

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2011 - 2013

Occupation Code	Occupation Title	2011 2nd Qtr	2013 2nd Qtr	Employment Change		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
		Estimated Employment	Projected Employment	Numeric	Percent				
00-0000	Total, All Occupations	1,698,460	1,734,640	36,170	2.13%	59,850			
11-1011	Chief Executives	7,110	7,150	40	0.62%	200	Bachelor's degree	More than 5 years	None
11-1021	General and Operations Managers	28,950	29,020	70	0.23%	490	Associate's degree	1 to 5 years	None
11-1031	Legislators	870	890	20	1.84%	30	Bachelor's degree	1 to 5 years	None
11-2011	Advertising and Promotions Managers	380	390	0	1.05%	10	Bachelor's degree	1 to 5 years	None
11-2021	Marketing Managers	1,580	1,630	50	3.10%	70	Bachelor's degree	1 to 5 years	None
11-2022	Sales Managers	3,160	3,220	60	1.90%	120	Bachelor's degree	1 to 5 years	None
11-2031	Public Relations and Fundraising Managers	710	720	10	1.27%	20	Bachelor's degree	1 to 5 years	None
11-3011	Administrative Services Managers	4,170	4,270	100	2.42%	130	High school diploma or equivalent	1 to 5 years	None
11-3021	Computer and Information Systems Managers	2,330	2,390	60	2.66%	60	Bachelor's degree	More than 5 years	None
11-3031	Financial Managers	5,390	5,490	100	1.86%	140	Bachelor's degree	More than 5 years	None
11-3051	Industrial Production Managers	2,160	2,260	110	4.96%	100	Bachelor's degree	1 to 5 years	None
11-3061	Purchasing Managers	720	750	30	3.60%	30	Bachelor's degree	More than 5 years	None
11-3071	Transportation, Storage, and Distribution Managers	1,080	1,090	20	1.58%	30	High school diploma or equivalent	More than 5 years	None
11-3111	Compensation and Benefits Managers	650	660	10	1.53%	20	Bachelor's degree	1 to 5 years	None
11-3121	Human Resources Managers	1,080	1,110	30	2.70%	40	Bachelor's degree	1 to 5 years	None
11-3131	Training and Development Managers	560	580	20	3.39%	20	Bachelor's degree	1 to 5 years	None
11-9021	Construction Managers	5,600	5,640	40	0.70%	50	Associate's degree	More than 5 years	None
11-9031	Education Administrators, Preschool and Childcare	840	840	0	0.48%	30	Bachelor's degree	1 to 5 years	None
11-9032	Education Administrators, Elementary and Secondary	3,080	3,150	70	2.21%	120	Master's degree	1 to 5 years	None
11-9033	Education Administrators, Postsecondary	1,120	1,140	20	1.96%	40	Master's degree	1 to 5 years	None
11-9039	Education Administrators, All Other	220	220	0	0.92%	10	Bachelor's degree	1 to 5 years	None
11-9041	Architectural and Engineering Managers	2,690	2,820	140	5.10%	120	Bachelor's degree	More than 5 years	None
11-9051	Food Service Managers	3,690	3,660	-20	-0.65%	60	High school diploma or equivalent	1 to 5 years	None
11-9081	Lodging Managers	780	790	10	1.55%	30	High school diploma or equivalent	1 to 5 years	None
11-9111	Medical and Health Services Managers	5,190	5,330	140	2.66%	180	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	330	330	10	1.85%	10	Bachelor's degree	More than 5 years	None
11-9131	Postmasters and Mail Superintendents	520	480	-50	-8.60%	10	High school diploma or equivalent	1 to 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association	6,190	6,190	0	-0.05%	130	High school diploma or equivalent	1 to 5 years	None
11-9151	Social and Community Service Managers	1,320	1,340	20	1.59%	40	Bachelor's degree	1 to 5 years	None
11-9161	Emergency Management Directors	240	250	10	4.60%	10	Bachelor's degree	1 to 5 years	Long-term on-the-job training
11-9199	Managers, All Other	3,030	3,040	0	0.13%	70	High school diploma or equivalent	1 to 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	180	180	0	0.00%	0	High school diploma or equivalent	None	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Product	1,160	1,200	30	2.84%	50	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and I	3,710	3,810	100	2.67%	140	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,610	4,610	0	0.07%	120	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	2,370	2,460	90	3.89%	70	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	1,820	1,870	50	2.97%	60	Bachelor's degree	None	None
13-1078	Human Resources, Training, and Labor Relations S	3,580	3,740	160	4.56%	140	Bachelor's degree	None	None
13-1081	Logisticians	2,210	2,270	60	2.66%	70	Bachelor's degree	1 to 5 years	None
13-1111	Management Analysts	5,290	5,420	130	2.42%	140	Bachelor's degree	1 to 5 years	None
13-1121	Meeting, Convention, and Event Planners	720	760	50	6.41%	40	Bachelor's degree	Less than 1 year	None
13-1141	Compensation, Benefits, and Job Analysis Speciali	1,440	1,490	50	3.62%	50	Bachelor's degree	None	None
13-1151	Training and Development Specialists	3,760	3,930	170	4.50%	140	Bachelor's degree	None	None
13-1161	Market Research Analysts and Marketing Specialist	1,840	1,970	130	6.89%	110	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	7,310	7,340	30	0.41%	140	High school diploma or equivalent	Less than 1 year	Long-term on-the-job training
13-2011	Accountants and Auditors	16,190	16,760	560	3.48%	600	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	1,190	1,220	40	2.95%	40	High school diploma or equivalent	None	Apprenticeship
13-2031	Budget Analysts	730	750	10	1.91%	20	Bachelor's degree	None	None
13-2041	Credit Analysts	600	610	10	2.01%	20	Bachelor's degree	None	None
13-2051	Financial Analysts	1,070	1,110	40	3.84%	40	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	760	790	30	3.93%	20	Bachelor's degree	None	None
13-2053	Insurance Underwriters	1,630	1,650	20	1.23%	60	Bachelor's degree	None	Moderate-term on-the-job training

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		Estimated Employment	Projected Employment	Numeric	Percent				
13-2061	Financial Examiners	270	280	10	2.96%	10	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Credit Counselors	1,160	1,180	20	1.73%	40	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	5,120	5,250	130	2.46%	190	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agent	830	860	30	3.00%	30	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,130	1,150	20	2.13%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	410	410	0	-0.48%	10	Bachelor's degree	None	Moderate-term on-the-job training
15-1111	Computer and Information Research Scientists	170	170	0	-0.59%	0	Doctoral or professional degree	None	None
15-1121	Computer Systems Analysts	3,010	3,110	100	3.32%	100	Bachelor's degree	None	None
15-1131	Computer Programmers	3,010	3,030	20	0.80%	80	Bachelor's degree	None	None
15-1132	Software Developers, Applications	2,580	2,660	80	3.26%	60	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	1,380	1,430	50	3.85%	40	Bachelor's degree	None	None
15-1141	Database Administrators	1,010	1,060	50	4.74%	40	Bachelor's degree	1 to 5 years	None
15-1142	Network and Computer Systems Administrators	2,760	2,890	130	4.71%	110	Bachelor's degree	None	None
15-1150	Computer Support Specialists	6,190	6,350	160	2.60%	230	Some college, no degree	None	Moderate-term on-the-job training
15-1179	Information Security Analysts, Web Developers, and	1,870	1,910	40	2.09%	40	Bachelor's degree	1 to 5 years	None
15-1799	Computer Occupations, All Other	1,370	1,350	-20	-1.17%	20	Bachelor's degree	None	None
15-2031	Operations Research Analysts	430	440	10	2.10%	20	Bachelor's degree	None	None
15-2041	Statisticians	380	390	10	2.09%	10	Master's degree	None	None
17-1011	Architects, Except Landscape and Naval	660	680	20	2.88%	20	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	50	50	0	0.00%	0	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	160	170	10	5.00%	10	Bachelor's degree	None	None
17-1022	Surveyors	660	680	20	3.17%	20	Bachelor's degree	None	None
