate's degree	None	None
29-1127	Speech-Language Pathologists	940	990	50	2.4%	20	10	40	Master's degree	None	None
29-1128	Exercise Physiologists	130	140	10	2.3%	0	0	10	Bachelor's degree	None	None
29-1131	Veterinarians	660	710	50	3.7%	20	20	40	Doctoral or professional degree	None	None
29-1141	Registered Nurses	20,910	22,190	1,280	3.1%	640	350	1,000	Associate's degree	None	None
29-1151	Nurse Anesthetists	170	180	10	2.4%	0	0	10	Master's degree	None	None
29-1171	Nurse Practitioners	1,770	1,890	120	3.5%	60	30	90	Master's degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All Other	180	180	10	1.7%	0	0	10	Master's degree	None	None
29-2000	Health Technologists and Technicians	25,450	27,080	1,630	3.2%	820	450	1,260			
29-2011	Medical and Clinical Laboratory Technologists	2,200	2,310	110	2.5%	60	50	110	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	1,710	1,820	120	3.4%	60	40	100	Associate's degree	None	None
29-2021	Dental Hygienists	2,420	2,550	130	2.6%	60	50	120	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	160	160	10	2.9%	0	0	10	Associate's degree	None	None
29-2034	Radiologic Technologists	1,620	1,710	90	2.8%	50	20	60	Associate's degree	None	None
29-2041	Emergency Medical Technicians and Paramedics	2,640	2,760	120	2.3%	60	70	130	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	510	540	30	3.2%	20	0	20	Associate's degree	None	None
29-2052	Pharmacy Technicians	3,570	3,880	310	4.3%	150	30	180	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	890	930	30	1.8%	20	10	20	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	130	130	10	2.4%	0	0	0	Associate's degree	None	Moderate-term on-the-job training
29-2056	Veterinary Technologists and Technicians	980	1,080	100	5.2%	50	10	60	Associate's degree	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	2,580	2,750	160	3.2%	80	60	140	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	2,270	2,400	130	2.9%	70	60	120	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	900	970	70	3.9%	40	20	60	High school diploma or equivalent	None	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	80	80	10	5.3%	0	0	0	Master's degree	None	Internship/residency
29-2099	Health Technologists and Technicians, All Other	400	430	30	3.1%	10	0	20	High school diploma or equivalent	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations	1,800	1,890	100	2.7%	50	40	90			
29-9011	Occupational Health and Safety Specialists	820	850	30	1.9%	20	20	30	Bachelor's degree	None	Short-term on-the-job training
29-9091	Athletic Trainers	200	210	20	4.1%	10	0	10	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	620	660	40	3.2%	20	10	30	Bachelor's degree	None	None

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31-0000	Healthcare Support Occupations	35,290	37,350	2,050	2.9%	1,030	610	1,640			
31-1000	Nursing, Psychiatric, and Home Health Aides	16,050	17,110	1,060	3.3%	530	280	810			
31-1011	Home Health Aides	4,020	4,350	330	4.1%	160	70	230	Less than high school	None	Short-term on-the-job training
31-1013	Psychiatric Aides	260	270	10	1.8%	0	0	10	High school diploma or equivalent	None	Short-term on-the-job training
31-1014	Nursing Assistants	11,310	12,000	690	3.1%	350	200	540	Postsecondary non-degree award	None	None
31-1015	Orderlies	470	500	30	2.9%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	1,670	1,800	130	3.8%	60	30	100			
31-2011	Occupational Therapy Assistants	130	140	10	4.1%	10	0	10	Associate's degree	None	None
31-2022	Physical Therapist Aides	1,040	1,120	80	3.7%	40	20	60	High school diploma or equivalent	None	Short-term on-the-job training
31-9000	Other Healthcare Support Occupations	17,570	18,440	870	2.5%	440	290	730			
31-9011	Massage Therapists	1,920	2,050	130	3.4%	60	20	80	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	5,050	5,240	190	1.9%	100	100	190	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	7,410	7,790	380	2.6%	190	130	320	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	120	130	10	3.7%	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	870	910	50	2.6%	20	20	40	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	280	300	10	2.5%	10	10	10	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	270	290	20	3.5%	10	0	10	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1,090	1,150	60	2.8%	30	20	50	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	560	580	20	2.0%	10	10	20	High school diploma or equivalent	None	None
33-0000	Protective Service Occupations	26,460	27,570	1,120	2.1%	560	820	1,380			
33-1000	Supervisors of Protective Service Workers	2,840	2,950	110	1.8%	50	90	140			
33-1011	First-Line Supervisors of Correctional Officers	260	270	10	1.4%	0	10	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors of Police and Detectives	1,470	1,520	50	1.7%	30	50	70	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	560	580	20	1.8%	10	20	30	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors of Protective Service Workers, All Other	560	580	30	2.5%	10	10	30	High school diploma or equivalent	Less than 5 years	None
33-2000	Fire Fighting and Prevention Workers	3,510	3,640	130	1.8%	60	90	150			
33-2011	Firefighters	3,440	3,570	130	1.8%	60	90	150	Postsecondary non-degree award	None	Long-term on-the-job training
33-3000	Law Enforcement Workers	8,550	8,820	280	1.6%	140	250	380			
