

OKLAHOMA LONG-TERM OCCUPATIONAL OUTLOOK, 2006 - 20016

Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Average Annual Openings	Educational Attainment
		2006	2016	Numeric	Percent		
00-0000	Total, All Occupations	1,687,270	1,861,510	174,240	10.33%	56,200	
11-1011	Chief Executives	11,540	11,710	170	1.47%	340	Bachelor's or higher degree, plus work experience
11-1021	General and Operations Managers	28,510	28,710	200	0.70%	710	Bachelor's or higher degree, plus work experience
11-1031	Legislators	980	980	0	0.00%	20	Bachelor's or higher degree, plus work experience
11-2011	Advertising and Promotions Managers	420	420	0	0.00%	10	Bachelor's or higher degree, plus work experience
11-2021	Marketing Managers	1,110	1,220	110	9.91%	40	Bachelor's or higher degree, plus work experience
11-2022	Sales Managers	3,170	3,470	300	9.46%	100	Bachelor's or higher degree, plus work experience
11-2031	Public Relations Managers	550	620	70	12.73%	20	Bachelor's or higher degree, plus work experience
11-3011	Administrative Services Managers	3,400	3,750	350	10.29%	130	Bachelor's or higher degree, plus work experience
11-3021	Computer and Information Systems Managers	2,130	2,350	220	10.33%	60	Bachelor's or higher degree, plus work experience
11-3031	Financial Managers	5,570	6,110	540	9.69%	140	Bachelor's or higher degree, plus work experience
11-3041	Compensation and Benefits Managers	770	850	80	10.39%	30	Bachelor's or higher degree, plus work experience
11-3042	Training and Development Managers	390	440	50	12.82%	20	Bachelor's or higher degree, plus work experience
11-3049	Human Resources Managers, All Other	570	610	40	7.02%	20	Bachelor's or higher degree, plus work experience
11-3051	Industrial Production Managers	1,480	1,530	50	3.38%	60	Work experience in a related occupation
11-3061	Purchasing Managers	730	760	30	4.11%	30	Bachelor's or higher degree, plus work experience
11-3071	Transportation, Storage, and Distribution Managers	1,180	1,270	90	7.63%	50	Work experience in a related occupation
11-9011	Farm, Ranch, and Other Agricultural Managers	7,370	8,130	760	10.31%	140	Bachelor's or higher degree, plus work experience
11-9021	Construction Managers	4,810	5,720	910	18.92%	170	Bachelor's degree
11-9031	Education Administrators, Preschool and Child Care Center/Program	760	840	80	10.53%	30	Bachelor's or higher degree, plus work experience
11-9032	Education Administrators, Elementary and Secondary School	2,740	3,020	280	10.22%	110	Bachelor's or higher degree, plus work experience
11-9033	Education Administrators, Postsecondary	1,660	1,880	220	13.25%	70	Bachelor's or higher degree, plus work experience
11-9039	Education Administrators, All Other	300	330	30	10.00%	20	Bachelor's or higher degree, plus work experience
11-9041	Engineering Managers	1,570	1,690	120	7.64%	50	Bachelor's or higher degree, plus work experience
11-9051	Food Service Managers	5,250	5,650	400	7.62%	170	Work experience in a related occupation
11-9061	Funeral Directors	530	620	90	16.98%	30	Associate degree
11-9081	Lodging Managers	1,270	1,370	100	7.87%	40	Work experience in a related occupation
11-9111	Medical and Health Services Managers	3,740	4,190	450	12.03%	120	Bachelor's or higher degree, plus work experience
11-9121	Natural Sciences Managers	310	350	40	12.90%	20	Bachelor's or higher degree, plus work experience
11-9131	Postmasters and Mail Superintendents	560	540	-20	-3.57%	20	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	4,990	5,380	390	7.82%	110	Bachelor's degree
11-9151	Social and Community Service Managers	1,420	1,650	230	16.20%	50	Bachelor's degree
11-9199	Managers, All Other	4,170	4,560	390	9.35%	130	Work experience in a related occupation
13-1021	Purchasing Agents and Buyers, Farm Products	290	260	-30	-10.34%	10	Work experience in a related occupation
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,760	1,690	-70	-3.98%	40	Work experience in a related occupation
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	3,260	3,350	90	2.76%	80	Work experience in a related occupation
13-1031	Claims Adjusters, Examiners, and Investigators	3,710	4,070	360	9.70%	130	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	450	500	50	11.11%	20	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, Cost Estimators	3,180	3,380	200	6.29%	60	Long-term on-the-job training
13-1051	Cost Estimators	1,650	2,020	370	22.42%	80	Work experience in a related occupation

Occupation Code	Occupation Title	Employment		Employment Change, 2006-2016		Average Annual Openings	Educational Attainment
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13-1071	Employment, Recruitment, and Placement Specialists	1,540	1,720	180	11.69%	60	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	1,250	1,400	150	12.00%	50	Bachelor's degree
13-1073	Training and Development Specialists	3,050	3,600	550	18.03%	130	Bachelor's degree
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	1,510	1,650	140	9.27%	50	Bachelor's degree
13-1081	Logisticians	1,830	2,130	300	16.39%	60	Bachelor's degree
13-1111	Management Analysts	6,100	6,790	690	11.31%	180	Bachelor's or higher degree, plus work experience
13-1121	Meeting and Convention Planners	370	410	40	10.81%	20	Bachelor's degree
13-1199	Business Operations Specialists, All Other	5,900	6,890	990	16.78%	170	Bachelor's degree
13-2011	Accountants and Auditors	16,410	18,760	2,350	14.32%	530	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	1,020	1,140	120	11.76%	40	Postsecondary vocational training
13-2031	Budget Analysts	580	630	50	8.62%	20	Bachelor's degree
13-2041	Credit Analysts	940	920	-20	-2.13%	40	Bachelor's degree
13-2051	Financial Analysts	980	1,140	160	16.33%	30	Bachelor's degree
13-2052	Personal Financial Advisors	1,200	1,330	130	10.83%	30	Bachelor's degree
13-2053	Insurance Underwriters	1,340	1,410	70	5.22%	50	Bachelor's degree
13-2061	Financial Examiners	270	330	60	22.22%	20	Bachelor's degree