17-2011	Aerospace Engineers	590	590	10	0.85%	10	Bachelor's degree	None	None
17-2041	Chemical Engineers	290	310	20	6.64%	20	Bachelor's degree	None	None
17-2051	Civil Engineers	2,130	2,190	60	2.86%	70	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	250	250	0	1.63%	10	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,520	1,560	40	2.89%	60	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,680	1,670	0	-0.24%	40	Bachelor's degree	None	None
17-2081	Environmental Engineers	350	370	10	3.99%	10	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety	420	440	20	3.80%	20	Bachelor's degree	None	None
17-2112	Industrial Engineers	1,570	1,650	80	4.97%	70	Bachelor's degree	None	None
17-2141	Mechanical Engineers	2,010	2,110	100	5.02%	110	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining	90	100	10	6.67%	10	Bachelor's degree	None	None
17-2171	Petroleum Engineers	3,350	3,640	290	8.53%	210	Bachelor's degree	None	None
17-2199	Engineers, All Other	1,310	1,330	20	1.76%	40	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	1,120	1,110	-10	-0.45%	20	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	360	370	10	2.53%	10	Associate's degree	None	None
17-3013	Mechanical Drafters	1,190	1,250	60	4.96%	50	Associate's degree	None	None
17-3019	Drafters, All Other	140	140	0	-1.40%	0	Associate's degree	None	None
17-3022	Civil Engineering Technicians	670	690	20	3.14%	20	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,870	1,900	20	1.23%	50	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	400	420	20	4.77%	20	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	710	730	20	3.24%	30	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	430	460	30	6.81%	20	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	970	990	20	2.38%	30	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	730	750	20	2.86%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
19-1012	Food Scientists and Technologists	140	140	0	0.71%	10	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	160	150	-10	-3.23%	10	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	60	70	0	3.12%	0	Doctoral or professional degree	None	None
19-1023	Zoologists and Wildlife Biologists	70	70	0	0.00%	0	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	210	210	0	0.48%	10	Doctoral or professional degree	None	None
19-1031	Conservation Scientists	310	320	10	1.60%	0	Bachelor's degree	None	None
19-1032	Foresters	70	70	0	1.37%	0	Bachelor's degree	None	None
19-2021	Atmospheric and Space Scientists	230	230	0	-1.75%	0	Bachelor's degree	None	None

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19-2031	Chemists	510	530	20	3.52%	30	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including	660	670	10	2.12%	30	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographer	1,440	1,570	130	8.76%	100	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	170	170	0	1.19%	10	Bachelor's degree	None	None
19-3011	Economists	120	120	0	3.39%	10	Bachelor's degree	None	None
19-3022	Survey Researchers	190	190	10	3.78%	10	Bachelor's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	1,220	1,250	30	2.46%	60	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	190	200	10	2.60%	10	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	150	160	10	6.49%	10	Master's degree	None	None
19-3093	Historians	110	110	0	2.83%	10	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	200	200	0	1.53%	10	Bachelor's degree	None	None
19-4011	Agricultural and Food Science Technicians	240	240	0	0.84%	10	Associate's degree	None	None
19-4021	Biological Technicians	800	810	10	1.26%	30	Bachelor's degree	None	None
19-4031	Chemical Technicians	460	480	20	3.47%	20	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	960	1,040	80	8.01%	70	Associate's degree	None	Moderate-term on-the-job training
19-4091	Environmental Science and Protection Technicians,	300	320	10	4.28%	20	Associate's degree	None	Moderate-term on-the-job training
19-4092	Forensic Science Technicians	120	130	0	3.31%	10	Bachelor's degree	None	Moderate-term on-the-job training
19-4093	Forest and Conservation Technicians	240	240	0	0.00%	10	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All (320	310	0	-1.26%	10	Associate's degree	None	Moderate-term on-the-job training
21-1011	Substance Abuse and Behavioral Disorder Counsel	1,190	1,220	30	2.70%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Guidance, School, and Vocational Cou	3,290	3,380	90	2.80%	110	Master's degree	None	None
21-1013	Marriage and Family Therapists	330	340	10	3.96%	10	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	1,450	1,500	50	3.10%	50	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	2,070	2,110	40	2.03%	60	Master's degree	None	None
21-1019	Counselors, All Other	220	220	0	0.93%	10	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	4,690	4,740	50	1.13%	130	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	1,280	1,340	60	4.46%	60	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Worker	1,200	1,230	30	2.41%	40	Bachelor's degree	None	None
21-1029	Social Workers, All Other	860	870	10	0.93%	20	Bachelor's degree	None	None
21-1091	Health Educators	970	1,020	50	5.05%	40	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Spec	930	970	40	3.86%	40	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	3,280	3,330	60	1.68%	90	High school diploma or equivalent	None	Short-term on-the-job training
21-1798	Community and Social Service Specialists, All Othe	780	790	10	1.29%	20	Bachelor's degree	None	None
21-2011	Clergy	980	990	10	1.12%	20	Bachelor's degree	None	Moderate-term on-the-job training
23-1011	Lawyers	8,880	9,080	200	2.26%	260	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	410	420	10	2.20%	10	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Heari	230	230	0	0.44%	0	Bachelor's degree	1 to 5 years	Moderate-term on-the-job training
23-1022	Arbitrators, Mediators, and Conciliators	140	150	0	0.69%	0	Bachelor's degree	1 to 5 years	Moderate-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	540	550	10	1.85%	20	Doctoral or professional degree	More than 5 years	Short-term on-the-job training
23-2011	Paralegals and Legal Assistants	2,550	2,640	100	3.81%	80	Associate's degree	None	None
23-2091	Court Reporters	360	360	10	1.68%	10	Postsecondary non-degree award	None	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	1,130	1,140	20	1.42%	20	High school diploma or equivalent	None	Short-term on-the-job training
23-2099	Legal Support Workers, All Other	230	230	0	-0.87%	0	High school diploma or equivalent	None	Short-term on-the-job training
25-1011	Business Teachers, Postsecondary	1,210	1,230	20	1.74%	30	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	400	410	10	1.74%	10	Doctoral or professional degree	None	None
25-1072	Nursing Instructors and Teachers, Postsecondary	1,230	1,260	30	2.61%	30	Master's degree	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, P	160	160	0	0.64%	0	Doctoral or professional degree	None	None
25-1112	Law Teachers, Postsecondary	130	130	0	2.38%	0	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,000	1,020	20	1.90%	20	Doctoral or professional degree	None	None
25-1122	Communications Teachers, Postsecondary	370	380	10	1.34%	10	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postse	710	720	10	1.12%	10	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postse	240	240	0	1.67%	10	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	300	310	10	1.65%	10	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	280	290	10	2.47%	10	Doctoral or professional degree	None	None