33-3011	Bailiffs	80	90	0	1.2%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	2,490	2,550	60	1.2%	30	60	90	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	350	360	10	1.3%	0	10	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3041	Parking Enforcement Workers	60	70	0	2.3%	0	0	0	High school diploma or equivalent	None	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	5,520	5,720	200	1.8%	100	170	270	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9000	Other Protective Service Workers	11,560	12,170	610	2.6%	300	400	710			
33-9011	Animal Control Workers	210	210	10	1.7%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	160	170	10	2.5%	0	10	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9032	Security Guards	6,380	6,810	420	3.3%	210	90	300	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	1,860	1,920	60	1.5%	30	30	50	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,610	1,680	70	2.1%	30	170	200	High school diploma or equivalent	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	460	480	10	1.5%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	880	910	30	1.8%	20	90	110	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations	102,920	110,090	7,170	3.5%	3,580	4,700	8,280			
35-1000	Supervisors of Food Preparation and Serving Workers	8,120	8,730	610	3.8%	300	230	530			
35-1011	Chefs and Head Cooks	1,040	1,110	60	3.0%	30	20	50	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,080	7,620	550	3.9%	270	210	490	High school diploma or equivalent	Less than 5 years	None
35-2000	Cooks and Food Preparation Workers	21,770	23,210	1,430	3.3%	720	510	1,230			
35-2011	Cooks, Fast Food	4,850	5,110	260	2.7%	130	100	230	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	2,430	2,570	130	2.8%	70	50	120	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	7,590	8,220	630	4.1%	310	150	470	Less than high school	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	810	840	30	2.8%	20	10	30	Less than high school	None	Short-term on-the-job training
35-2021	Food Preparation Workers	6,250	6,820	370	3.0%	190	200	390	Less than high school	None	Short-term on-the-job training
35-3000	Food and Beverage Serving Workers	61,110	65,480	4,370	3.6%	2,180	3,110	5,300			
35-3011	Bartenders	3,040	3,270	230	3.8%	110	110	220	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	34,030	36,710	2,680	3.9%	1,340	1,630	2,970	Less than high school	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	3,510	3,650	140	2.0%	70	340	410	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	19,200	20,430	1,230	3.2%	610	1,000	1,610	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,340	1,420	90	3.3%	40	40	80	Less than high school	None	Short-term on-the-job training
35-9000	Other Food Preparation and Serving Related Workers	11,920	12,680	760	3.2%	380	850	1,230			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,780	4,010	240	3.1%	120	210	330	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	4,720	5,020	300	3.2%	150	270	420	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3,390	3,610	220	3.2%	110	360	470	Less than high school	None	None
35-9099	Food Preparation and Serving Related Workers, All Other	40	40	0	2.5%	0	0	0	Less than high school	None	Short-term on-the-job training
37-0000	Occupations	49,250	52,140	2,900	2.9%	1,450	950	2,400			

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37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	3,920	4,140	220	2.8%	110	60	170			
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,290	2,410	130	2.8%	60	50	110	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,630	1,730	100	2.9%	50	10	60	High school diploma or equivalent	Less than 5 years	None
37-2000	Building Cleaning and Pest Control Workers	32,740	34,630	1,900	2.9%	950	570	1,520			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	20,530	21,670	1,140	2.8%	570	350	920	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	11,490	12,190	700	3.0%	350	210	560	Less than high school	None	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	370	390	30	3.8%	10	10	20	Less than high school	None	Short-term on-the-job training
37-2021	Pest Control Workers	350	380	30	3.8%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3000	Grounds Maintenance Workers	12,590	13,370	780	3.1%	390	320	710			
37-3011	Landscaping and Groundskeeping Workers	11,890	12,630	740	3.1%	370	300	670	Less than high school	None	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	280	290	10	2.5%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	270	290	20	3.6%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	150	160	10	2.0%	0	0	10	Less than high school	None	Short-term on-the-job training
39-0000	Personal Care and Service Occupations	45,600	48,190	2,590	2.8%	1,300	1,230	2,520			
39-1000	Supervisors of Personal Care and Service Workers	1,980	2,090	110	2.7%	50	30	90			
39-1021	First-Line Supervisors of Personal Service Workers	1,980	2,090	110	2.7%	50	30	90	High school diploma or equivalent	Less than 5 years	None
39-2000	Animal Care and Service Workers	2,550	2,720	170	3.3%	80	40	120			
39-2011	Animal Trainers	250	260	20	3.5%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	2,310	2,450	150	3.2%	70	30	100	Less than high school	None	Short-term on-the-job training
39-3000	Entertainment Attendants and Related Workers	6,110	6,450	340	2.8%	170	410	580			
39-3021	Motion Picture Projectionists	110	110	0	-0.9%	0	10	10	Less than high school	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	2,120	2,240	120	2.8%	60	160	220	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	3,670	3,880	210	2.9%	110	230	340	Less than high school	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	100	110	10	2.4%	0	10	10	High school diploma or equivalent	None	Short-term on-the-job training