13-2071	Loan Counselors	580	620	40	6.90%	10	Bachelor's degree
13-2072	Loan Officers	3,680	4,100	420	11.41%	90	Bachelor's degree
13-2081	Tax Examiners, Collectors, and Revenue Agents	900	990	90	10.00%	40	Bachelor's degree
13-2082	Tax Preparers	890	810	-80	-8.99%	20	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	340	370	30	8.82%	20	Bachelor's degree
15-1011	Computer and Information Scientists, Research	170	190	20	11.76%	10	Doctoral degree
15-1021	Computer Programmers	3,600	3,250	-350	-9.72%	80	Bachelor's degree
15-1031	Computer Software Engineers, Applications	2,180	3,030	850	38.99%	120	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	1,640	2,000	360	21.95%	60	Bachelor's degree
15-1041	Computer Support Specialists	9,180	10,390	1,210	13.18%	410	Associate degree
15-1051	Computer Systems Analysts	3,650	4,570	920	25.21%	190	Bachelor's degree
15-1061	Database Administrators	1,140	1,410	270	23.68%	40	Bachelor's degree
15-1071	Network and Computer Systems Administrators	2,980	3,610	630	21.14%	140	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	2,090	3,090	1,000	47.85%	150	Bachelor's degree
15-1099	Computer Specialists, All Other	1,330	1,450	120	9.02%	50	Associate degree
15-2011	Actuaries	60	60	0	0.00%	10	Bachelor's or higher degree, plus work experience
15-2031	Operations Research Analysts	330	340	10	3.03%	10	Master's degree
15-2041	Statisticians	220	230	10	4.55%	10	Master's degree
17-1011	Architects, Except Landscape and Naval	1,270	1,570	300	23.62%	60	Bachelor's degree
17-1022	Surveyors	470	610	140	29.79%	30	Bachelor's degree
17-2011	Aerospace Engineers	920	1,120	200	21.74%	40	Bachelor's degree
17-2031	Biomedical Engineers	140	170	30	21.43%	10	Bachelor's degree
17-2041	Chemical Engineers	240	270	30	12.50%	10	Bachelor's degree
17-2051	Civil Engineers	1,460	1,740	280	19.18%	70	Bachelor's degree
17-2061	Computer Hardware Engineers	300	300	0	0.00%	10	Bachelor's degree
17-2071	Electrical Engineers	870	970	100	11.49%	30	Bachelor's degree

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17-2072	Electronics Engineers, Except Computer	1,800	1,980	180	10.00%	60	Bachelor's degree
17-2081	Environmental Engineers	230	270	40	17.39%	20	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspec	360	390	30	8.33%	20	Bachelor's degree
17-2112	Industrial Engineers	1,440	1,840	400	27.78%	80	Bachelor's degree
17-2131	Materials Engineers	130	150	20	15.38%	10	Bachelor's degree
17-2141	Mechanical Engineers	2,130	2,310	180	8.45%	70	Bachelor's degree
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	290	330	40	13.79%	20	Bachelor's degree
17-2171	Petroleum Engineers	2,160	2,480	320	14.81%	90	Bachelor's degree
17-2199	Engineers, All Other	850	920	70	8.24%	20	Bachelor's degree
17-3011	Architectural and Civil Drafters	1,160	1,250	90	7.76%	50	Postsecondary vocational training
17-3012	Electrical and Electronics Drafters	390	410	20	5.13%	20	Postsecondary vocational training
17-3013	Mechanical Drafters	1,450	1,620	170	11.72%	60	Postsecondary vocational training
17-3022	Civil Engineering Technicians	980	1,170	190	19.39%	40	Associate degree
17-3023	Electrical and Electronic Engineering Technicians	1,770	1,910	140	7.91%	50	Associate degree
17-3024	Electro-Mechanical Technicians	250	300	50	20.00%	10	Associate degree
17-3025	Environmental Engineering Technicians	160	190	30	18.75%	10	Associate degree
17-3027	Mechanical Engineering Technicians	490	560	70	14.29%	20	Associate degree
17-3029	Engineering Technicians, Except Drafters, All Other	560	590	30	5.36%	20	Associate degree
17-3031	Surveying and Mapping Technicians	700	830	130	18.57%	30	Moderate-term on-the-job training
19-1012	Food Scientists and Technologists	70	80	10	14.29%	10	Bachelor's degree
19-1013	Soil and Plant Scientists	130	140	10	7.69%	10	Bachelor's degree
19-1021	Biochemists and Biophysicists	230	290	60	26.09%	20	Doctoral degree
19-1022	Microbiologists	60	70	10	16.67%	10	Doctoral degree
19-1023	Zoologists and Wildlife Biologists	70	80	10	14.29%	10	Bachelor's degree
19-1029	Biological Scientists, All Other	170	180	10	5.88%	10	Bachelor's degree
19-1031	Conservation Scientists	500	550	50	10.00%	20	Bachelor's degree
19-1032	Foresters	50	60	10	20.00%	10	Bachelor's degree
19-1042	Medical Scientists, Except Epidemiologists	1,150	1,400	250	21.74%	60	Doctoral degree
19-2021	Atmospheric and Space Scientists	240	280	40	16.67%	10	Bachelor's degree
19-2031	Chemists	330	350	20	6.06%	20	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	1,670	1,930	260	15.57%	70	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	1,070	1,250	180	16.82%	50	Master's degree
19-2043	Hydrologists	60	60	0	0.00%	10	Master's degree
19-2099	Physical Scientists, All Other	80	80	0	0.00%	10	Bachelor's degree
19-3011	Economists	90	90	0	0.00%	10	Master's degree
19-3021	Market Research Analysts	2,160	2,380	220	10.19%	40	Bachelor's degree
19-3022	Survey Researchers	260	290	30	11.54%	10	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	1,800	2,090	290	16.11%	60	Doctoral degree
19-3039	Psychologists, All Other	110	110	0	0.00%	10	Master's degree
19-3051	Urban and Regional Planners	330	390	60	18.18%	20	Master's degree
19-3093	Historians	70	80	10	14.29%	10	Master's degree
19-3099	Social Scientists and Related Workers, All Other	220	240	20	9.09%	10	Master's degree
19-4011	Agricultural and Food Science Technicians	180	200	20	11.11%	10	Associate degree

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19-4021	Biological Technicians	900	1,100	200	22.22%	60	Associate degree
19-4031	Chemical Technicians	490	550	60	12.24%	30	Associate degree
19-4041	Geological and Petroleum Technicians	820	940	120	14.63%	50	Associate degree
19-4091	Environmental Science and Protection Technicians, Including Health	290	360	70	24.14%	20	Associate degree
19-4092	Forensic Science Technicians	130	170	40	30.77%	10	Associate degree
