

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2013 - 2015

Occupation Code	Occupation Title	2013 1st Qtr Estimated Employment	2015 1st Qtr Projected Employment	Employment Change 2013-2015		Average Annual Openings	Typical Education Needed for Entry	Work Experience in a Related Occupation	Typical On-the-Job Training Needed to Attain Competency in the Occupation
				Numeric	Percent				
00-0000	Total, All Occupations	1,749,930	1,780,070	30,130	1.72%	58,150			
11-1011	Chief Executives	7,270	7,270	10	0.12%	160	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	28,180	28,860	680	2.40%	780	Bachelor's degree	Less than 5 years	None
11-1031	Legislators	850	880	30	3.89%	30	Bachelor's degree	Less than 5 years	None
11-2011	Advertising and Promotions Managers	400	400	10	1.26%	10	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,530	1,560	30	1.90%	40	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	4,000	4,110	100	2.60%	130	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	820	820	10	0.61%	20	Bachelor's degree	5 years or more	None
11-3011	Administrative Services Managers	4,850	4,980	130	2.62%	130	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	2,710	2,740	30	1.14%	40	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	6,050	6,160	110	1.80%	160	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	3,180	3,240	60	1.76%	80	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	700	700	10	1.29%	20	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,340	1,360	20	1.27%	40	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	400	400	0	0.25%	10	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,340	1,370	30	2.08%	50	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	440	440	0	0.68%	10	Bachelor's degree	5 years or more	None
11-9021	Construction Managers	7,350	7,380	30	0.41%	110	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare C	1,150	1,160	10	0.87%	40	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondar	2,860	2,890	30	1.01%	90	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	1,760	1,780	10	0.68%	50	Master's degree	5 years or more	None
11-9039	Education Administrators, All Other	360	360	0	0.00%	10	Bachelor's degree	Less than 5 years	None
11-9051	Food Service Managers	4,420	4,380	-40	-0.91%	70	High school diploma or equivalent	Less than 5 years	None
11-9061	Funeral Service Managers	160	160	0	-1.27%	0	Associate's degree	Less than 5 years	None
11-9071	Gaming Managers	640	670	30	4.51%	30	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	810	810	-10	-0.86%	30	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	4,960	5,080	110	2.26%	160	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	290	290	0	1.40%	10	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	500	470	-20	-4.84%	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association M	5,110	5,130	20	0.37%	120	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1,580	1,600	20	1.33%	40	Bachelor's degree	5 years or more	None
11-9161	Emergency Management Directors	260	270	10	3.41%	10	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	4,940	4,880	-60	-1.21%	110	High school diploma or equivalent	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	320	330	0	0.93%	10	High school diploma or equivalent	None	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,020	1,050	30	2.55%	40	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and F	3,850	3,900	50	1.30%	100	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,450	4,490	30	0.70%	110	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	3,200	3,250	50	1.59%	70	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	1,920	2,010	90	4.58%	100	Bachelor's degree	None	None
13-1071	Human Resources Specialists	3,860	3,880	20	0.52%	70	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	1,470	1,390	-70	-4.91%	20	Bachelor's degree	None	None
13-1081	Logisticians	2,140	2,220	90	3.97%	60	Bachelor's degree	None	None
13-1111	Management Analysts	5,120	5,240	120	2.25%	130	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	1,070	1,110	40	4.02%	40	Bachelor's degree	None	None
13-1131	Fundraisers	820	810	-10	-1.10%	10	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialist	800	820	10	1.49%	20	Bachelor's degree	None	None
13-1151	Training and Development Specialists	3,530	3,660	140	3.83%	120	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	2,420	2,540	120	4.79%	90	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	7,550	7,560	10	0.11%	100	High school diploma or equivalent	None	None
13-2011	Accountants and Auditors	16,850	17,300	450	2.68%	710	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	1,010	1,020	10	1.09%	20	Bachelor's degree	None	Long-term on-the-job training