39-4000	Funeral Service Workers	420	430	10	1.4%	10	10	20			
39-4011	Embalmers	60	60	0	0.0%	0	0	0	Postsecondary non-degree award	None	Short-term on-the-job training
39-4021	Funeral Attendants	210	220	10	1.4%	0	0	10	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	150	160	10	2.0%	0	0	10	Associate's degree	None	Long-term on-the-job training
39-5000	Personal Appearance Workers	7,940	8,350	410	2.6%	200	150	350			
39-5011	Barbers	180	190	10	2.5%	0	10	10	Postsecondary non-degree award	None	None
39-5012	Hairdressers, Hairstylists, and Cosmetologists	5,820	6,090	280	2.4%	140	130	270	Postsecondary non-degree award	None	None
39-5092	Manicurists and Pedicurists	1,060	1,110	60	2.7%	30	10	40	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	860	930	70	3.8%	30	10	40	Postsecondary non-degree award	None	None
39-6000	Baggage Porters, Bellhops, and Concierges	390	410	30	3.5%	10	10	20			
39-7000	Tour and Travel Guides	750	780	30	2.1%	20	40	50			
39-7011	Tour Guides and Escorts	590	610	20	2.0%	10	30	40	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7012	Travel Guides	160	170	10	2.5%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9000	Other Personal Care and Service Workers	25,460	26,960	1,500	2.9%	750	540	1,290			
39-9011	Childcare Workers	12,050	12,610	570	2.4%	280	360	650	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	5,330	5,820	490	4.6%	250	30	280	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	3,030	3,210	180	3.0%	90	30	130	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	3,130	3,290	160	2.5%	80	40	120	Bachelor's degree	None	None
39-9041	Residential Advisors	1,750	1,840	90	2.6%	50	80	120	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	180	190	10	1.9%	0	10	10	High school diploma or equivalent	None	Short-term on-the-job training

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41-0000	Sales and Related Occupations	157,020	165,490	8,470	2.7%	4,240	5,030	9,270			
41-1000	Supervisors of Sales Workers	16,430	17,300	870	2.6%	430	320	760			
41-1011	First-Line Supervisors of Retail Sales Workers	13,430	14,110	680	2.5%	340	280	630	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	3,010	3,190	180	3.0%	90	40	130	High school diploma or equivalent	Less than 5 years	None
41-2000	Retail Sales Workers	82,660	86,470	3,810	2.3%	1,910	3,480	5,390			
41-2011	Cashiers	30,010	31,140	1,130	1.9%	570	1,610	2,180	Less than high school	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	3,870	4,050	190	2.4%	90	110	210	Less than high school	None	Short-term on-the-job training
41-2022	Parts Salespersons	2,760	2,940	180	3.3%	90	60	150	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	46,020	48,330	2,310	2.5%	1,160	1,690	2,850	Less than high school	None	Short-term on-the-job training
41-3000	Sales Representatives, Services	22,240	23,910	1,670	3.8%	840	560	1,400			
41-3011	Advertising Sales Agents	1,340	1,390	50	1.9%	30	40	60	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	3,780	4,010	230	3.0%	110	90	200	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	2,810	2,980	170	3.1%	90	70	150	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	760	780	20	1.5%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	13,550	14,750	1,200	4.4%	600	360	960	High school diploma or equivalent	None	Short-term on-the-job training
41-4000	Sales Representatives, Wholesale and Manufacturing	20,950	22,100	1,150	2.8%	580	410	980			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5,390	5,750	360	3.4%	180	100	290	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	15,560	16,350	790	2.5%	390	300	700	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9000	Other Sales and Related Workers	14,740	15,710	970	3.3%	480	250	740			
41-9011	Demonstrators and Product Promoters	1,120	1,190	70	3.1%	40	30	70	High school diploma or equivalent	None	Short-term on-the-job training
41-9021	Real Estate Brokers	400	430	30	3.5%	10	0	20	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	5,100	5,380	280	2.7%	140	50	190	High school diploma or equivalent	None	Long-term on-the-job training
41-9031	Sales Engineers	460	490	30	3.4%	20	10	20	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	5,410	5,860	450	4.1%	220	130	350	Less than high school	None	Short-term on-the-job training
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	1,130	1,180	50	2.3%	30	10	40	High school diploma or equivalent	None	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	1,100	1,160	60	2.7%	30	20	50	High school diploma or equivalent	None	None

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43-0000	Office and Administrative Support Occupations	250,110	265,210	15,100	3.0%	7,580	5,490	13,070			
43-1000	Supervisors of Office and Administrative Support Workers	16,680	17,830	1,150	3.4%	570	390	960			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	16,680	17,830	1,150	3.4%	570	390	960	High school diploma or equivalent	Less than 5 years	None
43-2000	Communications Equipment Operators	1,070	1,130	60	2.8%	30	30	60			
43-2011	Switchboard Operators, Including Answering Service	490	500	10	0.8%	0	10	10	High school diploma or equivalent	None	Short-term on-the-job training
43-3000	Financial Clerks	33,190	35,660	2,480	3.7%	1,240	690	1,930			