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25-1191	Graduate Teaching Assistants	2,800	2,830	30	1.11%	60	Master's degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	2,330	2,400	60	2.75%	70	Bachelor's degree	1 to 5 years	None
25-1199	Postsecondary Teachers, All Other	1,410	1,430	20	1.63%	30	Master's degree	None	None
25-2011	Preschool Teachers, Except Special Education	4,380	4,420	40	0.89%	130	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	2,200	2,270	80	3.60%	100	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Educ	17,320	17,940	620	3.59%	670	Bachelor's degree	None	Internship/residency
25-2022	Middle School Teachers, Except Special and Caree	7,280	7,540	260	3.57%	280	Bachelor's degree	None	Internship/residency
25-2023	Career/Technical Education Teachers, Middle Scho	220	230	0	1.79%	10	Bachelor's degree	1 to 5 years	Internship/residency
25-2031	Secondary School Teachers, Except Special and C	11,570	11,770	210	1.78%	420	Bachelor's degree	None	Internship/residency
25-2032	Career/Technical Education Teachers, Secondary S	1,080	1,080	10	0.74%	30	Bachelor's degree	1 to 5 years	Internship/residency
25-2041	Special Education Teachers, Preschool, Kindergart	2,130	2,210	90	4.14%	110	Bachelor's degree	None	Internship/residency
25-2053	Special Education Teachers, Middle School	1,030	1,070	40	4.17%	50	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	1,300	1,320	20	1.77%	50	Bachelor's degree	None	Internship/residency
25-3011	Adult Basic and Secondary Education and Literacy	1,190	1,210	30	2.10%	30	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	2,050	2,120	70	3.32%	60	High school diploma or equivalent	1 to 5 years	None
25-3999	Teachers and Instructors, All Other	10,290	10,480	190	1.87%	240	Bachelor's degree	None	None
25-4011	Archivists	100	110	0	0.96%	0	Bachelor's degree	None	None
25-4012	Curators	100	110	0	1.94%	0	Master's degree	None	None
25-4013	Museum Technicians and Conservators	90	90	0	0.00%	0	Bachelor's degree	None	None
25-4021	Librarians	2,250	2,300	50	2.04%	80	Master's degree	None	None
25-4031	Library Technicians	2,110	2,180	70	3.23%	130	Postsecondary non-degree award	None	None
25-9021	Farm and Home Management Advisors	220	220	0	1.36%	10	Master's degree	None	None
25-9031	Instructional Coordinators	1,230	1,260	30	2.36%	40	Master's degree	More than 5 years	None
25-9041	Teacher Assistants	12,700	13,000	300	2.37%	420	High school diploma or equivalent	None	Short-term on-the-job training
27-1011	Art Directors	240	230	0	-0.43%	10	Bachelor's degree	1 to 5 years	None
27-1013	Fine Artists, Including Painters, Sculptors, and Illu	90	90	0	1.16%	0	High school diploma or equivalent	None	Long-term on-the-job training
27-1014	Multi-Media Artists and Animators	90	90	0	0.00%	0	Bachelor's degree	None	Moderate-term on-the-job training
27-1021	Commercial and Industrial Designers	610	630	20	3.97%	30	Bachelor's degree	None	None
27-1023	Floral Designers	1,030	1,000	-30	-2.62%	30	High school diploma or equivalent	None	Short-term on-the-job training
27-1024	Graphic Designers	1,960	1,970	10	0.31%	60	Bachelor's degree	None	None
27-1025	Interior Designers	300	300	0	-0.33%	10	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	430	430	0	0.93%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	110	110	0	1.90%	0	Bachelor's degree	None	None
27-2012	Producers and Directors	670	660	-20	-2.52%	20	Bachelor's degree	1 to 5 years	None
27-2021	Athletes and Sports Competitors	60	60	0	3.23%	0	High school diploma or equivalent	None	Long-term on-the-job training
27-2022	Coaches and Scouts	2,610	2,740	130	4.98%	140	High school diploma or equivalent	None	Long-term on-the-job training
27-2023	Umpires, Referees, and Other Sports Officials	150	160	10	3.29%	10	High school diploma or equivalent	None	Long-term on-the-job training
27-2031	Dancers	50	50	0	2.22%	0	High school diploma or equivalent	None	Long-term on-the-job training
27-2032	Choreographers	60	60	0	6.78%	0	High school diploma or equivalent	More than 5 years	Long-term on-the-job training
27-2041	Music Directors and Composers	750	760	10	0.93%	20	Bachelor's degree	1 to 5 years	None
27-2042	Musicians and Singers	610	610	0	0.33%	20	High school diploma or equivalent	None	Long-term on-the-job training
27-3011	Radio and Television Announcers	640	600	-30	-5.19%	20	Bachelor's degree	None	None
27-3012	Public Address System and Other Announcers	70	70	0	0.00%	0	High school diploma or equivalent	None	Short-term on-the-job training
27-3021	Broadcast News Analysts	70	60	0	-4.55%	0	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	610	590	-20	-3.58%	20	Bachelor's degree	None	None
27-3031	Public Relations Specialists	2,620	2,680	60	2.13%	100	Bachelor's degree	None	Moderate-term on-the-job training
27-3041	Editors	870	860	-10	-1.04%	30	Bachelor's degree	1 to 5 years	None
27-3042	Technical Writers	510	530	20	3.12%	20	Bachelor's degree	1 to 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,520	1,520	0	-0.13%	40	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	270	290	20	5.56%	20	Bachelor's degree	None	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	550	560	10	1.45%	20	Postsecondary non-degree award	None	Moderate-term on-the-job training
27-4012	Broadcast Technicians	370	360	-10	-2.94%	10	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	100	90	-10	-5.10%	0	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,550	1,560	10	0.32%	10	High school diploma or equivalent	None	Long-term on-the-job training

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		Estimated Employment	Projected Employment	Numeric	Percent				
27-4031	Camera Operators, Television, Video, and Motion P	320	310	-10	-4.35%	10	Bachelor's degree	None	Moderate-term on-the-job training
27-4032	Film and Video Editors	340	330	-10	-3.49%	10	Bachelor's degree	1 to 5 years	None
27-4099	Media and Communication Equipment Workers, All	60	60	0	-1.56%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
29-1011	Chiropractors	750	780	20	3.05%	30	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,460	1,490	30	2.26%	60	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	850	870	20	2.70%	40	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	660	690	30	3.79%	30	Doctoral or professional degree	None	None
29-1051	Pharmacists	3,310	3,390	90	2.66%	120	Doctoral or professional degree	None	None
29-1061	Anesthesiologists	150	150	0	2.00%	0	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	2,280	2,350	70	3.16%	80	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	1,120	1,160	30	3.02%	40	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	130	140	10	3.73%	0	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	230	240	10	2.60%	10	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	310	310	10	1.95%	10	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	500	520	20	2.99%	20	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	3,000	3,060	60	2.03%	90	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	1,290	1,330	40	3.18%	40	Master's degree	None	None
29-1111	Registered Nurses	29,370	30,340	970	3.31%	930	Associate's degree	None	None
29-1122	Occupational Therapists	1,250	1,310	60	4.82%	50	Master's degree	None	None
29-1123	Physical Therapists	2,010	2,100	90	4.59%	70	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	410	420	10	2.69%	10	Associate's degree	None	None
29-1125	Recreational Therapists	310	310	0	0.98%	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	1,210	1,260	50	4.15%	50	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,550	1,590	40	2.78%	50	Master's degree	None	None
29-1128	Therapists, all other	90	90	0	3.41%	0	Master's degree	None	None
29-1131	Veterinarians	1,010	1,050	40	3.97%	40	Doctoral or professional degree	None	None