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				Numeric	Percent				
13-2031	Budget Analysts	750	760	10	1.34%	30	Bachelor's degree	None	None
13-2041	Credit Analysts	790	760	-30	-3.94%	20	Bachelor's degree	None	None
13-2051	Financial Analysts	1,420	1,460	40	2.90%	50	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,020	1,060	40	3.71%	30	Bachelor's degree	None	None
13-2053	Insurance Underwriters	740	740	-10	-1.08%	20	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	360	370	10	1.93%	10	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Credit Counselors	630	650	20	2.68%	20	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	5,140	5,250	110	2.22%	150	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	650	650	10	0.93%	30	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,260	1,280	30	1.99%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	570	570	10	1.41%	10	Bachelor's degree	None	Moderate-term on-the-job training
15-1111	Computer and Information Research Scientists	190	190	10	3.21%	10	Doctoral or professional degree	None	None
15-1121	Computer Systems Analysts	2,590	2,670	80	2.97%	70	Bachelor's degree	None	None
15-1122	Information Security Analysts	510	540	20	4.47%	20	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	2,680	2,690	0	0.11%	70	Bachelor's degree	None	None
15-1132	Software Developers, Applications	2,540	2,600	60	2.32%	60	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	1,970	2,010	40	2.14%	40	Bachelor's degree	None	None
15-1134	Web Developers	1,060	1,080	20	1.88%	20	Associate's degree	None	None
15-1141	Database Administrators	930	940	10	0.97%	20	Bachelor's degree	Less than 5 years	None
15-1142	Network and Computer Systems Administrators	2,670	2,670	10	0.23%	40	Bachelor's degree	None	None
15-1143	Computer Network Architects	540	540	0	0.00%	10	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	6,100	6,250	150	2.48%	160	Some college, no degree	None	Moderate-term on-the-job training
15-1152	Computer Network Support Specialists	1,830	1,820	-10	-0.38%	30	Associate's degree	None	None
15-1199	Computer Occupations, All Other	1,390	1,380	-10	-0.58%	20	Bachelor's degree	None	None
15-2031	Operations Research Analysts	470	500	30	5.27%	20	Bachelor's degree	None	None
15-2041	Statisticians	340	360	20	4.96%	20	Master's degree	None	None
17-1011	Architects, Except Landscape and Naval	790	810	20	2.65%	30	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	140	140	10	3.62%	10	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	150	150	10	4.14%	10	Bachelor's degree	None	None
17-1022	Surveyors	1,070	1,090	20	2.24%	30	Bachelor's degree	Less than 5 years	None
17-2011	Aerospace Engineers	1,040	1,060	20	1.63%	30	Bachelor's degree	None	None
17-2031	Biomedical Engineers	70	70	0	0.00%	0	Bachelor's degree	None	None
17-2041	Chemical Engineers	290	290	10	3.16%	10	Bachelor's degree	None	None
17-2051	Civil Engineers	2,610	2,700	90	3.45%	100	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	220	220	0	0.00%	10	Bachelor's degree	None	None
17-2071	Electrical Engineers	970	990	20	1.95%	30	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,450	1,430	-20	-1.52%	30	Bachelor's degree	None	None
17-2081	Environmental Engineers	350	360	10	3.46%	10	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety E	610	630	10	2.29%	30	Bachelor's degree	None	None
17-2112	Industrial Engineers	2,010	2,090	80	3.73%	100	Bachelor's degree	None	None
17-2131	Materials Engineers	500	510	10	2.21%	20	Bachelor's degree	None	None
17-2141	Mechanical Engineers	2,550	2,600	50	2.12%	110	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining S	280	300	20	5.36%	10	Bachelor's degree	None	None
17-2171	Petroleum Engineers	4,130	4,390	270	6.42%	230	Bachelor's degree	None	None
17-2199	Engineers, All Other	1,130	1,150	20	1.95%	30	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	1,180	1,190	10	0.93%	20	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	400	410	10	1.25%	10	Associate's degree	None	None
17-3013	Mechanical Drafters	1,480	1,490	10	0.88%	30	Associate's degree	None	None
17-3019	Drafters, All Other	210	220	10	3.33%	10	Associate's degree	None	None
17-3021	Aerospace Engineering and Operations Technicians	80	70	0	-3.95%	0	Associate's degree	None	None
17-3022	Civil Engineering Technicians	700	710	10	1.73%	20	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,370	1,360	-20	-1.16%	30	Associate's degree	None	None

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17-3024	Electro-Mechanical Technicians	100	90	-10	-7.37%	0	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	220	240	10	6.25%	10	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	1,090	1,090	0	0.09%	20	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	450	460	10	2.68%	20	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	1,120	1,150	20	2.14%	30	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	970	1,000	30	2.67%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
19-1011	Animal Scientists	60	60	0	-1.72%	0	Doctoral or professional degree	None	None
19-1012	Food Scientists and Technologists	100	100	0	-0.99%	0	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	160	160	0	2.56%	10	Doctoral or professional degree	None	None
19-1023	Zoologists and Wildlife Biologists	90	90	0	0.00%	0	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	210	210	0	0.00%	10	Bachelor's degree	None	None
19-1031	Conservation Scientists	350	350	0	-0.29%	10	Bachelor's degree	None	None
19-1032	Foresters	80	90	0	2.38%	0	Bachelor's degree	None	None
19-1041	Epidemiologists	80	90	0	2.41%	0	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	320	320	0	0.95%	10	Doctoral or professional degree	None	None
19-2012	Physicists	70	70	0	1.45%	0	Doctoral or professional degree	None	None
19-2021	Atmospheric and Space Scientists	310	310	0	-0.65%	10	Bachelor's degree	None	None
19-2031	Chemists	460	460	10	1.09%	10	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including H	1,130	1,160	30	2.56%	50	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	1,680	1,780	90	5.46%	90	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	60	60	0	0.00%	0	Bachelor's degree	None	None
19-3011	Economists	180	180	10	2.84%	10	Master's degree	None	None
19-3022	Survey Researchers	90	90	0	-1.11%	0	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	1,470	1,470	0	0.14%	40	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	140	140	0	2.14%	10	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	160	170	10	4.27%	10	Master's degree	None	None
19-3092	Geographers	50	50	10	10.42%	0	Bachelor's degree	None	None
19-3093	Historians	80	80	0	1.30%	0	Master's degree	None	None
19-4011	Agricultural and Food Science Technicians	260	260	0	0.78%	10	Associate's degree	None	Moderate-term on-the-job training
19-4021	Biological Technicians	1,360	1,370	10	0.51%	50	Bachelor's degree	None	None
19-4031	Chemical Technicians	490	500	10	2.47%	20	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	770	800	30	3.77%	40	Associate's degree	None	Moderate-term on-the-job training
19-4091	Environmental Science and Protection Technicians,	430	450	20	4.87%	30	Associate's degree	None	None
19-4092	Forensic Science Technicians	210	220	10	2.34%	10	Bachelor's degree	None	Moderate-term on-the-job training
19-4093	Forest and Conservation Technicians	180	180	0	0.56%	10	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All O	630	630	0	0.16%	30	Associate's degree	None	None
21-1011	Substance Abuse and Behavioral Disorder Counselo	1,200	1,230	40	3.01%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Guidance, School, and Vocational Cour	3,940	4,000	60	1.40%	110	Master's degree	None	None
21-1013	Marriage and Family Therapists	650	670	20	3.38%	20	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	1,550	1,590	40	2.58%	50	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	2,360	2,420	60	2.37%	80	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	5,020	5,010	-10	-0.14%	100	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	1,640	1,690	50	2.80%	60	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	1,460	1,490	30	1.91%	40	Bachelor's degree	None	None
21-1029	Social Workers, All Other	720	720	0	0.56%	20	Bachelor's degree	None	None
21-1091	Health Educators	650	670	20	2.30%	20	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Speci	760	780	20	2.10%	30	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	3,280	3,330	50	1.56%	110	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	990	1,010	20	2.23%	40	High school diploma or equivalent	None	Short-term on-the-job training
21-2011	Clergy	800	790	-10	-1.62%	20	Bachelor's degree	None	Moderate-term on-the-job training
23-1011	Lawyers	9,220	9,310	90	0.93%	180	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearir	170	170	0	0.00%	0	Doctoral or professional degree	Less than 5 years	Short-term on-the-job training