19-4093	Forest and Conservation Technicians	210	220	10	4.76%	10	Associate degree
19-4099	Life, Physical, and Social Science Technicians, All Other	280	310	30	10.71%	20	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	1,030	1,270	240	23.30%	50	Master's degree
21-1012	Educational, Vocational, and School Counselors	3,210	3,560	350	10.90%	100	Master's degree
21-1014	Mental Health Counselors	1,550	1,850	300	19.35%	70	Master's degree
21-1015	Rehabilitation Counselors	1,850	2,170	320	17.30%	70	Master's degree
21-1021	Child, Family, and School Social Workers	2,870	3,200	330	11.50%	100	Bachelor's degree
21-1022	Medical and Public Health Social Workers	1,350	1,560	210	15.56%	50	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	870	980	110	12.64%	30	Master's degree
21-1029	Social Workers, All Other	600	640	40	6.67%	20	Bachelor's degree
21-1091	Health Educators	600	670	70	11.67%	20	Master's degree
21-1092	Probation Officers and Correctional Treatment Specialists	900	1,080	180	20.00%	30	Bachelor's degree
21-1093	Social and Human Service Assistants	2,260	2,570	310	13.72%	60	Moderate-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	590	660	70	11.86%	20	Bachelor's degree
21-2011	Clergy	5,010	5,370	360	7.19%	110	Master's degree
21-2021	Directors, Religious Activities and Education	1,190	1,270	80	6.72%	40	Bachelor's degree
21-2099	Religious Workers, All Other	490	530	40	8.16%	10	Bachelor's degree
23-1011	Lawyers	7,380	8,200	820	11.11%	230	First professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	160	170	10	6.25%	10	Bachelor's or higher degree, plus work experience
23-1023	Judges, Magistrate Judges, and Magistrates	450	480	30	6.67%	20	Bachelor's or higher degree, plus work experience
23-2011	Paralegals and Legal Assistants	2,030	2,480	450	22.17%	80	Associate degree
23-2091	Court Reporters	280	300	20	7.14%	10	Postsecondary vocational training
23-2092	Law Clerks	230	230	0	0.00%	10	Bachelor's degree
23-2093	Title Examiners, Abstractors, and Searchers	1,810	1,770	-40	-2.21%	30	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	210	220	10	4.76%	10	Bachelor's degree
25-1000	Postsecondary Teachers	19,540	23,810	4,270	21.85%	760	Doctoral degree
25-2011	Preschool Teachers, Except Special Education	7,040	7,920	880	12.50%	210	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	2,170	2,580	410	18.89%	80	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	16,710	19,480	2,770	16.58%	650	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	7,490	8,570	1,080	14.42%	280	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	160	160	0	0.00%	10	Bachelor's or higher degree, plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	10,550	11,460	910	8.63%	410	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	1,270	1,260	-10	-0.79%	40	Bachelor's or higher degree, plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary Sc	2,220	2,710	490	22.07%	100	Bachelor's degree
25-2042	Special Education Teachers, Middle School	1,000	1,200	200	20.00%	50	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	1,270	1,420	150	11.81%	50	Bachelor's degree
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	740	800	60	8.11%	20	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	1,890	2,100	210	11.11%	50	Work experience in a related occupation

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25-3099	Teachers and Instructors, All Other	11,270	12,180	910	8.07%	220	Bachelor's degree
25-4011	Archivists	100	100	0	0.00%	10	Master's degree
25-4012	Curators	70	80	10	14.29%	10	Master's degree
25-4013	Museum Technicians and Conservators	70	80	10	14.29%	10	Master's degree
25-4021	Librarians	2,020	2,160	140	6.93%	70	Master's degree
25-4031	Library Technicians	1,830	2,040	210	11.48%	110	Postsecondary vocational training
25-9011	Audio-Visual Collections Specialists	70	70	0	0.00%	10	Moderate-term on-the-job training
25-9021	Farm and Home Management Advisors	70	70	0	0.00%	10	Bachelor's degree
25-9031	Instructional Coordinators	1,300	1,530	230	17.69%	50	Master's degree
25-9041	Teacher Assistants	10,400	11,360	960	9.23%	270	Short-term on-the-job training
25-9099	Education, Training, and Library Workers, All Other	1,300	1,410	110	8.46%	30	Bachelor's degree
27-1011	Art Directors	280	280	0	0.00%	10	Bachelor's or higher degree, plus work experience
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	140	170	30	21.43%	10	Long-term on-the-job training
27-1014	Multi-Media Artists and Animators	250	300	50	20.00%	20	Bachelor's degree
27-1021	Commercial and Industrial Designers	650	690	40	6.15%	30	Bachelor's degree
27-1023	Floral Designers	1,060	980	-80	-7.55%	30	Moderate-term on-the-job training
27-1024	Graphic Designers	1,980	2,050	70	3.54%	60	Bachelor's degree
27-1025	Interior Designers	390	420	30	7.69%	20	Associate degree
27-1026	Merchandise Displayers and Window Trimmers	710	780	70	9.86%	30	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	80	90	10	12.50%	10	Bachelor's degree
27-2012	Producers and Directors	1,170	1,170	0	0.00%	40	Bachelor's or higher degree, plus work experience
27-2021	Athletes and Sports Competitors	110	120	10	9.09%	10	Long-term on-the-job training
27-2022	Coaches and Scouts	2,450	2,720	270	11.02%	100	Long-term on-the-job training
27-2042	Musicians and Singers	1,830	1,900	70	3.83%	50	Long-term on-the-job training
27-3011	Radio and Television Announcers	700	590	-110	-15.71%	30	Long-term on-the-job training
27-3012	Public Address System and Other Announcers	130	130	0	0.00%	10	Long-term on-the-job training
27-3022	Reporters and Correspondents	1,080	1,100	20	1.85%	40	Bachelor's or higher degree, plus work experience
27-3031	Public Relations Specialists	2,050	2,280	230	11.22%	40	Bachelor's degree
27-3041	Editors	900	930	30	3.33%	30	Bachelor's degree
27-3042	Technical Writers	470	560	90	19.15%	30	Bachelor's degree
27-3043	Writers and Authors	1,790	2,090	300	16.76%	70	Bachelor's degree