43-3011	Bill and Account Collectors	3,730	4,040	310	4.2%	160	100	260	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	3,990	4,350	370	4.6%	180	60	250	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	16,560	17,700	1,140	3.4%	570	150	720	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	1,520	1,640	120	3.9%	60	30	90	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	5,600	6,010	410	3.7%	210	290	500	High school diploma or equivalent	None	Short-term on-the-job training
43-4000	Information and Record Clerks	81,520	87,330	5,800	3.6%	2,910	2,060	4,970			
43-4011	Brokerage Clerks	530	540	20	1.4%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	990	1,030	30	1.7%	20	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	530	570	40	3.4%	20	10	20	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	44,080	48,110	4,030	4.6%	2,010	1,160	3,170	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	1,880	1,950	70	1.8%	30	40	70	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,210	1,230	20	0.8%	10	30	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	3,440	3,680	240	3.6%	120	60	190	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	840	890	50	2.7%	20	40	60	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	2,930	3,180	250	4.2%	120	20	140	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	570	600	40	3.1%	20	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1,960	2,110	140	3.7%	70	50	120	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,090	1,130	40	1.9%	20	30	50	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	12,780	13,380	600	2.4%	300	360	660	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	4,330	4,370	50	0.5%	20	60	90	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,370	1,360	-20	-0.5%	0	30	30	High school diploma or equivalent	None	Short-term on-the-job training
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	35,150	36,610	1,460	2.1%	730	990	1,720			
43-5011	Cargo and Freight Agents	300	330	20	3.6%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	790	810	30	1.7%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	760	790	30	1.8%	10	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	1,920	2,050	130	3.3%	60	50	120	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	250	250	-10	-1.2%	0	10	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	580	600	30	2.2%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	2,180	2,300	130	2.9%	60	70	140	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	720	750	40	2.4%	20	10	20	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	3,400	3,520	120	1.8%	60	80	140	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	7,300	7,710	410	2.8%	210	190	400	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	16,310	16,810	510	1.6%	250	520	770	Less than high school	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	860	890	40	2.9%	20	10	30	High school diploma or equivalent	None	Short-term on-the-job training
43-6000	Secretaries and Administrative Assistants	40,610	42,930	2,320	2.9%	1,160	480	1,640			
43-6011	Executive Secretaries and Executive Administrative Assistants	7,520	7,780	260	1.8%	130	90	220	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	1,770	1,800	30	0.9%	20	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	6,230	6,680	440	3.6%	220	70	300	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	25,090	26,680	1,580	3.2%	790	300	1,090	High school diploma or equivalent	None	Short-term on-the-job training
43-9000	Other Office and Administrative Support Workers	41,890	43,720	1,830	2.2%	940	850	1,790			
43-9011	Computer Operators	580	580	0	0.1%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	3,430	3,390	-40	-0.6%	0	50	50	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	870	890	20	1.3%	10	0	20	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	110	120	0	1.8%	0	0	0	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,900	2,020	110	3.0%	60	50	110	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,660	1,720	60	1.9%	30	40	70	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	30,030	31,450	1,430	2.4%	710	620	1,330	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	530	550	20	1.8%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	250	260	10	1.8%	0	0	10	Bachelor's degree	None	None
43-9111	Statistical Assistants	200	210	10	2.3%	0	10	10	Bachelor's degree	None	None
43-9199	Office and Administrative Support Workers, All Other	2,340	2,540	200	4.4%	100	70	170	High school diploma or equivalent	None	Short-term on-the-job training

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45-0000	Farming, Fishing, and Forestry Occupations	9,690	9,890	200	1.0%	100	290	390			
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	370	380	10	1.5%	10	10	10			
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	370	380	10	1.5%	10	10	10	High school diploma or equivalent	Less than 5 years	None
45-2000	Agricultural Workers	9,110	9,300	190	1.0%	90	280	370			
45-2011	Agricultural Inspectors	150	160	0	0.7%	0	0	10	Bachelor's degree	None	Moderate-term on-the-job training
45-2021	Animal Breeders	90	90	0	1.7%	0	0	0	High school diploma or equivalent	Less than 5 years	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	270	270	0	0.6%	0	0	10	Less than high school	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	650	670	30	1.9%	10	20	30	Less than high school	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	7,000	7,120	120	0.9%	60	220	280	Less than high school	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	860	890	30	1.9%	20	30	40	Less than high school	None	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	100	100	0	1.0%	0	0	0	Less than high school	None	Short-term on-the-job training