29-1181	Audiologists	200	200	0	0.50%	0	Doctoral or professional degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All OI	190	190	0	1.61%	10	Master's degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	2,010	2,030	30	1.30%	50	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	1,870	1,890	20	1.18%	40	Associate's degree	None	None
29-2021	Dental Hygienists	1,790	1,860	70	4.15%	70	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	580	600	20	4.16%	20	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	530	570	30	6.18%	20	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	210	210	0	1.91%	0	Associate's degree	None	None
29-2037	Radiologic Technologists and Technicians	2,540	2,630	100	3.79%	80	Associate's degree	None	None
29-2041	Emergency Medical Technicians and Paramedics	2,940	3,120	180	5.98%	140	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	580	590	10	1.03%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	4,470	4,630	150	3.42%	140	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	990	1,010	30	2.63%	30	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	270	270	0	0.00%	0	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	1,480	1,510	30	2.23%	40	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	900	960	60	6.31%	40	Associate's degree	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	14,870	15,170	300	2.04%	530	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Techniciar	2,970	3,040	70	2.26%	90	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	870	900	30	2.87%	30	High school diploma or equivalent	None	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	60	60	0	-1.64%	0	Master's degree	None	None
29-2799	Health Technologists and Technicians, All Other	430	440	10	2.56%	10	Postsecondary non-degree award	None	Short-term on-the-job training
29-9011	Occupational Health and Safety Specialists	1,020	1,040	20	1.77%	40	Bachelor's degree	None	Moderate-term on-the-job training
29-9012	Occupational Health and Safety Technicians	160	160	10	3.18%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
29-9091	Athletic Trainers	300	310	10	3.64%	20	Bachelor's degree	None	None
29-9799	Healthcare Practitioners and Technical Workers, AI	130	130	0	-1.50%	0	Bachelor's degree	None	None
31-1011	Home Health Aides	9,120	9,930	800	8.81%	510	Less than high school	None	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	19,800	20,030	230	1.16%	340	Postsecondary non-degree award	None	None
31-1013	Psychiatric Aides	990	1,010	10	1.31%	20	High school diploma or equivalent	None	Short-term on-the-job training

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31-2011	Occupational Therapy Assistants	550	570	20	3.45%	20	Associate's degree	None	None
31-2012	Occupational Therapy Aides	120	120	0	2.48%	0	High school diploma or equivalent	None	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,290	1,350	70	5.13%	50	Associate's degree	None	None
31-2022	Physical Therapist Aides	750	790	40	4.93%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9011	Massage Therapists	550	560	10	1.82%	10	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	3,820	3,930	110	2.99%	130	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	6,560	6,740	180	2.73%	180	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	330	330	10	1.53%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	1,270	1,260	-10	-0.47%	20	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	630	640	20	2.55%	20	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,150	1,160	10	0.78%	20	High school diploma or equivalent	None	Short-term on-the-job training
31-9799	Healthcare Support Workers, All Other	1,600	1,630	20	1.37%	30	High school diploma or equivalent	None	Short-term on-the-job training
33-1011	First-Line Supervisors of Correctional Officers	590	600	10	1.69%	30	High school diploma or equivalent	1 to 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors of Police and Detectives	1,480	1,560	70	4.78%	90	High school diploma or equivalent	1 to 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Prevention	1,700	1,780	80	4.70%	120	Postsecondary non-degree award	1 to 5 years	None
33-1099	First-Line Supervisors of Protective Service Workers	480	490	10	1.66%	20	High school diploma or equivalent	1 to 5 years	None
33-2011	Firefighters	3,360	3,570	210	6.31%	190	Postsecondary non-degree award	None	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	190	200	10	5.88%	10	High school diploma or equivalent	More than 5 years	Moderate-term on-the-job training
33-2022	Forest Fire Inspectors and Prevention Specialists	120	120	0	0.84%	0	High school diploma or equivalent	More than 5 years	Moderate-term on-the-job training
33-3011	Bailiffs	290	300	10	2.05%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	6,260	6,470	220	3.47%	210	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	1,660	1,710	60	3.38%	60	High school diploma or equivalent	1 to 5 years	Moderate-term on-the-job training
33-3031	Fish and Game Wardens	200	200	0	0.00%	0	High school diploma or equivalent	None	Short-term on-the-job training
33-3041	Parking Enforcement Workers	50	60	0	5.77%	0	High school diploma or equivalent	None	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	7,760	8,210	450	5.80%	440	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3052	Transit and Railroad Police	90	90	10	5.81%	0	High school diploma or equivalent	None	Short-term on-the-job training
33-9011	Animal Control Workers	400	420	30	6.33%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigators	350	380	30	7.98%	20	High school diploma or equivalent	None	Short-term on-the-job training
33-9032	Security Guards	10,480	10,770	290	2.78%	300	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	450	460	10	3.13%	20	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Services Workers	1,580	1,630	50	3.36%	190	High school diploma or equivalent	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	910	920	10	0.55%	20	High school diploma or equivalent	1 to 5 years	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	9,890	10,160	260	2.67%	340	High school diploma or equivalent	1 to 5 years	None
35-2011	Cooks, Fast Food	10,050	10,120	70	0.69%	260	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	8,600	8,640	30	0.40%	210	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	12,570	13,060	480	3.83%	520	Less than high school	Less than 1 year	Moderate-term on-the-job training
35-2015	Cooks, Short Order	1,360	1,390	30	2.13%	40	Less than high school	None	Short-term on-the-job training
35-2021	Food Preparation Workers	7,280	7,460	170	2.39%	390	Less than high school	None	Short-term on-the-job training
35-3011	Bartenders	4,560	4,650	90	1.97%	200	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Except Short Order Cooks	29,450	30,660	1,210	4.11%	1,570	Less than high school	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Sales Workers	4,990	5,050	60	1.24%	610	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	31,260	32,180	930	2.96%	2,120	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,480	1,510	30	1.95%	60	Less than high school	None	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartending Workers	4,040	4,120	80	2.03%	250	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	5,050	5,170	120	2.34%	370	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	4,180	4,280	100	2.44%	480	Less than high school	None	None