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23-1022	Arbitrators, Mediators, and Conciliators	60	60	0	3.57%	0	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
23-2011	Paralegals and Legal Assistants	2,790	2,880	90	3.05%	80	Associate's degree	None	None
23-2091	Court Reporters	220	230	10	3.20%	10	Postsecondary non-degree award	None	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	1,070	1,080	10	1.13%	20	High school diploma or equivalent	None	Short-term on-the-job training
23-2099	Legal Support Workers, All Other	450	460	10	1.76%	10	High school diploma or equivalent	None	Short-term on-the-job training
25-1011	Business Teachers, Postsecondary	1,180	1,190	10	0.76%	20	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	420	420	0	0.48%	10	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	660	660	0	0.61%	10	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	280	280	0	0.00%	0	Doctoral or professional degree	None	None
25-1041	Agricultural Sciences Teachers, Postsecondary	110	110	0	0.00%	0	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	520	530	10	1.73%	10	Doctoral or professional degree	None	None
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	60	60	0	0.00%	0	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	350	350	0	0.58%	10	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	190	190	0	0.54%	0	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	60	60	0	1.61%	0	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	160	160	0	0.63%	0	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	100	100	0	0.00%	0	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	260	270	0	0.76%	10	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	220	220	0	0.45%	0	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	2,030	2,120	90	4.42%	70	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	1,120	1,160	50	4.02%	40	Master's degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	860	870	10	0.70%	20	Doctoral or professional degree	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	210	210	0	0.98%	0	Doctoral or professional degree	None	None
25-1112	Law Teachers, Postsecondary	160	160	0	0.62%	0	Doctoral or professional degree	None	None
25-1113	Social Work Teachers, Postsecondary	110	120	0	0.88%	0	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,120	1,140	10	1.25%	20	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	470	470	0	0.42%	10	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	870	870	10	0.58%	10	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	330	330	0	1.21%	10	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	380	380	0	0.79%	10	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	340	340	10	1.48%	10	Doctoral or professional degree	None	None
25-1192	Home Economics Teachers, Postsecondary	90	100	0	1.06%	0	Master's degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	360	360	0	0.84%	10	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	1,960	1,970	10	0.56%	30	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	1,740	1,750	10	0.63%	30	Doctoral or professional degree	None	None
25-2011	Preschool Teachers, Except Special Education	6,810	6,890	80	1.19%	230	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	2,180	2,230	50	2.39%	90	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Education	17,230	17,630	400	2.33%	570	Bachelor's degree	None	Internship/residency
25-2022	Middle School Teachers, Except Special and Career/Technical Education	8,180	8,370	190	2.33%	270	Bachelor's degree	None	Internship/residency
25-2023	Career/Technical Education Teachers, Middle School	300	310	0	0.99%	10	Bachelor's degree	Less than 5 years	Internship/residency
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	12,700	12,830	130	1.04%	410	Bachelor's degree	None	Internship/residency
25-2032	Career/Technical Education Teachers, Secondary School	1,160	1,170	10	0.78%	40	Bachelor's degree	Less than 5 years	Internship/residency
25-2051	Special Education Teachers, Preschool	80	80	0	1.32%	0	Bachelor's degree	None	Internship/residency
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,830	1,850	20	0.93%	40	Bachelor's degree	None	Internship/residency
25-2053	Special Education Teachers, Middle School	1,160	1,170	10	0.86%	20	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	1,410	1,420	10	0.85%	30	Bachelor's degree	None	Internship/residency
25-3011	Adult Basic and Secondary Education and Literacy Teachers, Except Self-Enrichment Education	940	970	20	2.54%	30	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	2,310	2,350	30	1.43%	50	High school diploma or equivalent	Less than 5 years	None
25-3098	Substitute Teachers	8,050	8,090	40	0.55%	150	Bachelor's degree	None	Internship/residency
25-3099	Teachers and Instructors, All Other	3,460	3,480	20	0.61%	70	Bachelor's degree	None	Internship/residency
25-4011	Archivists	100	110	0	0.96%	0	Master's degree	None	None
25-4012	Curators	80	90	0	4.82%	0	Master's degree	None	None