45-3000	Fishing and Hunting Workers	120	120	0	-0.4%	0	0	0			
45-3011	Fishers and Related Fishing Workers	120	120	0	-0.4%	0	0	0	Less than high school	None	Moderate-term on-the-job training
45-4000	Forest, Conservation, and Logging Workers	90	90	0	0.6%	0	0	0			
45-4022	Logging Equipment Operators	50	50	0	0.0%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-0000	Construction and Extraction Occupations	85,650	92,700	7,050	4.1%	3,790	1,450	5,240			
47-1000	Supervisors of Construction and Extraction Workers	8,410	9,100	690	4.1%	340	100	440			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	8,410	9,100	690	4.1%	340	100	440	High school diploma or equivalent	5 years or more	None
47-2000	Construction Trades Workers	65,790	72,100	6,310	4.8%	3,150	1,120	4,270			
47-2021	Brickmasons and Blockmasons	1,180	1,360	180	7.4%	90	10	100	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	90	90	0	2.2%	0	0	0	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	11,270	12,510	1,240	5.5%	620	140	760	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	270	290	20	8.1%	10	10	10	Less than high school	None	Short-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	270	290	20	4.3%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	50	60	10	4.9%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	1,220	1,330	100	4.3%	50	20	70	Less than high school	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	3,340	3,710	370	5.8%	190	40	230	Less than high school	None	Moderate-term on-the-job training
47-2053	Terrazzo Workers and Finishers	50	60	10	5.6%	0	0	0	High school diploma or equivalent	None	Apprenticeship
47-2061	Construction Laborers	14,240	15,550	1,310	4.6%	650	300	950	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	270	280	10	2.6%	10	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	6,530	6,830	300	2.3%	150	140	290	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	2,370	2,600	230	4.9%	120	20	140	Less than high school	None	Moderate-term on-the-job training
47-2082	Tapers	410	450	40	5.0%	20	0	20	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	7,080	7,850	770	5.5%	390	130	520	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	570	620	50	4.0%	20	10	40	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	380	430	50	6.0%	20	10	30	Less than high school	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	350	410	60	8.0%	30	10	30	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	3,630	3,940	310	4.3%	160	60	210	Less than high school	None	Moderate-term on-the-job training
47-2142	Paperhangers	60	60	0	2.6%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2151	Pipelayers	600	630	30	2.8%	20	10	30	Less than high school	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5,190	5,790	600	5.8%	300	70	370	High school diploma or equivalent	None	Apprenticeship
47-2161	Plasterers and Stucco Masons	890	980	90	4.8%	40	10	50	Less than high school	None	Long-term on-the-job training
47-2181	Roofers	1,430	1,560	140	4.8%	70	30	100	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	2,040	2,200	170	4.1%	80	40	120	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	1,520	1,680	160	5.2%	80	50	130	High school diploma or equivalent	None	Apprenticeship
47-3000	Helpers, Construction Trades	3,440	3,870	430	6.3%	220	70	280			
47-3012	Helpers--Carpenters	520	590	60	6.1%	30	10	40	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	810	930	120	7.3%	60	20	80	High school diploma or equivalent	None	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	360	390	30	4.3%	20	10	20	Less than high school	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	470	530	60	5.9%	30	10	40	High school diploma or equivalent	None	Short-term on-the-job training
47-3016	Helpers--Roofers	350	390	40	5.1%	20	10	30	Less than high school	None	Short-term on-the-job training
47-4000	Other Construction and Related Workers	3,350	3,480	130	2.0%	80	50	130			
47-4011	Construction and Building Inspectors	830	870	40	2.5%	20	20	40	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4021	Elevator Installers and Repairers	370	410	50	6.1%	20	10	30	High school diploma or equivalent	None	Apprenticeship
47-4031	Fence Erectors	270	300	30	5.1%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	220	210	-10	-2.3%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	1,070	1,090	30	1.2%	10	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	330	320	-10	-1.5%	0	10	10	Less than high school	None	Moderate-term on-the-job training
47-4099	Construction and Related Workers, All Other	120	130	10	2.5%	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training

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47-5000	Extraction Workers	4,660	4,160	-510	-5.4%	0	110	110			
47-5011	Derrick Operators, Oil and Gas	180	160	-30	-7.1%	0	10	10	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	210	170	-30	-8.2%	0	10	10	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	780	650	-130	-8.3%	0	30	30	Less than high school	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	310	290	-30	-4.3%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	70	70	0	-1.4%	0	0	0	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5061	Roof Bolters, Mining	70	60	0	-2.9%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	1,540	1,330	-210	-6.7%	0	30	30	Less than high school	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	290	250	-40	-6.8%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-0000	Installation, Maintenance, and Repair Occupations	57,950	61,280	3,330	2.9%	1,670	1,320	2,990			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	4,950	5,190	240	2.4%	120	120	240			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	4,950	5,190	240	2.4%	120	120	240	High school diploma or equivalent	Less than 5 years	None