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,890	2,890	-10	-0.21%	30	High school diploma or equivalent	1 to 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Maintenance, and Greenhouse and Nursery Workers	2,490	2,530	50	1.93%	50	High school diploma or equivalent	1 to 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	23,190	23,550	360	1.54%	580	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	11,140	11,250	110	0.99%	220	Less than high school	None	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	80	80	0	1.27%	0	High school diploma or equivalent	None	Short-term on-the-job training
37-2021	Pest Control Workers	740	770	30	3.64%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	11,480	11,790	320	2.75%	350	Less than high school	None	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	640	640	0	0.31%	10	High school diploma or equivalent	None	Moderate-term on-the-job training

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37-3013	Tree Trimmers and Pruners	1,610	1,650	40	2.61%	50	High school diploma or equivalent	None	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	220	220	0	1.38%	10	Less than high school	None	Short-term on-the-job training
39-1011	Gaming Supervisors	640	670	30	4.84%	30	High school diploma or equivalent	1 to 5 years	None
39-1012	Slot Supervisors	740	770	30	4.49%	30	High school diploma or equivalent	1 to 5 years	None
39-1021	First-Line Supervisors of Personal Service Workers	1,590	1,600	10	0.75%	40	High school diploma or equivalent	1 to 5 years	None
39-2011	Animal Trainers	860	850	-10	-1.16%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	2,010	2,080	60	3.13%	80	Less than high school	None	Short-term on-the-job training
39-3011	Gaming Dealers	1,250	1,350	100	7.76%	110	High school diploma or equivalent	None	Moderate-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	490	510	20	4.71%	40	High school diploma or equivalent	None	Short-term on-the-job training
39-3019	Gaming Service Workers, All Other	70	80	10	6.85%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
39-3021	Motion Picture Projectionists	160	150	-10	-7.64%	10	Less than high school	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	730	710	-20	-2.76%	60	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	2,030	2,080	50	2.56%	170	Less than high school	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	190	190	10	2.67%	20	High school diploma or equivalent	None	Short-term on-the-job training
39-4831	Funeral service managers, directors, morticians, and embalmers	530	540	10	2.10%	20	Associate's degree	None	Apprenticeship
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,820	3,880	50	1.36%	100	Postsecondary non-degree award	None	None
39-6011	Baggage Porters and Bellhops	290	300	10	2.75%	10	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	90	90	0	1.10%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9011	Childcare Workers	12,800	12,930	130	1.04%	480	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	9,190	9,940	750	8.11%	430	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	2,980	3,040	60	2.15%	80	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	3,600	3,650	60	1.56%	80	Bachelor's degree	None	None
39-9041	Residential Advisors	670	680	10	1.34%	30	Some college, no degree	Less than 1 year	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	530	530	0	-0.38%	10	High school diploma or equivalent	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	23,840	23,950	110	0.47%	590	High school diploma or equivalent	1 to 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	3,440	3,440	0	-0.12%	80	High school diploma or equivalent	More than 5 years	None
41-2011	Cashiers	39,700	40,300	590	1.50%	2,610	Less than high school	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	800	850	60	7.17%	70	High school diploma or equivalent	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	4,280	4,310	30	0.65%	130	Less than high school	None	Short-term on-the-job training
41-2022	Parts Salespersons	4,090	4,170	70	1.76%	210	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	50,990	51,620	630	1.23%	1,880	Less than high school	None	Short-term on-the-job training
41-3011	Advertising Sales Agents	1,340	1,340	10	0.52%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5,520	5,740	210	3.88%	230	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,680	1,690	10	0.78%	50	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	470	460	-10	-2.35%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	2,520	2,550	30	1.23%	90	High school diploma or equivalent	None	Short-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Except Wholesale Sales	6,230	6,470	240	3.77%	260	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Wholesale Sales	16,280	16,900	620	3.83%	680	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9011	Demonstrators and Product Promoters	310	320	10	3.57%	20	High school diploma or equivalent	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,830	1,830	0	-0.05%	40	High school diploma or equivalent	1 to 5 years	None
41-9022	Real Estate Sales Agents	5,260	5,320	60	1.05%	140	High school diploma or equivalent	None	Long-term on-the-job training
41-9031	Sales Engineers	280	290	20	6.14%	20	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	5,700	5,610	-90	-1.60%	140	Less than high school	None	Short-term on-the-job training
41-9799	Sales and Related Workers, All Other	2,230	2,260	30	1.43%	70	High school diploma or equivalent	None	Moderate-term on-the-job training
43-1011	First-Line Supervisors of Office and Administrative Support Workers	17,430	17,780	360	2.05%	620	High school diploma or equivalent	1 to 5 years	None
43-2011	Switchboard Operators, Including Answering Machine Operators	1,880	1,790	-90	-4.79%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-3011	Bill and Account Collectors	4,840	4,890	50	1.03%	120	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	5,680	5,870	190	3.27%	180	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	36,290	37,080	790	2.18%	790	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	760	810	60	7.25%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	3,180	3,260	90	2.68%	110	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,610	1,620	10	0.74%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	8,170	8,170	0	0.00%	370	High school diploma or equivalent	None	Short-term on-the-job training
43-4021	Correspondence Clerks	190	190	0	0.54%	10	High school diploma or equivalent	None	Short-term on-the-job training

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		Estimated Employment	Projected Employment	Numeric	Percent				
43-4031	Court, Municipal, and License Clerks	2,350	2,450	100	4.29%	120	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	290	290	0	0.69%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	26,250	26,800	550	2.10%	1,000	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	430	440	10	1.62%	20	Associate's degree	None	Moderate-term on-the-job training
43-4071	File Clerks	2,270	2,250	-30	-1.19%	70	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,840	2,920	90	3.10%	170	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1,460	1,490	30	1.98%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,510	1,580	60	4.23%	110	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	1,940	1,910	-30	-1.29%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	830	830	0	0.00%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-4151	Order Clerks	2,400	2,440	40	1.46%	90	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and T	2,140	2,180	40	2.01%	80	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	10,520	10,820	300	2.81%	480	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,880	1,860	-20	-1.07%	50	High school diploma or equivalent	None	Short-term on-the-job training