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				Numeric	Percent				
25-4013	Museum Technicians and Conservators	130	140	10	6.98%	10	Bachelor's degree	None	None
25-4021	Librarians	2,010	2,050	40	2.09%	70	Master's degree	None	None
25-4031	Library Technicians	1,600	1,650	40	2.68%	120	Postsecondary non-degree award	None	None
25-9011	Audio-Visual and Multimedia Collections Specialists	200	200	0	-0.49%	0	Bachelor's degree	Less than 5 years	None
25-9021	Farm and Home Management Advisors	60	60	0	-1.59%	0	Master's degree	None	None
25-9031	Instructional Coordinators	1,360	1,390	30	2.14%	20	Master's degree	5 years or more	None
25-9041	Teacher Assistants	12,620	12,750	140	1.07%	340	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	530	520	0	-0.57%	0	Bachelor's degree	None	None
27-1011	Art Directors	240	230	-10	-2.09%	10	Bachelor's degree	5 years or more	None
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	180	180	0	-1.12%	0	High school diploma or equivalent	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	150	150	0	0.00%	0	Bachelor's degree	None	Moderate-term on-the-job training
27-1021	Commercial and Industrial Designers	240	240	0	0.00%	10	Bachelor's degree	None	None
27-1023	Floral Designers	970	950	-20	-2.47%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	1,800	1,780	-10	-0.67%	50	Bachelor's degree	None	None
27-1025	Interior Designers	330	340	0	0.30%	10	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	320	330	0	0.93%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	90	90	0	1.10%	0	Bachelor's degree	None	None
27-2012	Producers and Directors	640	620	-20	-2.83%	20	Bachelor's degree	Less than 5 years	None
27-2022	Coaches and Scouts	2,870	2,930	60	2.02%	120	Bachelor's degree	None	None
27-2041	Music Directors and Composers	670	660	-10	-1.50%	20	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	600	580	-20	-3.99%	20	High school diploma or equivalent	None	Long-term on-the-job training
27-3011	Radio and Television Announcers	460	450	-20	-4.09%	10	Bachelor's degree	None	None
27-3012	Public Address System and Other Announcers	90	90	0	-2.27%	0	High school diploma or equivalent	None	Short-term on-the-job training
27-3022	Reporters and Correspondents	650	640	-10	-1.23%	20	Bachelor's degree	None	None
27-3031	Public Relations Specialists	2,110	2,100	-10	-0.28%	30	Bachelor's degree	None	None
27-3041	Editors	890	900	10	1.12%	30	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	500	510	10	2.39%	20	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,170	1,140	-20	-2.06%	20	Bachelor's degree	None	Moderate-term on-the-job training
27-3091	Interpreters and Translators	440	460	20	4.98%	20	Bachelor's degree	None	Short-term on-the-job training
27-4011	Audio and Video Equipment Technicians	370	380	0	0.54%	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	240	240	-10	-3.69%	0	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	50	50	0	-2.17%	0	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,910	1,880	-30	-1.72%	20	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture Camera Operators	290	280	0	-1.05%	0	Bachelor's degree	None	None
27-4099	Media and Communication Equipment Workers, All Other	60	60	0	0.00%	0	High school diploma or equivalent	None	Short-term on-the-job training
29-1011	Chiropractors	450	450	-10	-1.33%	10	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,520	1,510	-10	-0.72%	40	Doctoral or professional degree	None	None
29-1023	Orthodontists	90	90	0	-2.30%	0	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	930	950	30	2.70%	20	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	640	640	0	0.63%	20	Doctoral or professional degree	None	None
29-1051	Pharmacists	3,790	3,890	100	2.53%	140	Doctoral or professional degree	None	None
29-1061	Anesthesiologists	160	160	0	0.64%	0	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	2,310	2,290	-10	-0.56%	50	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	380	380	0	-0.78%	10	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	90	90	0	0.00%	0	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	210	210	0	-0.48%	10	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	200	200	0	-1.00%	0	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	920	920	0	0.44%	20	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	6,070	6,100	30	0.43%	160	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	1,770	1,820	50	2.76%	50	Master's degree	None	None
29-1122	Occupational Therapists	1,160	1,190	30	2.77%	20	Master's degree	None	None
29-1123	Physical Therapists	2,110	2,170	70	3.08%	80	Doctoral or professional degree	None	None

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				Numeric	Percent				
29-1124	Radiation Therapists	350	350	0	1.16%	10	Associate's degree	None	None
29-1125	Recreational Therapists	300	300	0	0.00%	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	1,600	1,630	30	1.69%	30	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,450	1,470	20	1.45%	30	Master's degree	None	None
29-1128	Exercise Physiologists	60	60	0	0.00%	0	Bachelor's degree	None	None
29-1129	Therapists, All Other	50	50	0	2.04%	0	Bachelor's degree	None	None
29-1131	Veterinarians	810	820	20	2.23%	30	Doctoral or professional degree	None	None
29-1141	Registered Nurses	32,150	32,650	500	1.57%	800	Associate's degree	None	None
29-1151	Nurse Anesthetists	270	280	0	1.09%	10	Master's degree	None	None
29-1171	Nurse Practitioners	870	890	20	2.64%	30	Master's degree	None	None
29-1181	Audiologists	140	140	10	3.60%	0	Doctoral or professional degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All Other	320	320	0	-0.94%	10	Master's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	2,250	2,260	10	0.49%	60	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	1,880	1,930	50	2.66%	70	Associate's degree	None	None
29-2021	Dental Hygienists	2,010	2,040	40	1.95%	60	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	790	820	30	3.27%	20	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	870	910	50	5.19%	30	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	280	280	0	1.08%	10	Associate's degree	None	None
29-2034	Radiologic Technologists	2,810	2,850	40	1.39%	50	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	380	380	0	1.06%	10	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	3,040	3,130	90	2.79%	120	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	510	520	10	1.98%	10	Associate's degree	None	None
29-2052	Pharmacy Technicians	4,850	5,020	170	3.51%	120	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	1,090	1,070	-20	-1.47%	10	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	290	290	0	1.39%	0	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	2,180	2,250	70	3.12%	50	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	800	850	50	6.09%	30	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	510	520	10	1.78%	10	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	13,930	14,130	210	1.48%	430	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	3,670	3,740	70	1.80%	120	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	950	960	20	1.69%	30	High school diploma or equivalent	None	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	130	140	10	3.76%	0	Master's degree	None	Internship/residency
29-2092	Hearing Aid Specialists	90	90	0	2.20%	0	High school diploma or equivalent	None	None
29-2099	Health Technologists and Technicians, All Other	540	550	10	1.29%	10	High school diploma or equivalent	None	None
29-9011	Occupational Health and Safety Specialists	850	870	20	1.88%	30	Bachelor's degree	None	Short-term on-the-job training
29-9091	Athletic Trainers	360	360	0	0.84%	10	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	380	380	0	0.52%	10	Bachelor's degree	None	None
31-1011	Home Health Aides	7,790	8,210	420	5.33%	340	Less than high school	None	Short-term on-the-job training
31-1013	Psychiatric Aides	550	550	0	-0.72%	10	High school diploma or equivalent	None	Short-term on-the-job training
31-1014	Nursing Assistants	19,890	20,360	470	2.37%	580	Postsecondary non-degree award	None	None
31-1015	Orderlies	1,670	1,690	30	1.50%	40	High school diploma or equivalent	None	Short-term on-the-job training
31-2011	Occupational Therapy Assistants	540	570	30	4.62%	20	Associate's degree	None	None
31-2012	Occupational Therapy Aides	60	60	0	3.57%	0	High school diploma or equivalent	None	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,140	1,190	40	3.77%	40	Associate's degree	None	None
31-2022	Physical Therapist Aides	620	640	20	3.55%	20	High school diploma or equivalent	None	Short-term on-the-job training
31-9011	Massage Therapists	470	470	0	0.21%	0	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	3,340	3,370	30	0.75%	80	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	7,510	7,620	110	1.49%	190	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	390	400	10	1.54%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	1,090	1,060	-20	-1.94%	20	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	690	710	20	3.03%	20	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	2,460	2,510	50	1.99%	70	High school diploma or equivalent	None	Short-term on-the-job training