27-3091	Interpreters and Translators	240	280	40	16.67%	10	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	240	280	40	16.67%	20	Long-term on-the-job training
27-4012	Broadcast Technicians	610	630	20	3.28%	30	Associate degree
27-4021	Photographers	1,770	2,060	290	16.38%	70	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	310	290	-20	-6.45%	10	Moderate-term on-the-job training
27-4099	Media and Communication Equipment Workers, All Other	70	70	0	0.00%	10	Moderate-term on-the-job training
29-1011	Chiropractors	700	710	10	1.43%	10	First professional degree
29-1021	Dentists, General	1,640	1,840	200	12.20%	60	First professional degree
29-1029	Dentists, All Other Specialists	990	1,090	100	10.10%	30	First professional degree
29-1031	Dietitians and Nutritionists	810	840	30	3.70%	30	Bachelor's degree
29-1041	Optometrists	520	500	-20	-3.85%	10	First professional degree
29-1051	Pharmacists	3,030	3,710	680	22.44%	130	First professional degree

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29-1060	Physicians and Surgeons	7,400	7,730	330	4.46%	170	First professional degree
29-1071	Physician Assistants	830	940	110	13.25%	30	Bachelor's degree
29-1111	Registered Nurses	25,680	30,890	5,210	20.29%	950	Associate degree
29-1121	Audiologists	130	130	0	0.00%	10	First professional degree
29-1122	Occupational Therapists	970	1,090	120	12.37%	30	Master's degree
29-1123	Physical Therapists	2,160	2,530	370	17.13%	70	Master's degree
29-1124	Radiation Therapists	260	310	50	19.23%	10	Associate degree
29-1125	Recreational Therapists	360	350	-10	-2.78%	10	Bachelor's degree
29-1126	Respiratory Therapists	1,200	1,470	270	22.50%	50	Associate degree
29-1127	Speech-Language Pathologists	1,450	1,580	130	8.97%	50	Master's degree
29-1131	Veterinarians	800	1,140	340	42.50%	50	First professional degree
29-1199	Health Diagnosing and Treating Practitioners, All Other	740	790	50	6.76%	20	Bachelor's degree
29-2011	Medical and Clinical Laboratory Technologists	1,630	1,770	140	8.59%	40	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	1,400	1,500	100	7.14%	40	Associate degree
29-2021	Dental Hygienists	1,560	1,830	270	17.31%	60	Associate degree
29-2031	Cardiovascular Technologists and Technicians	550	670	120	21.82%	20	Associate degree
29-2032	Diagnostic Medical Sonographers	500	560	60	12.00%	20	Associate degree
29-2033	Nuclear Medicine Technologists	240	260	20	8.33%	10	Associate degree
29-2034	Radiologic Technologists and Technicians	2,130	2,350	220	10.33%	60	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	3,960	4,540	580	14.65%	110	Postsecondary vocational training
29-2051	Dietetic Technicians	400	460	60	15.00%	20	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	3,690	4,890	1,200	32.52%	240	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	930	880	-50	-5.38%	30	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	390	390	0	0.00%	20	Associate degree
29-2055	Surgical Technologists	1,470	1,770	300	20.41%	80	Postsecondary vocational training
29-2056	Veterinary Technologists and Technicians	620	940	320	51.61%	60	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	13,600	14,710	1,110	8.16%	490	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	2,740	3,030	290	10.58%	110	Associate degree
29-2081	Opticians, Dispensing	770	750	-20	-2.60%	30	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	90	100	10	11.11%	10	Bachelor's degree
29-2099	Health Technologists and Technicians, All Other	580	620	40	6.90%	10	Postsecondary vocational training
29-9011	Occupational Health and Safety Specialists	710	770	60	8.45%	20	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	140	160	20	14.29%	10	Postsecondary vocational training
29-9091	Athletic Trainers	230	280	50	21.74%	10	Bachelor's degree
29-9099	Healthcare Practitioners and Technical Workers, All Other	400	430	30	7.50%	10	Postsecondary vocational training
31-1011	Home Health Aides	7,510	10,000	2,490	33.16%	320	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	20,440	24,010	3,570	17.47%	540	Postsecondary vocational training
31-1013	Psychiatric Aides	840	810	-30	-3.57%	10	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	490	580	90	18.37%	20	Associate degree
31-2012	Occupational Therapist Aides	220	250	30	13.64%	10	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,020	1,230	210	20.59%	40	Associate degree
31-2022	Physical Therapist Aides	730	830	100	13.70%	20	Short-term on-the-job training
31-9011	Massage Therapists	600	690	90	15.00%	20	Postsecondary vocational training

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31-9091	Dental Assistants	3,170	3,690	520	16.40%	110	Moderate-term on-the-job training
31-9092	Medical Assistants	6,970	8,270	1,300	18.65%	220	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	420	470	50	11.90%	10	Short-term on-the-job training
31-9094	Medical Transcriptionists	1,150	1,200	50	4.35%	20	Postsecondary vocational training
31-9095	Pharmacy Aides	1,010	890	-120	-11.88%	20	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	980	1,210	230	23.47%	40	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	1,510	1,630	120	7.95%	40	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	710	860	150	21.13%	40	Work experience in a related occupation
33-1012	First-Line Supervisors/Managers of Police and Detectives	1,320	1,530	210	15.91%	70	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	880	1,030	150	17.05%	50	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	180	200	20	11.11%	10	Work experience in a related occupation
33-2011	Fire Fighters	4,610	5,470	860	18.66%	260	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	180	210	30	16.67%	10	Work experience in a related occupation
33-2022	Forest Fire Inspectors and Prevention Specialists	160	160	0	0.00%	10	Work experience in a related occupation