43-5011	Cargo and Freight Agents	500	510	10	2.63%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	1,190	1,190	10	0.67%	30	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,700	1,810	110	6.72%	90	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	1,790	1,840	50	2.74%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	760	800	40	4.84%	40	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	640	550	-90	-13.79%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	3,700	3,530	-170	-4.54%	120	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Proce:	1,350	1,170	-180	-13.61%	10	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	2,890	2,970	80	2.74%	110	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	8,210	8,290	80	1.02%	250	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	18,170	17,990	-180	-0.99%	460	Less than high school	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Re	710	710	0	-0.14%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-6011	Executive Secretaries and Executive Administrative	13,950	14,190	240	1.74%	310	High school diploma or equivalent	1 to 5 years	None
43-6012	Legal Secretaries	2,800	2,850	50	1.75%	60	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	4,590	4,820	230	5.03%	180	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except L	26,940	27,030	90	0.32%	400	High school diploma or equivalent	None	Short-term on-the-job training
43-9011	Computer Operators	1,500	1,460	-40	-2.80%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	2,660	2,620	-40	-1.58%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	570	560	-20	-2.61%	0	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	100	100	0	-0.96%	0	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,790	1,820	30	1.79%	70	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Po	1,110	1,130	20	1.53%	30	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	40,860	41,690	830	2.04%	1,110	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	560	550	-10	-1.78%	20	High school diploma or equivalent	None	Short-term on-the-job training
43-9799	Office and Administrative Support Workers, All Othe	920	940	20	2.28%	30	High school diploma or equivalent	None	Short-term on-the-job training
45-1011	First-Line Supervisors of Farming, Fishing, and For	1,010	1,000	-10	-0.50%	30	High school diploma or equivalent	1 to 5 years	None
45-2011	Agricultural Inspectors	160	160	0	0.00%	0	Bachelor's degree	None	Moderate-term on-the-job training
45-2021	Animal Breeders	800	780	-20	-2.88%	30	High school diploma or equivalent	1 to 5 years	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	510	510	0	-0.59%	10	Less than high school	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	1,180	1,170	-10	-1.02%	40	Less than high school	Less than 1 year	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Gre	12,400	12,230	-170	-1.39%	400	Less than high school	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Anim	3,580	3,600	20	0.45%	120	Less than high school	None	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	330	330	0	-0.60%	10	Less than high school	None	Short-term on-the-job training
47-1011	First-Line Supervisors of Construction Trades and E	9,760	9,960	200	2.01%	320	High school diploma or equivalent	More than 5 years	None
47-2011	Boilermakers	350	360	10	1.42%	20	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	1,050	1,070	30	2.68%	40	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	330	330	0	-0.91%	10	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	11,020	11,070	50	0.43%	250	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	350	340	-10	-1.71%	10	Less than high school	None	Short-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	340	330	-10	-1.78%	10	High school diploma or equivalent	None	Moderate-term on-the-job training

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		Estimated Employment	Projected Employment	Numeric	Percent				
47-2043	Floor Sanders and Finishers	180	180	0	-0.56%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	600	610	10	0.83%	20	Less than high school	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	3,120	3,150	40	1.12%	60	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	13,150	13,300	150	1.13%	160	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operat	1,970	1,990	20	1.17%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2072	Pile-Driver Operators	50	50	0	4.00%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipr	4,900	5,040	150	3.00%	180	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	1,300	1,310	10	0.46%	40	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	7,640	7,670	30	0.41%	210	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	310	320	10	2.89%	20	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	410	410	0	0.00%	20	Less than high school	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	310	320	0	0.64%	10	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	5,620	5,630	10	0.23%	120	Less than high school	None	Moderate-term on-the-job training
47-2151	Pipelayers	1,150	1,190	40	3.49%	50	High school diploma or equivalent	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5,660	5,720	60	1.04%	190	High school diploma or equivalent	None	Apprenticeship
47-2161	Plasterers and Stucco Masons	440	430	-10	-1.83%	10	Less than high school	None	Long-term on-the-job training
47-2171	Reinforcing Iron and Rebar Workers	60	60	0	4.92%	0	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	1,630	1,620	-20	-1.16%	30	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,900	3,930	30	0.67%	80	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	760	760	0	-0.39%	10	High school diploma or equivalent	None	Apprenticeship
47-3011	Helpers--Brickmasons, Blockmasons, Stonemason:	330	350	20	4.49%	20	Less than high school	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	670	700	30	4.33%	30	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	1,230	1,230	0	0.08%	40	High school diploma or equivalent	None	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and S	60	60	0	0.00%	0	Less than high school	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Ste	680	700	20	2.64%	30	High school diploma or equivalent	None	Short-term on-the-job training
47-3016	Helpers--Roofers	60	60	0	-3.17%	0	Less than high school	None	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	360	360	0	0.28%	10	Less than high school	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	1,010	1,050	50	4.77%	50	High school diploma or equivalent	More than 5 years	Moderate-term on-the-job training
47-4031	Fence Erectors	470	470	0	0.43%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	290	290	10	2.08%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3,250	3,460	210	6.55%	180	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Ope	580	530	-50	-8.85%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	590	620	30	5.63%	30	Less than high school	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	1,230	1,360	120	9.89%	90	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	2,710	2,970	260	9.40%	180	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	3,860	4,230	380	9.72%	260	Less than high school	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	680	710	30	4.89%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, a	620	610	-10	-1.45%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5042	Mine Cutting and Channeling Machine Operators	80	80	0	-2.53%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	410	400	0	-0.99%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	5,830	6,350	520	8.94%	380	Less than high school	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	1,190	1,300	110	8.81%	80	High school diploma or equivalent	None	Short-term on-the-job training