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				Numeric	Percent				
31-9097	Phlebotomists	1,120	1,140	20	1.78%	30	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	320	320	0	0.31%	10	High school diploma or equivalent	None	None
33-1011	First-Line Supervisors of Correctional Officers	860	880	20	2.33%	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors of Police and Detectives	1,090	1,130	50	4.24%	60	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Preventio	640	660	30	4.40%	40	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors of Protective Service Workers	900	930	40	3.89%	40	High school diploma or equivalent	Less than 5 years	None
33-2011	Firefighters	2,710	2,820	120	4.25%	130	Postsecondary non-degree award	None	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	120	130	10	4.10%	10	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
33-2022	Forest Fire Inspectors and Prevention Specialists	190	190	0	-1.04%	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3011	Bailiffs	50	60	0	5.77%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	6,150	6,400	260	4.18%	290	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	1,790	1,830	40	2.06%	50	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3031	Fish and Game Wardens	120	120	0	0.00%	0	High school diploma or equivalent	None	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	8,500	8,860	350	4.14%	440	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9011	Animal Control Workers	280	290	10	3.89%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	120	130	0	2.46%	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigat	960	1,010	50	4.89%	40	High school diploma or equivalent	None	Short-term on-the-job training
33-9032	Security Guards	13,050	13,690	640	4.92%	510	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	300	300	0	1.01%	10	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Prote	1,410	1,420	20	1.14%	160	High school diploma or equivalent	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	370	380	10	3.54%	20	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	560	570	10	1.80%	60	High school diploma or equivalent	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	1,700	1,730	30	1.76%	40	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serv	10,850	11,200	350	3.19%	500	High school diploma or equivalent	Less than 5 years	None
35-2011	Cooks, Fast Food	8,940	9,040	100	1.16%	230	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	9,460	9,620	150	1.61%	270	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	11,890	12,360	470	3.91%	470	Less than high school	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	1,720	1,760	30	1.86%	50	Less than high school	None	Short-term on-the-job training
35-2019	Cooks, All Other	330	340	10	2.42%	10	Less than high school	None	Moderate-term on-the-job training
35-2021	Food Preparation Workers	8,320	8,460	140	1.69%	340	Less than high school	None	Short-term on-the-job training
35-3011	Bartenders	5,160	5,270	110	2.09%	240	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, I	28,800	29,960	1,160	4.03%	1,960	Less than high school	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, an	5,670	5,730	60	1.06%	580	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	31,670	32,360	700	2.19%	1,990	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	2,700	2,780	80	3.01%	120	Less than high school	None	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartende	3,820	3,910	90	2.28%	260	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	5,170	5,290	120	2.24%	360	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coff	3,400	3,480	80	2.35%	400	Less than high school	None	None
35-9099	Food Preparation and Serving Related Workers, All t	80	80	0	1.22%	10	Less than high school	None	Short-term on-the-job training
37-1011	First-Line Supervisors of Housekeeping and Janitori	3,620	3,680	60	1.74%	110	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service	2,040	2,070	30	1.27%	30	High school diploma or equivalent	Less than 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeep	23,730	24,390	670	2.81%	740	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	12,750	13,030	280	2.16%	370	Less than high school	None	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	70	70	0	5.80%	0	Less than high school	None	Short-term on-the-job training
37-2021	Pest Control Workers	720	770	50	6.84%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	10,770	11,050	280	2.63%	410	Less than high school	None	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vege	530	550	20	3.02%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,120	1,180	60	4.99%	60	High school diploma or equivalent	None	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	290	300	10	1.71%	10	Less than high school	None	Short-term on-the-job training
39-1011	Gaming Supervisors	1,320	1,350	30	2.11%	40	High school diploma or equivalent	Less than 5 years	None
39-1012	Slot Supervisors	950	980	30	2.94%	30	High school diploma or equivalent	Less than 5 years	None
39-1021	First-Line Supervisors of Personal Service Workers	1,950	1,940	-10	-0.72%	30	High school diploma or equivalent	Less than 5 years	None