33-3011	Bailiffs	240	270	30	12.50%	10	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	5,510	6,970	1,460	26.50%	280	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	1,290	1,560	270	20.93%	60	Work experience in a related occupation
33-3031	Fish and Game Wardens	70	80	10	14.29%	10	Associate degree
33-3051	Police and Sheriff's Patrol Officers	9,290	10,760	1,470	15.82%	400	Long-term on-the-job training
33-9011	Animal Control Workers	370	430	60	16.22%	20	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	610	710	100	16.39%	30	Work experience in a related occupation
33-9031	Gaming Surveillance Officers and Gaming Investigators	330	450	120	36.36%	20	Moderate-term on-the-job training
33-9032	Security Guards	9,360	10,950	1,590	16.99%	350	Short-term on-the-job training
33-9091	Crossing Guards	460	470	10	2.17%	20	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	860	970	110	12.79%	80	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	520	610	90	17.31%	50	Short-term on-the-job training
35-1011	Chefs and Head Cooks	1,680	1,830	150	8.93%	40	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Worker	8,040	9,190	1,150	14.30%	180	Work experience in a related occupation
35-2011	Cooks, Fast Food	14,950	16,750	1,800	12.04%	590	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	7,370	7,900	530	7.19%	260	Moderate-term on-the-job training
35-2014	Cooks, Restaurant	8,830	10,150	1,320	14.95%	380	Long-term on-the-job training
35-2015	Cooks, Short Order	2,160	2,340	180	8.33%	80	Short-term on-the-job training
35-2021	Food Preparation Workers	8,550	10,030	1,480	17.31%	450	Short-term on-the-job training
35-3011	Bartenders	3,070	3,430	360	11.73%	150	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	27,120	32,970	5,850	21.57%	1,100	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	3,540	3,910	370	10.45%	290	Short-term on-the-job training
35-3031	Waiters and Waitresses	27,610	31,470	3,860	13.98%	1,890	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	2,550	2,940	390	15.29%	80	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	2,870	3,270	400	13.94%	160	Short-term on-the-job training
35-9021	Dishwashers	5,400	6,130	730	13.52%	300	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3,930	4,490	560	14.25%	330	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	2,270	2,450	180	7.93%	60	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Grou	2,070	2,290	220	10.63%	40	Work experience in a related occupation

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37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	24,950	27,630	2,680	10.74%	750	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	12,060	13,440	1,380	11.44%	370	Short-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	9,930	10,830	900	9.06%	230	Short-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,510	1,520	10	0.66%	30	Short-term on-the-job training
39-1011	Gaming Supervisors	390	510	120	30.77%	20	Work experience in a related occupation
39-1012	Slot Key Persons	210	240	30	14.29%	10	Postsecondary vocational training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	1,300	1,420	120	9.23%	40	Work experience in a related occupation
39-2011	Animal Trainers	520	650	130	25.00%	30	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	2,110	2,630	520	24.64%	90	Short-term on-the-job training
39-3011	Gaming Dealers	750	980	230	30.67%	40	Postsecondary vocational training
39-3012	Gaming and Sports Book Writers and Runners	510	680	170	33.33%	30	Short-term on-the-job training
39-3021	Motion Picture Projectionists	90	60	-30	-33.33%	10	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	530	500	-30	-5.66%	40	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,760	2,080	320	18.18%	120	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	160	190	30	18.75%	20	Short-term on-the-job training
39-4011	Embalmers	190	220	30	15.79%	10	Postsecondary vocational training
39-4021	Funeral Attendants	500	590	90	18.00%	30	Short-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,900	4,520	620	15.90%	110	Postsecondary vocational training
39-5092	Manicurists and Pedicurists	150	190	40	26.67%	10	Postsecondary vocational training
39-6011	Baggage Porters and Bellhops	360	400	40	11.11%	10	Short-term on-the-job training
39-6012	Concierges	50	50	0	0.00%	10	Moderate-term on-the-job training
39-6021	Tour Guides and Escorts	80	90	10	12.50%	10	Moderate-term on-the-job training
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	50	60	10	20.00%	10	Short-term on-the-job training
39-9011	Child Care Workers	13,180	15,090	1,910	14.49%	570	Short-term on-the-job training
39-9021	Personal and Home Care Aides	11,070	15,320	4,250	38.39%	620	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	2,380	2,820	440	18.49%	90	Postsecondary vocational training
39-9032	Recreation Workers	3,300	3,600	300	9.09%	100	Short-term on-the-job training
39-9041	Residential Advisors	590	670	80	13.56%	30	Moderate-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	280	230	-50	-17.86%	10	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	17,500	18,850	1,350	7.71%	510	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	3,070	3,260	190	6.19%	70	Work experience in a related occupation
41-2011	Cashiers	41,960	42,170	210	0.50%	2,020	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	860	950	90	10.47%	50	Short-term on-the-job training
41-2021	Counter and Rental Clerks	4,510	5,560	1,050	23.28%	280	Short-term on-the-job training
41-2022	Parts Salespersons	3,430	3,230	-200	-5.83%	40	Moderate-term on-the-job training
41-2031	Retail Salespersons	49,560	55,900	6,340	12.79%	2,160	Short-term on-the-job training
41-3011	Advertising Sales Agents	1,750	2,050	300	17.14%	70	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	4,880	5,530	650	13.32%	180	Bachelor's degree
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,510	1,490	-20	-1.32%	40	Bachelor's degree
41-3041	Travel Agents	560	550	-10	-1.79%	10	Postsecondary vocational training