47-5099	Extraction Workers, All Other	70	70	0	6.15%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-1011	First-Line Supervisors of Mechanics, Installers, and	5,500	5,580	80	1.38%	170	High school diploma or equivalent	1 to 5 years	None
49-2011	Computer, Automated Teller, and Office Machine R	1,000	1,000	10	0.70%	30	Postsecondary non-degree award	None	None
49-2022	Telecommunications Equipment Installers and Rep:	1,980	1,960	-20	-0.91%	30	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2092	Electric Motor, Power Tool, and Related Repairers	220	210	-10	-2.33%	0	Postsecondary non-degree award	None	Long-term on-the-job training
49-2093	Electrical and Electronics Installers and Repairers, ^	80	80	0	-4.76%	0	Postsecondary non-degree award	None	Long-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial a	1,520	1,520	0	0.26%	40	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, S	260	270	10	4.31%	10	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motc	270	260	0	-0.75%	10	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installer	520	530	10	1.93%	20	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	700	730	30	4.15%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	5,990	5,920	-70	-1.18%	170	Postsecondary non-degree award	None	None

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		Estimated Employment	Projected Employment	Numeric	Percent				
49-3021	Automotive Body and Related Repairers	2,200	2,200	10	0.23%	60	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	120	120	0	0.83%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	9,410	9,490	80	0.89%	280	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Speci	3,870	3,960	90	2.25%	120	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Techniciai	390	410	20	5.08%	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engin	1,700	1,750	60	3.48%	70	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	160	150	0	-2.55%	0	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	170	170	0	1.18%	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	350	350	10	1.44%	10	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine	390	400	10	1.80%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3093	Tire Repairers and Changers	1,060	1,070	0	0.28%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9011	Mechanical Door Repairers	310	310	0	0.97%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except I	1,020	1,030	10	0.79%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechar	3,340	3,430	90	2.63%	100	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	780	780	0	0.13%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	4,940	5,250	310	6.28%	250	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	1,570	1,610	40	2.74%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9044	Millwrights	120	120	0	-1.69%	0	High school diploma or equivalent	None	Long-term on-the-job training
49-9045	Refractory Materials Repairers, Except Brickmason:	100	100	0	2.00%	0	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	1,680	1,740	60	3.51%	80	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,990	1,940	-50	-2.27%	30	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	470	490	20	4.27%	20	Associate's degree	None	Moderate-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All	230	230	0	0.43%	10	Associate's degree	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,150	16,540	390	2.41%	460	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers	520	550	30	5.17%	20	High school diploma or equivalent	None	Short-term on-the-job training
49-9096	Riggers	120	120	0	0.84%	0	High school diploma or equivalent	None	Short-term on-the-job training
49-9097	Signal and Track Switch Repairers	110	100	-10	-7.48%	0	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Wor	2,920	2,980	60	1.88%	190	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9799	Installation, Maintenance, and Repair Workers, All C	1,620	1,640	20	1.36%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating	7,640	7,840	210	2.71%	200	Postsecondary non-degree award	1 to 5 years	None
51-2021	Coil Winders, Tapers, and Finishers	200	200	0	-0.99%	0	High school diploma or equivalent	None	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	1,350	1,420	70	5.26%	60	High school diploma or equivalent	None	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	650	690	40	6.16%	30	High school diploma or equivalent	None	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	300	340	40	11.67%	20	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,630	1,740	110	6.51%	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	260	260	10	1.96%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	16,460	17,350	880	5.36%	770	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	670	690	20	2.83%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	1,690	1,700	0	0.12%	50	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,530	1,500	-30	-2.22%	40	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	870	890	10	1.49%	30	Less than high school	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	770	790	20	2.86%	30	Less than high school	None	Moderate-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying M:	360	370	10	3.65%	20	Less than high school	None	Moderate-term on-the-job training
51-3092	Food Batchmakers	700	710	10	1.00%	20	High school diploma or equivalent	Less than 1 year	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	600	610	10	1.33%	20	High school diploma or equivalent	Less than 1 year	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metz	1,370	1,480	110	8.26%	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Pro	270	300	30	9.52%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators,	880	910	30	3.39%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, I	180	180	10	2.79%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, N	330	340	10	3.68%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Ope	1,850	1,910	70	3.57%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators	430	450	10	3.24%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine T	1,290	1,320	30	2.41%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators	790	860	70	8.31%	60	High school diploma or equivalent	None	Moderate-term on-the-job training

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51-4035	Milling and Planing Machine Setters, Operators, and Machinists	300	310	10	3.31%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	6,200	6,560	360	5.74%	290	High school diploma or equivalent	None	Long-term on-the-job training
51-4052	Pourers and Casters, Metal	100	100	0	4.12%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	110	110	0	2.73%	0	High school diploma or equivalent	None	Long-term on-the-job training