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				Numeric	Percent				
39-2011	Animal Trainers	660	660	0	-0.30%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	1,650	1,660	10	0.79%	20	Less than high school	None	Short-term on-the-job training
39-3011	Gaming Dealers	2,750	2,880	130	4.72%	110	High school diploma or equivalent	None	Short-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	340	350	10	2.62%	10	High school diploma or equivalent	None	Short-term on-the-job training
39-3019	Gaming Service Workers, All Other	500	520	20	4.62%	20	High school diploma or equivalent	None	Short-term on-the-job training
39-3021	Motion Picture Projectionists	80	80	0	-1.20%	0	Less than high school	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	860	880	30	2.92%	80	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,010	1,040	30	2.78%	80	Less than high school	None	Short-term on-the-job training
39-4011	Embalmers	190	170	-10	-5.95%	0	Postsecondary non-degree award	None	Short-term on-the-job training
39-4021	Funeral Attendants	440	420	-10	-2.97%	10	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	280	280	0	-0.71%	10	Associate's degree	None	Long-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,810	3,770	-40	-0.95%	90	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	340	350	10	3.24%	10	Postsecondary non-degree award	None	None
39-6011	Baggage Porters and Bellhops	310	320	10	2.25%	10	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	190	200	10	3.63%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7011	Tour Guides and Escorts	200	210	10	2.94%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7012	Travel Guides	50	50	0	0.00%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9011	Childcare Workers	12,460	12,530	70	0.58%	410	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	14,110	14,940	830	5.87%	490	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	2,760	2,770	10	0.36%	40	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	2,920	2,950	30	1.13%	50	Bachelor's degree	None	None
39-9041	Residential Advisors	920	940	20	2.29%	50	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	440	450	10	1.13%	10	High school diploma or equivalent	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	23,720	23,830	110	0.48%	560	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	4,380	4,310	-70	-1.60%	60	High school diploma or equivalent	Less than 5 years	None
41-2011	Cashiers	42,440	43,390	950	2.23%	2,750	Less than high school	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	1,380	1,440	60	4.58%	110	High school diploma or equivalent	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	3,860	3,910	50	1.30%	140	Less than high school	None	Short-term on-the-job training
41-2022	Parts Salespersons	3,150	3,320	170	5.43%	160	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	46,300	47,200	900	1.95%	2,150	Less than high school	None	Short-term on-the-job training
41-3011	Advertising Sales Agents	1,290	1,300	10	0.70%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5,290	5,360	70	1.34%	160	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sal	1,840	1,870	30	1.85%	60	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	430	440	10	1.15%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	5,130	5,130	0	0.08%	140	High school diploma or equivalent	None	Short-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturin	5,830	5,880	40	0.70%	130	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturin	15,900	16,320	420	2.66%	520	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9011	Demonstrators and Product Promoters	490	530	50	9.22%	40	High school diploma or equivalent	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,350	1,360	10	0.82%	20	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	4,640	4,650	10	0.24%	50	High school diploma or equivalent	None	Long-term on-the-job training
41-9031	Sales Engineers	280	270	-10	-2.90%	0	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	4,530	4,570	40	0.95%	130	Less than high school	None	Short-term on-the-job training
41-9091	Door-to-Door Sales Workers, News and Street Vend	670	630	-50	-6.72%	10	High school diploma or equivalent	None	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	2,170	2,220	50	2.12%	60	High school diploma or equivalent	None	None
43-1011	First-Line Supervisors of Office and Administrative S	20,160	20,510	340	1.70%	640	High school diploma or equivalent	Less than 5 years	None
43-2011	Switchboard Operators, Including Answering Service	1,580	1,550	-40	-2.40%	30	High school diploma or equivalent	None	Short-term on-the-job training
43-2021	Telephone Operators	50	40	0	-6.52%	0	High school diploma or equivalent	None	Short-term on-the-job training
43-3011	Bill and Account Collectors	4,740	4,840	100	2.07%	180	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	5,330	5,450	120	2.27%	150	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	33,450	34,190	740	2.21%	680	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	2,300	2,410	110	4.73%	100	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,850	2,910	70	2.28%	90	High school diploma or equivalent	None	Moderate-term on-the-job training

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				Numeric	Percent				
43-3061	Procurement Clerks	1,160	1,160	0	0.17%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	7,860	7,920	70	0.85%	440	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	350	360	10	3.43%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-4011	Brokerage Clerks	270	270	10	2.26%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4021	Correspondence Clerks	80	80	0	-1.28%	0	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	1,810	1,910	100	5.24%	70	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	310	320	0	0.64%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	27,290	27,800	520	1.89%	970	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	680	700	20	2.93%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,800	1,770	-30	-1.72%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,830	2,910	90	3.08%	180	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1,360	1,350	-10	-0.66%	30	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,420	1,470	60	3.88%	90	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	2,280	2,320	50	2.11%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	960	960	-10	-0.52%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1,520	1,490	-30	-1.91%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Ti	1,970	1,970	0	-0.05%	50	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	10,430	10,480	50	0.48%	320	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and T	1,400	1,410	10	0.71%	30	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	2,260	2,240	-20	-0.97%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-5011	Cargo and Freight Agents	440	440	-10	-1.13%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	1,100	1,060	-40	-3.38%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,590	1,670	70	4.45%	80	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	1,840	1,870	30	1.74%	70	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	950	940	-10	-0.84%	30	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	660	620	-50	-6.78%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	3,630	3,430	-200	-5.56%	120	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Proces	1,200	1,120	-80	-6.34%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	4,370	4,420	50	1.21%	130	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	6,830	6,880	60	0.85%	210	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	19,880	19,950	60	0.31%	660	Less than high school	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Rec	790	800	10	1.52%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-6011	Executive Secretaries and Executive Administrative	11,650	11,550	-100	-0.84%	140	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	2,770	2,740	-20	-0.83%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	5,960	6,120	170	2.80%	160	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Le	28,610	29,100	490	1.71%	580	High school diploma or equivalent	None	Short-term on-the-job training
43-9011	Computer Operators	850	820	-30	-3.29%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	2,470	2,360	-120	-4.69%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	410	380	-20	-5.91%	0	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	180	180	0	1.13%	10	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	3,610	3,660	60	1.58%	120	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Pos	1,010	990	-20	-1.79%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	40,580	40,670	90	0.21%	880	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	610	600	-10	-1.97%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Othe	1,360	1,370	10	0.74%	40	High school diploma or equivalent	None	Short-term on-the-job training
45-1011	First-Line Supervisors of Farming, Fishing, and Fore	690	690	0	-0.15%	10	High school diploma or equivalent	Less than 5 years	None
45-2021	Animal Breeders	130	120	-10	-7.87%	0	High school diploma or equivalent	Less than 5 years	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	450	450	-10	-1.33%	10	Less than high school	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	820	830	10	0.73%	30	Less than high school	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Gre	8,920	8,750	-170	-1.94%	280	Less than high school	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Anima	2,050	2,060	10	0.59%	70	Less than high school	None	Short-term on-the-job training
45-4022	Logging Equipment Operators	390	380	0	-0.26%	10	High school diploma or equivalent	None	Moderate-term on-the-job training