41-3099	Sales Representatives, Services, All Other	3,610	4,560	950	26.32%	180	Moderate-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scie	4,950	5,560	610	12.32%	170	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical a	12,230	13,460	1,230	10.06%	400	Moderate-term on-the-job training

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41-9011	Demonstrators and Product Promoters	530	630	100	18.87%	30	Moderate-term on-the-job training
41-9021	Real Estate Brokers	2,020	2,120	100	4.95%	50	Work experience in a related occupation
41-9022	Real Estate Sales Agents	5,170	5,470	300	5.80%	120	Postsecondary vocational training
41-9041	Telemarketers	6,010	5,560	-450	-7.49%	220	Short-term on-the-job training
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Wo	4,680	5,240	560	11.97%	120	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	810	940	130	16.05%	20	Moderate-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Wo	14,540	15,170	630	4.33%	370	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	2,210	1,970	-240	-10.86%	50	Short-term on-the-job training
43-2021	Telephone Operators	180	110	-70	-38.89%	10	Short-term on-the-job training
43-3011	Bill and Account Collectors	6,130	7,520	1,390	22.68%	240	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	7,630	7,620	-10	-0.13%	100	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	27,030	29,890	2,860	10.58%	710	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	290	320	30	10.34%	20	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	3,100	3,130	30	0.97%	90	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,370	1,360	-10	-0.73%	30	Short-term on-the-job training
43-3071	Tellers	8,340	9,500	1,160	13.91%	480	Short-term on-the-job training
43-4011	Brokerage Clerks	330	310	-20	-6.06%	20	Moderate-term on-the-job training
43-4021	Correspondence Clerks	290	310	20	6.90%	10	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	2,590	3,030	440	16.99%	110	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	440	390	-50	-11.36%	20	Short-term on-the-job training
43-4051	Customer Service Representatives	23,590	29,370	5,780	24.50%	1,240	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	630	690	60	9.52%	20	Moderate-term on-the-job training
43-4071	File Clerks	2,730	1,540	-1,190	-43.59%	80	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,060	2,310	250	12.14%	110	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1,590	1,790	200	12.58%	70	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,020	1,130	110	10.78%	50	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	2,380	2,350	-30	-1.26%	50	Short-term on-the-job training
43-4141	New Accounts Clerks	1,100	910	-190	-17.27%	40	Work experience in a related occupation
43-4151	Order Clerks	2,620	1,900	-720	-27.48%	60	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	2,990	3,310	320	10.70%	60	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	12,330	13,780	1,450	11.76%	450	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	2,930	2,850	-80	-2.73%	70	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,960	1,750	-210	-10.71%	40	Short-term on-the-job training
43-5011	Cargo and Freight Agents	520	550	30	5.77%	20	Moderate-term on-the-job training
43-5021	Couriers and Messengers	1,210	1,160	-50	-4.13%	40	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,970	2,330	360	18.27%	90	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,210	2,270	60	2.71%	70	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	1,020	900	-120	-11.76%	40	Short-term on-the-job training
43-5051	Postal Service Clerks	730	720	-10	-1.37%	20	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	4,070	4,020	-50	-1.23%	120	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operat	1,850	1,670	-180	-9.73%	20	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	3,760	4,030	270	7.18%	130	Short-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	7,330	7,730	400	5.46%	220	Short-term on-the-job training

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43-5081	Stock Clerks and Order Fillers	16,990	15,990	-1,000	-5.89%	410	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	560	490	-70	-12.50%	20	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	19,480	21,480	2,000	10.27%	510	Moderate-term on-the-job training
43-6012	Legal Secretaries	2,560	2,870	310	12.11%	80	Postsecondary vocational training
43-6013	Medical Secretaries	4,400	4,640	240	5.45%	100	Postsecondary vocational training
43-6014	Secretaries, Except Legal, Medical, and Executive	26,070	25,850	-220	-0.84%	420	Moderate-term on-the-job training
43-9011	Computer Operators	1,120	840	-280	-25.00%	20	Moderate-term on-the-job training
43-9021	Data Entry Keyers	3,110	2,850	-260	-8.36%	80	Moderate-term on-the-job training
43-9022	Word Processors and Typists	810	720	-90	-11.11%	20	Moderate-term on-the-job training
43-9031	Desktop Publishers	140	140	0	0.00%	10	Postsecondary vocational training
43-9041	Insurance Claims and Policy Processing Clerks	3,080	3,010	-70	-2.27%	40	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,560	1,340	-220	-14.10%	50	Short-term on-the-job training
43-9061	Office Clerks, General	37,370	41,130	3,760	10.06%	1,070	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	610	570	-40	-6.56%	20	Short-term on-the-job training
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Work	1,220	1,430	210	17.21%	50	Work experience in a related occupation
45-2011	Agricultural Inspectors	330	370	40	12.12%	20	Work experience in a related occupation
45-2021	Animal Breeders	110	110	0	0.00%	10	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	840	860	20	2.38%	20	Work experience in a related occupation
45-2091	Agricultural Equipment Operators	1,570	1,670	100	6.37%	50	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	16,050	17,080	1,030	6.42%	510	Short-term on-the-job training