51-4071	Foundry Mold and Coremakers	220	230	10	5.58%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters	910	950	40	4.27%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders	900	940	40	4.33%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	380	390	10	3.70%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	11,470	12,090	610	5.35%	610	High school diploma or equivalent	Less than 1 year	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	780	800	30	3.61%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders	370	380	10	2.99%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4192	Lay-Out Workers, Metal and Plastic	100	110	10	8.00%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders	370	380	10	2.96%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	200	210	20	8.21%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	180	190	0	1.09%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	500	460	-30	-6.64%	10	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,790	1,670	-110	-6.33%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	280	260	-20	-8.21%	10	High school diploma or equivalent	None	Short-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	3,070	3,040	-30	-0.98%	50	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	930	910	-20	-2.58%	10	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	1,000	980	-20	-2.30%	10	Less than high school	None	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	110	100	0	-1.90%	0	Less than high school	None	Moderate-term on-the-job training
51-6093	Upholsterers	550	540	-10	-1.09%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	910	890	-10	-1.22%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Woodworking	550	520	-30	-5.28%	10	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders	270	250	-10	-5.26%	0	High school diploma or equivalent	None	Short-term on-the-job training
51-7099	Woodworkers, All Other	170	170	-10	-3.51%	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8012	Power Distributors and Dispatchers	90	90	0	1.09%	0	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	290	300	10	3.14%	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	390	400	10	2.81%	20	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	2,160	2,310	150	6.75%	130	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	430	450	20	5.14%	30	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Chemists	2,030	2,080	60	2.86%	100	High school diploma or equivalent	None	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	100	100	0	-0.96%	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	410	450	40	9.05%	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Stripping Machine Setters, Operators, and Tenders	290	310	20	5.15%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	600	600	-10	-1.16%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	400	410	10	2.51%	20	Less than high school	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,300	1,320	20	1.54%	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	160	160	0	-0.62%	0	Less than high school	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	610	620	0	0.33%	20	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	910	910	0	-0.33%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	580	560	-10	-2.25%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6,880	7,110	230	3.33%	260	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	200	200	0	-0.51%	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	440	430	-10	-1.59%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	70	70	0	0.00%	0	High school diploma or equivalent	None	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	350	350	10	1.73%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	3,350	3,420	70	2.03%	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,710	1,800	90	5.28%	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	780	780	0	0.13%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	270	280	10	5.24%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	660	640	-20	-2.58%	20	High school diploma or equivalent	None	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	210	210	0	0.97%	10	Less than high school	None	Moderate-term on-the-job training

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51-9193	Cooling and Freezing Equipment Operators and Te	290	290	10	2.81%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and F	820	790	-30	-3.64%	20	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenc	1,210	1,220	10	0.75%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	6,090	6,270	180	3.02%	210	Less than high school	None	Short-term on-the-job training
51-9399	Production Workers, All Other	1,740	1,770	30	1.90%	60	High school diploma or equivalent	None	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	70	70	0	-1.52%	0	High school diploma or equivalent	1 to 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Me	1,870	1,940	80	4.02%	70	High school diploma or equivalent	1 to 5 years	None
53-1031	First-Line Supervisors of Transportation and Materic	3,100	3,130	30	1.00%	70	High school diploma or equivalent	1 to 5 years	None
53-2011	Airline Pilots, Copilots, and Flight Engineers	200	200	0	-0.49%	10	Bachelor's degree	1 to 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	510	520	10	1.37%	20	Postsecondary non-degree award	None	None
53-2021	Air Traffic Controllers	420	420	0	0.24%	20	Associate's degree	None	Long-term on-the-job training
53-3011	Ambulance Drivers and Attendants, Except Emerge	360	380	20	5.03%	20	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	1,070	1,110	40	3.65%	40	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	4,420	4,420	10	0.18%	80	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	5,640	5,800	170	2.96%	190	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	24,680	25,490	820	3.31%	860	High school diploma or equivalent	1 to 5 years	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	7,860	7,940	80	1.01%	190	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,250	1,270	20	1.93%	30	Less than high school	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	310	310	0	1.29%	10	High school diploma or equivalent	None	Short-term on-the-job training
53-4011	Locomotive Engineers	340	320	-20	-6.80%	10	High school diploma or equivalent	1 to 5 years	Moderate-term on-the-job training
53-4031	Railroad Conductors and Yardmasters	280	260	-20	-7.04%	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6021	Parking Lot Attendants	900	890	-10	-1.00%	30	Less than high school	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	700	720	20	3.00%	40	Less than high school	None	Short-term on-the-job training
53-6041	Traffic Technicians	260	270	0	1.53%	10	Less than high school	None	Short-term on-the-job training
53-6051	Transportation Inspectors	360	370	10	1.37%	10	Some college, no degree	None	Short-term on-the-job training
53-6061	Transportation Attendants, Except Flight Attendants	80	70	0	-1.33%	0	High school diploma or equivalent	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	610	620	10	0.98%	20	Less than high school	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	440	450	10	2.53%	20	Less than high school	1 to 5 years	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Ope	2,330	2,370	40	1.72%	90	Less than high school	1 to 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	5,130	5,250	120	2.32%	200	Less than high school	Less than 1 year	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	3,390	3,420	30	0.77%	130	Less than high school	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, I	25,670	26,320	650	2.53%	1,160	Less than high school	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	880	850	-30	-3.64%	20	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	5,470	5,440	-40	-0.64%	160	Less than high school	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operat	290	290	10	1.74%	10	Less than high school	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumps	630	670	40	6.48%	40	Less than high school	None	Moderate-term on-the-job training
53-7073	Wellhead Pumps	1,820	1,950	120	6.81%	120	Less than high school	Less than 1 year	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	2,090	2,180	100	4.60%	110	Less than high school	None	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	100	100	0	0.98%	0	Less than high school	None	Short-term on-the-job training