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	6,400	6,730	320	2.5%	160	120	280			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,050	1,090	40	1.9%	20	20	40	Some college, no degree	None	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	2,400	2,600	200	4.3%	100	40	140	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	220	220	0	0.2%	0	0	0	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	290	290	10	1.6%	0	10	10	Postsecondary non-degree award	None	Long-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	880	890	0	0.2%	0	20	20	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	370	380	10	1.1%	0	10	10	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	220	220	10	1.2%	0	0	0	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	230	240	0	0.4%	0	10	10	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	630	680	50	3.6%	20	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	19,510	20,650	1,130	2.9%	570	480	1,050			
49-3011	Aircraft Mechanics and Service Technicians	1,600	1,620	30	0.8%	10	40	50	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	1,740	1,870	130	3.7%	60	30	100	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	230	250	20	3.9%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	7,520	8,060	540	3.6%	270	190	460	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,340	3,490	150	2.3%	80	70	150	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	250	260	10	2.2%	10	10	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,370	2,450	80	1.8%	40	70	110	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	110	110	0	1.4%	0	0	0	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	170	180	10	3.6%	10	0	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	190	200	10	3.7%	10	0	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	200	210	10	2.3%	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3091	Bicycle Repairers	90	100	10	3.8%	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	140	150	10	3.7%	10	10	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,580	1,700	120	3.7%	60	60	120	High school diploma or equivalent	None	Short-term on-the-job training
49-9000	Other Installation, Maintenance, and Repair Occupations	27,090	28,710	1,630	3.0%	820	590	1,410			
49-9011	Mechanical Door Repairers	480	510	30	3.6%	20	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	280	270	-10	-0.9%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,030	3,350	310	6.1%	160	80	230	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	490	510	20	2.0%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	3,920	4,170	250	3.2%	130	110	230	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	1,110	1,180	70	3.1%	30	20	50	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9044	Millwrights	320	340	10	2.2%	10	10	10	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	960	990	30	1.6%	20	30	50	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,150	1,250	90	4.0%	50	30	70	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	730	800	70	4.7%	30	20	50	Associate's degree	None	Moderate-term on-the-job training
49-9063	Musical Instrument Repairers and Tuners	70	80	0	2.8%	0	0	0	High school diploma or equivalent	None	Apprenticeship
49-9069	Precision Instrument and Equipment Repairers, All Other	130	130	10	1.9%	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	11,270	11,810	540	2.4%	270	190	460	High school diploma or equivalent	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	300	330	30	4.3%	10	0	20	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	370	390	20	3.3%	10	10	20	High school diploma or equivalent	None	Long-term on-the-job training
49-9096	Riggers	230	240	20	3.3%	10	10	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,190	1,270	80	3.4%	40	40	80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	880	920	40	2.3%	20	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training

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51-0000	Production Occupations	92,340	96,340	4,000	2.2%	2,090	1,850	3,940			
51-1000	Supervisors of Production Workers	7,110	7,390	280	1.9%	140	100	240			
51-1011	First-Line Supervisors of Production and Operating Workers	7,110	7,390	280	1.9%	140	100	240	Postsecondary non-degree award	Less than 5 years	None
51-2000	Assemblers and Fabricators	19,120	20,130	1,010	2.6%	520	330	850			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	400	420	30	8.2%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	2,090	2,060	-30	-0.7%	0	30	30	High school diploma or equivalent	None	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	300	300	0	0.2%	0	0	0	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,470	1,540	70	2.3%	30	50	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	290	310	20	3.7%	10	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	12,590	13,360	780	3.1%	390	210	590	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	1,760	1,890	130	3.7%	60	30	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3000	Food Processing Workers	8,640	9,000	360	2.1%	180	220	400			