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				Numeric	Percent				
47-1011	First-Line Supervisors of Construction Trades and E:	9,510	9,820	310	3.28%	270	High school diploma or equivalent	5 years or more	None
47-2011	Boilermakers	160	160	0	1.92%	10	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	710	750	40	4.93%	30	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	310	310	0	1.30%	10	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	8,950	9,080	130	1.43%	180	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	150	150	0	-1.31%	0	Less than high school	None	Short-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	90	90	0	0.00%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	420	420	0	0.96%	10	Less than high school	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	3,370	3,530	160	4.75%	120	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	14,440	14,870	430	2.96%	520	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operato	1,950	1,970	20	0.87%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipm	6,060	6,290	230	3.81%	240	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	960	970	10	0.94%	10	Less than high school	None	Moderate-term on-the-job training
47-2082	Tapers	80	80	0	1.20%	0	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	6,870	7,060	190	2.81%	220	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	290	300	10	2.72%	10	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	560	580	20	3.76%	20	Less than high school	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	180	200	10	7.10%	10	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	4,080	4,120	50	1.15%	90	Less than high school	None	Moderate-term on-the-job training
47-2151	Pipelayers	1,220	1,280	60	5.10%	50	Less than high school	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5,790	5,990	210	3.56%	180	High school diploma or equivalent	None	Apprenticeship
47-2171	Reinforcing Iron and Rebar Workers	100	110	0	3.96%	0	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	1,420	1,420	0	0.14%	30	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,520	3,570	50	1.39%	90	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	740	770	30	3.93%	40	High school diploma or equivalent	None	Apprenticeship
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons,	350	380	20	6.53%	20	Less than high school	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	900	920	20	2.01%	30	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	1,610	1,690	90	5.42%	80	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Stea	840	880	40	4.40%	30	High school diploma or equivalent	None	Short-term on-the-job training
47-3016	Helpers--Roofers	190	200	0	2.09%	10	Less than high school	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	980	1,010	30	3.05%	40	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4031	Fence Erectors	260	270	10	4.21%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	370	410	40	10.87%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	2,510	2,640	130	5.06%	90	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Oper	660	660	0	0.46%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	440	460	20	4.99%	20	Less than high school	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	2,220	2,260	40	1.80%	110	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	2,360	2,420	60	2.50%	120	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	4,160	4,250	90	2.24%	210	Less than high school	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	1,000	1,010	10	1.30%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, ar	550	550	0	0.18%	10	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5041	Continuous Mining Machine Operators	230	230	10	3.10%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	300	310	10	4.35%	10	High school diploma or equivalent	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	4,960	5,100	140	2.82%	180	Less than high school	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	1,650	1,680	40	2.18%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5099	Extraction Workers, All Other	110	120	0	3.51%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-1011	First-Line Supervisors of Mechanics, Installers, and I	5,800	5,960	160	2.79%	220	High school diploma or equivalent	Less than 5 years	None
49-2011	Computer, Automated Teller, and Office Machine Re	1,030	1,020	-20	-1.46%	20	Some college, no degree	None	None
49-2021	Radio, Cellular, and Tower Equipment Installers and	150	140	0	-2.76%	0	Associate's degree	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repai	1,430	1,280	-150	-10.22%	20	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	890	880	-10	-0.68%	20	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	140	140	0	0.00%	0	Postsecondary non-degree award	None	Long-term on-the-job training

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				Numeric	Percent				
49-2093	Electrical and Electronics Installers and Repairers, T	90	100	0	2.15%	0	Postsecondary non-degree award	None	Long-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and	1,370	1,380	10	0.66%	30	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Si	250	260	10	2.76%	10	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Moto	340	340	10	1.79%	10	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers	270	270	-10	-2.19%	10	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	520	550	30	5.98%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	5,690	5,660	-30	-0.54%	140	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	2,030	2,140	100	5.12%	90	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	220	230	10	4.46%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	8,710	9,080	370	4.24%	400	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specia	4,230	4,340	110	2.60%	140	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technician	370	380	10	2.72%	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engine	1,690	1,740	50	2.72%	70	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	200	200	0	0.00%	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	200	210	10	4.02%	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	180	190	10	5.49%	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine I	340	350	10	2.37%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3093	Tire Repairers and Changers	1,730	1,820	90	4.91%	100	High school diploma or equivalent	None	Short-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except M	770	780	10	1.17%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mecha	3,100	3,190	100	3.07%	120	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	540	530	0	-0.56%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	5,920	6,250	330	5.49%	330	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	2,110	2,210	100	4.70%	80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9044	Millwrights	170	180	0	2.34%	10	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	1,920	2,020	100	5.32%	120	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,600	1,560	-40	-2.50%	40	High school diploma or equivalent	None	Long-term on-the-job training
49-9061	Camera and Photographic Equipment Repairers	50	50	0	-1.92%	0	Associate's degree	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	390	420	20	6.09%	20	Associate's degree	None	Moderate-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All C	310	310	0	0.00%	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,340	16,680	330	2.04%	440	High school diploma or equivalent	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicercs	970	980	10	1.45%	20	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	380	390	20	4.26%	20	High school diploma or equivalent	None	Long-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	60	60	0	-5.17%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9096	Riggers	230	240	10	5.65%	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9097	Signal and Track Switch Repairers	130	130	0	0.00%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Work	2,760	2,870	100	3.65%	150	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All O	1,760	1,760	0	0.11%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating W	8,220	8,350	130	1.59%	180	Postsecondary non-degree award	Less than 5 years	None
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems A	1,090	1,130	30	3.02%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	170	160	0	-2.40%	0	High school diploma or equivalent	None	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	1,700	1,640	-60	-3.30%	20	High school diploma or equivalent	None	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	750	740	-10	-1.06%	10	High school diploma or equivalent	None	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	690	710	20	2.59%	20	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,760	1,840	80	4.54%	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	240	240	0	-1.67%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	13,370	13,580	220	1.62%	330	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	1,830	1,860	30	1.53%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	2,240	2,290	50	2.28%	80	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,740	1,780	40	2.41%	60	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	2,150	2,220	70	3.44%	90	Less than high school	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	890	910	20	1.91%	30	Less than high school	None	Short-term on-the-job training
51-3092	Food Batchmakers	690	710	10	1.73%	30	High school diploma or equivalent	None	Moderate-term on-the-job training