45-2093	Farmworkers, Farm and Ranch Animals	4,210	4,560	350	8.31%	140	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	410	430	20	4.88%	20	Short-term on-the-job training
45-4011	Forest and Conservation Workers	170	190	20	11.76%	10	Moderate-term on-the-job training
45-4021	Fallers	60	70	10	16.67%	10	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	240	260	20	8.33%	10	Moderate-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Work	8,120	9,110	990	12.19%	220	Work experience in a related occupation
47-2011	Boilermakers	230	260	30	13.04%	20	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	1,280	1,520	240	18.75%	60	Long-term on-the-job training
47-2022	Stonemasons	110	130	20	18.18%	10	Long-term on-the-job training
47-2031	Carpenters	10,070	11,510	1,440	14.30%	280	Long-term on-the-job training
47-2041	Carpet Installers	510	510	0	0.00%	10	Moderate-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	250	230	-20	-8.00%	10	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	520	620	100	19.23%	20	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	3,060	3,620	560	18.30%	150	Moderate-term on-the-job training
47-2061	Construction Laborers	15,130	17,570	2,440	16.13%	360	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,580	1,770	190	12.03%	60	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	5,650	6,280	630	11.15%	180	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	1,580	1,840	260	16.46%	50	Moderate-term on-the-job training
47-2082	Tapers	190	220	30	15.79%	10	Moderate-term on-the-job training
47-2111	Electricians	7,330	8,440	1,110	15.14%	300	Long-term on-the-job training
47-2121	Glaziers	930	1,050	120	12.90%	30	Long-term on-the-job training
47-2131	Insulation Workers, Floor, Ceiling, and Wall	290	340	50	17.24%	20	Moderate-term on-the-job training
47-2132	Insulation Workers, Mechanical	620	730	110	17.74%	30	Moderate-term on-the-job training

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		2006	2016	Numeric	Percent		
47-2141	Painters, Construction and Maintenance	4,420	5,200	780	17.65%	160	Moderate-term on-the-job training
47-2142	Paperhangers	120	120	0	0.00%	10	Moderate-term on-the-job training
47-2151	Pipelayers	900	1,010	110	12.22%	30	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	5,840	6,820	980	16.78%	220	Long-term on-the-job training
47-2161	Plasterers and Stucco Masons	240	280	40	16.67%	10	Long-term on-the-job training
47-2171	Reinforcing Iron and Rebar Workers	70	80	10	14.29%	10	Long-term on-the-job training
47-2181	Roofers	1,180	1,470	290	24.58%	60	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,070	3,390	320	10.42%	110	Long-term on-the-job training
47-2221	Structural Iron and Steel Workers	550	620	70	12.73%	30	Long-term on-the-job training
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble	560	670	110	19.64%	30	Short-term on-the-job training
47-3012	Helpers--Carpenters	630	720	90	14.29%	30	Short-term on-the-job training
47-3013	Helpers--Electricians	1,590	1,810	220	13.84%	70	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	190	200	10	5.26%	10	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,490	1,780	290	19.46%	70	Short-term on-the-job training
47-3016	Helpers--Roofers	190	220	30	15.79%	10	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	400	450	50	12.50%	20	Short-term on-the-job training
47-4011	Construction and Building Inspectors	1,290	1,570	280	21.71%	60	Work experience in a related occupation
47-4041	Hazardous Materials Removal Workers	380	430	50	13.16%	20	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3,960	4,670	710	17.93%	150	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	120	130	10	8.33%	10	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	260	290	30	11.54%	10	Moderate-term on-the-job training
47-4099	Construction and Related Workers, All Other	290	320	30	10.34%	10	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	2,710	3,230	520	19.19%	80	Moderate-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	1,400	1,650	250	17.86%	40	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	2,340	2,640	300	12.82%	60	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	380	450	70	18.42%	20	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	380	410	30	7.89%	20	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	3,530	4,070	540	15.30%	160	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	2,360	2,790	430	18.22%	120	Short-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	6,640	7,210	570	8.58%	220	Work experience in a related occupation
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,840	1,880	40	2.17%	30	Postsecondary vocational training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Inst	2,040	2,150	110	5.39%	70	Long-term on-the-job training
49-2092	Electric Motor, Power Tool, and Related Repairers	430	420	-10	-2.33%	20	Postsecondary vocational training
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipm	230	250	20	8.70%	10	Postsecondary vocational training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipmen	1,170	1,350	180	15.38%	60	Postsecondary vocational training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	520	520	0	0.00%	20	Postsecondary vocational training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	310	290	-20	-6.45%	10	Postsecondary vocational training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	360	380	20	5.56%	10	Postsecondary vocational training
49-2098	Security and Fire Alarm Systems Installers	1,030	1,310	280	27.18%	50	Postsecondary vocational training
49-3011	Aircraft Mechanics and Service Technicians	6,060	6,370	310	5.12%	100	Postsecondary vocational training
49-3021	Automotive Body and Related Repairers	3,020	3,440	420	13.91%	120	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	70	80	10	14.29%	10	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	8,190	9,220	1,030	12.58%	270	Postsecondary vocational training