51-3011	Bakers	2,410	2,520	110	2.4%	60	60	110	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,050	1,100	50	2.2%	20	20	50	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,070	1,120	50	2.3%	30	20	50	Less than high school	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	1,150	1,180	30	1.4%	20	30	40	Less than high school	None	Short-term on-the-job training
51-3092	Food Batchmakers	2,190	2,280	80	1.8%	40	70	110	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	310	320	10	1.8%	10	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4000	Metal Workers and Plastic Workers	18,840	19,540	700	1.9%	350	370	720			
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	760	810	50	3.4%	30	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	80	80	10	3.9%	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	600	630	30	2.5%	20	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	90	90	0	0.6%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,430	1,470	40	1.5%	20	10	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	520	530	10	0.9%	0	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	70	60	-10	-0.8%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	4,050	4,220	170	2.1%	90	90	180	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	1,110	1,110	10	0.3%	0	20	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	50	50	0	0.0%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,710	1,770	60	1.6%	30	20	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,420	1,470	50	1.8%	30	30	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	320	340	10	2.0%	10	0	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	4,910	5,130	220	2.2%	110	120	230	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	230	240	20	3.3%	10	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	330	330	-10	-0.8%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	260	270	10	2.5%	10	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	180	190	10	1.4%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5100	Printing Workers	3,330	3,290	-40	-0.6%	0	60	60			
51-5111	Prepress Technicians and Workers	380	380	-10	-0.7%	0	10	10	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,930	1,920	-20	-0.4%	0	30	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	1,010	1,000	-20	-0.9%	0	20	20	High school diploma or equivalent	None	Short-term on-the-job training
51-6000	Textile, Apparel, and Furnishings Workers	5,240	5,430	190	1.8%	100	90	190			
51-6011	Laundry and Dry-Cleaning Workers	2,160	2,270	110	2.5%	50	60	120	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	300	310	10	1.7%	10	0	10	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	1,430	1,450	20	0.7%	10	10	20	Less than high school	None	Short-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	70	70	0	2.9%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	470	490	20	1.9%	10	10	20	Less than high school	None	Moderate-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	260	260	10	1.4%	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	70	70	0	1.4%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	190	200	10	3.0%	10	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	160	170	10	1.9%	0	0	0	High school diploma or equivalent	None	Short-term on-the-job training
51-7000	Woodworkers	3,380	3,740	360	5.3%	180	30	210			
51-7011	Cabinetmakers and Bench Carpenters	2,080	2,290	210	5.0%	110	20	120	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	240	270	30	5.2%	10	0	20	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	260	300	30	6.1%	20	10	20	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	720	810	90	6.2%	50	0	50	High school diploma or equivalent	None	Short-term on-the-job training
51-7099	Woodworkers, All Other	50	50	0	2.2%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2015	2017	Numeric Change	Average Annual Growth Rate	Growth	Replacements	Total	Education	Work Experience	Job Training
51-8000	Plant and System Operators	3,010	3,040	30	0.6%	40	100	130			
51-8012	Power Distributors and Dispatchers	130	140	0	1.1%	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	340	330	-10	-1.5%	0	10	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	190	200	0	0.8%	0	10	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	1,410	1,460	60	2.0%	30	40	70	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	130	140	10	8.0%	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	90	90	0	-1.1%	0	0	0	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	650	630	-30	-2.0%	0	20	20	High school diploma or equivalent	None	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	60	60	0	1.7%	0	0	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9000	Other Production Occupations	23,670	24,780	1,110	2.4%	590	550	1,140			
51-9011	Chemical Equipment Operators and Tenders	530	560	30	2.6%	10	20	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	190	200	10	1.5%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	210	210	0	0.0%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	380	390	10	1.3%	10	10	20	Less than high school	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,630	1,730	100	3.0%	50	50	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	60	60	0	0.8%	0	0	0	Less than high school	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	490	500	10	0.7%	0	10	10	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	470	500	30	2.7%	10	10	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	100	100	0	-0.5%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	4,590	4,800	220	2.3%	110	100	210	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	510	530	20	2.2%	10	10	20	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	700	760	60	4.4%	30	20	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	620	670	50	4.2%	30	20	50	High school diploma or equivalent	None	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	250	270	20	4.0%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	4,560	4,850	290	3.1%	140	110	250	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	930	980	50	2.7%	30	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	360	390	30	3.8%	10	10	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	220	230	10	1.8%	0	0	10	Less than high school	None	Moderate-term on-the-job training