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				Numeric	Percent				
51-3093	Food Cooking Machine Operators and Tenders	510	520	10	2.16%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal	1,810	1,940	130	7.06%	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Prog	190	200	20	9.19%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators,	560	560	-10	-1.24%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, M	260	270	10	3.04%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, M	400	410	10	2.24%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Oper	2,310	2,330	20	0.95%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators,	580	580	10	0.87%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine T	990	980	0	-0.10%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators,	850	870	10	1.52%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and	210	210	0	1.45%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	7,620	7,920	310	4.00%	320	High school diploma or equivalent	None	Long-term on-the-job training
51-4052	Pourers and Casters, Metal	80	80	0	1.23%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	160	170	10	4.27%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	190	200	0	1.55%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters,	660	640	-20	-2.87%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tende	740	740	10	1.09%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	500	510	10	2.39%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	10,660	11,070	410	3.81%	460	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, O	850	910	60	7.57%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Te	340	350	20	5.04%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4192	Layout Workers, Metal and Plastic	80	80	0	-1.32%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and	390	400	10	2.80%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	170	170	0	2.38%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	330	330	0	1.22%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	390	350	-40	-10.66%	10	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,540	1,410	-130	-8.19%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	270	240	-30	-10.11%	0	High school diploma or equivalent	None	Short-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	3,240	3,230	-10	-0.37%	90	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	630	610	-20	-3.65%	10	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	1,050	1,010	-40	-3.72%	10	Less than high school	None	Short-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	250	230	-20	-8.76%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Ten	50	50	0	-7.55%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators,	100	100	0	-4.04%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	380	380	0	0.00%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	650	620	-30	-4.48%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	60	60	0	0.00%	0	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, W	390	370	-20	-4.15%	10	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenc	240	230	-10	-3.83%	0	High school diploma or equivalent	None	Short-term on-the-job training
51-7099	Woodworkers, All Other	230	230	0	-1.72%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8012	Power Distributors and Dispatchers	110	110	0	2.78%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	330	330	0	0.61%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	490	490	0	0.41%	20	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System	1,630	1,710	80	5.10%	90	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	360	360	0	1.11%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	510	530	20	3.31%	30	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Opera	1,830	1,890	60	3.12%	90	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	370	380	10	1.87%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and St	280	280	0	0.72%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, (530	540	0	0.56%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	330	350	20	4.55%	20	Less than high school	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, an	1,240	1,240	10	0.40%	40	High school diploma or equivalent	None	Moderate-term on-the-job training

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				Numeric	Percent				
51-9031	Cutters and Trimmers, Hand	160	150	-10	-5.13%	0	Less than high school	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and	760	760	0	-0.26%	10	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Mact	1,410	1,360	-50	-3.62%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators anc	580	560	-20	-3.43%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weigher	7,490	7,710	220	2.94%	270	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	160	160	0	-2.47%	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	330	320	-10	-2.77%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	140	150	0	2.10%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	360	370	10	2.49%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tende	3,200	3,220	20	0.62%	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, O	1,370	1,410	40	2.93%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	830	870	30	4.09%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	190	190	0	-0.52%	0	Less than high school	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Mac	550	540	-10	-1.63%	20	High school diploma or equivalent	None	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment O	200	210	10	2.48%	10	Less than high school	None	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Ten	100	100	0	3.03%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Pl	600	600	-10	-0.83%	20	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tend	830	840	20	2.18%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9197	Tire Builders	1,150	1,100	-50	-4.60%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	5,500	5,610	120	2.09%	160	Less than high school	None	Short-term on-the-job training
51-9199	Production Workers, All Other	1,240	1,240	0	0.24%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	210	220	10	4.76%	10	High school diploma or equivalent	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Mat	2,030	2,080	50	2.41%	80	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Materia	3,520	3,570	50	1.36%	110	High school diploma or equivalent	Less than 5 years	None
53-2011	Airline Pilots, Copilots, and Flight Engineers	240	240	0	-0.42%	10	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	360	360	0	0.83%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2021	Air Traffic Controllers	330	340	10	2.44%	20	Associate's degree	None	Long-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	1,070	1,110	40	4.12%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	4,810	4,780	-30	-0.64%	80	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	6,420	6,560	140	2.13%	170	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	26,570	26,870	300	1.12%	550	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	7,940	8,030	90	1.08%	160	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,620	1,660	30	1.97%	30	Less than high school	None	Short-term on-the-job training
53-4011	Locomotive Engineers	320	320	0	0.00%	10	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-4031	Railroad Conductors and Yardmasters	350	340	0	-0.29%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6021	Parking Lot Attendants	920	930	10	0.54%	50	Less than high school	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,160	1,210	60	5.02%	70	Less than high school	None	Short-term on-the-job training
53-6041	Traffic Technicians	250	250	0	0.00%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6051	Transportation Inspectors	290	290	0	0.68%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6061	Transportation Attendants, Except Flight Attendants	240	250	10	2.08%	10	High school diploma or equivalent	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	520	530	10	2.32%	20	Less than high school	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	440	450	10	2.99%	20	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Oper	1,080	1,110	40	3.26%	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	5,140	5,220	80	1.61%	160	Less than high school	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	3,990	4,110	130	3.16%	190	Less than high school	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, H	27,260	27,840	580	2.13%	1,160	Less than high school	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	650	660	10	0.92%	20	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	5,150	5,200	50	0.91%	160	Less than high school	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operato	280	280	0	1.45%	10	Less than high school	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	880	910	30	3.30%	40	Less than high school	None	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	1,560	1,620	60	4.11%	70	Less than high school	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	1,480	1,570	100	6.64%	80	Less than high school	None	Short-term on-the-job training

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				Numeric	Percent				
53-7121	Tank Car, Truck, and Ship Loaders	100	100	0	1.98%	0	Less than high school	None	Short-term on-the-job training