51-9141	Semiconductor Processors	590	550	-40	-3.6%	0	10	10	Associate's degree	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	270	280	10	1.3%	0	10	10	High school diploma or equivalent	None	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	100	100	0	1.5%	0	0	0	Less than high school	None	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	140	150	10	2.5%	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9194	Etchers and Engravers	80	80	0	1.9%	0	0	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	620	650	30	2.0%	10	20	30	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	860	840	-20	-1.2%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers—Production Workers	2,890	3,020	130	2.3%	70	50	120	Less than high school	None	Short-term on-the-job training
51-9199	Production Workers, All Other	1,220	1,290	80	3.1%	40	30	70	High school diploma or equivalent	None	Moderate-term on-the-job training

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		2015	2017	Numeric Change	Average Annual Growth Rate	Growth	Replacements	Total	Education	Work Experience	Job Training
53-0000	Transportation and Material Moving Occupations	89,050	93,860	4,810	2.7%	2,450	1,990	4,440			
53-1000	Supervisors of Transportation and Material Moving Workers	3,680	3,900	220	2.9%	110	90	200			
53-1011	Aircraft Cargo Handling Supervisors	80	80	0	0.6%	0	0	0	High school diploma or equivalent	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	2,190	2,330	140	3.2%	70	60	130	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	1,420	1,490	80	2.6%	40	40	70	High school diploma or equivalent	Less than 5 years	None
53-2000	Air Transportation Workers	3,350	3,340	-10	-0.2%	10	80	90			
53-2011	Airline Pilots, Copilots, and Flight Engineers	1,250	1,240	-20	-0.6%	0	30	30	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	200	210	10	2.3%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2021	Air Traffic Controllers	410	410	10	0.9%	0	20	20	Associate's degree	None	Long-term on-the-job training
53-3000	Motor Vehicle Operators	40,820	43,170	2,350	2.9%	1,180	610	1,790			
53-3021	Bus Drivers, Transit and Intercity	960	1,000	40	2.1%	20	20	40	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	2,390	2,460	70	1.6%	40	40	80	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	4,470	4,810	340	3.8%	170	70	240	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	22,350	23,670	1,320	3.0%	660	340	1,000	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	8,380	8,830	440	2.6%	220	130	350	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	2,000	2,140	130	3.3%	70	20	80	Less than high school	None	Short-term on-the-job training
53-6000	Other Transportation Workers	2,260	2,410	140	3.2%	70	80	150			
53-6021	Parking Lot Attendants	490	520	30	2.9%	10	30	40	Less than high school	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	990	1,070	80	3.8%	40	30	70	Less than high school	None	Short-term on-the-job training
53-6051	Transportation Inspectors	240	240	10	1.7%	0	10	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6061	Transportation Attendants, Except Flight Attendants	190	200	10	2.3%	0	0	10	High school diploma or equivalent	None	Short-term on-the-job training
53-6099	Transportation Workers, All Other	310	330	20	3.2%	10	10	20	High school diploma or equivalent	None	Short-term on-the-job training
53-7000	Material Moving Workers	38,000	40,100	2,100	2.8%	1,080	1,090	2,170			
53-7021	Crane and Tower Operators	320	350	30	4.7%	20	10	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	780	830	50	3.1%	20	10	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7033	Loading Machine Operators, Underground Mining	90	90	0	-0.5%	0	0	0	Less than high school	None	Short-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	3,940	4,070	130	1.7%	70	90	150	Less than high school	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	3,940	4,200	260	3.3%	130	120	250	Less than high school	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	19,540	20,730	1,190	3.1%	600	620	1,220	Less than high school	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	1,130	1,210	70	3.3%	40	20	60	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	6,960	7,380	420	3.0%	210	190	400	Less than high school	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	60	50	0	-0.9%	0	0	0	Less than high school	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumps	50	50	0	0.9%	0	0	0	Less than high school	None	Moderate-term on-the-job training
53-7073	Wellhead Pumps	270	230	-40	-8.1%	0	10	10	Less than high school	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	610	600	-10	-0.6%	0	10	10	Less than high school	None	Short-term on-the-job training
53-7199	Material Moving Workers, All Other	90	90	0	0.5%	0	0	0	Less than high school	None	Short-term on-the-job training