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49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4,210	4,800	590	14.01%	150	Postsecondary vocational training
49-3041	Farm Equipment Mechanics	490	510	20	4.08%	20	Postsecondary vocational training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,480	1,720	240	16.22%	60	Postsecondary vocational training
49-3043	Rail Car Repairers	160	170	10	6.25%	10	Long-term on-the-job training
49-3051	Motorboat Mechanics	330	390	60	18.18%	20	Long-term on-the-job training
49-3052	Motorcycle Mechanics	280	290	10	3.57%	10	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	420	410	-10	-2.38%	10	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	110	120	10	9.09%	10	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,490	1,720	230	15.44%	60	Short-term on-the-job training
49-9011	Mechanical Door Repairers	330	390	60	18.18%	20	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	930	940	10	1.08%	20	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,450	4,100	650	18.84%	130	Long-term on-the-job training
49-9031	Home Appliance Repairers	580	610	30	5.17%	20	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	3,600	4,140	540	15.00%	120	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	17,860	19,690	1,830	10.25%	230	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	1,240	1,280	40	3.23%	30	Short-term on-the-job training
49-9044	Millwrights	240	290	50	20.83%	10	Long-term on-the-job training
49-9045	Refractory Materials Repairers, Except Brickmasons	80	80	0	0.00%	10	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	1,710	1,890	180	10.53%	80	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,820	1,960	140	7.69%	70	Long-term on-the-job training
49-9062	Medical Equipment Repairers	280	320	40	14.29%	20	Associate degree
49-9069	Precision Instrument and Equipment Repairers, All Other	240	250	10	4.17%	10	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	650	650	0	0.00%	20	Moderate-term on-the-job training
49-9094	Locksmiths and Safe Repairers	220	260	40	18.18%	10	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	2,550	2,890	340	13.33%	100	Short-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	7,690	8,000	310	4.03%	160	Work experience in a related occupation
51-2021	Coil Winders, Tapers, and Finishers	200	180	-20	-10.00%	10	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	1,770	1,470	-300	-16.95%	30	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	240	240	0	0.00%	10	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	690	680	-10	-1.45%	20	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,730	1,900	170	9.83%	50	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	850	920	70	8.24%	30	Moderate-term on-the-job training
51-2092	Team Assemblers	18,340	19,440	1,100	6.00%	500	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	810	800	-10	-1.23%	20	Moderate-term on-the-job training
51-3011	Bakers	1,080	1,280	200	18.52%	50	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,380	1,450	70	5.07%	60	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,050	1,310	260	24.76%	60	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	2,160	2,810	650	30.09%	140	Moderate-term on-the-job training
51-3092	Food Batchmakers	680	830	150	22.06%	40	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	480	520	40	8.33%	30	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,740	1,870	130	7.47%	40	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	290	290	0	0.00%	10	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal a	540	530	-10	-1.85%	20	Moderate-term on-the-job training

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51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	520	420	-100	-19.23%	20	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	260	270	10	3.85%	10	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	3,510	3,410	-100	-2.85%	90	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	800	700	-100	-12.50%	20	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,220	1,150	-70	-5.74%	20	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	860	740	-120	-13.95%	20	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	470	410	-60	-12.77%	10	Moderate-term on-the-job training
51-4041	Machinists	6,930	7,440	510	7.36%	160	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	130	130	0	0.00%	10	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	100	110	10	10.00%	10	Moderate-term on-the-job training
51-4061	Model Makers, Metal and Plastic	180	170	-10	-5.56%	10	Moderate-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	150	160	10	6.67%	10	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,190	1,130	-60	-5.04%	30	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,620	1,760	140	8.64%	50	Moderate-term on-the-job training
51-4111	Tool and Die Makers	410	420	10	2.44%	10	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	9,580	10,850	1,270	13.26%	330	Long-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders, Metal and Plastic	790	930	140	17.72%	40	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	390	370	-20	-5.13%	10	Moderate-term on-the-job training
51-4192	Lay-Out Workers, Metal and Plastic	110	100	-10	-9.09%	10	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	570	580	10	1.75%	20	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	280	250	-30	-10.71%	10	Moderate-term on-the-job training
51-5011	Bindery Workers	620	480	-140	-22.58%	10	Short-term on-the-job training
51-5022	Prepress Technicians and Workers	550	440	-110	-20.00%	10	Postsecondary vocational training
51-5023	Printing Machine Operators	1,610	1,510	-100	-6.21%	40	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	3,000	3,350	350	11.67%	110	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	1,920	2,130	210	10.94%	40	Short-term on-the-job training
51-6031	Sewing Machine Operators	1,530	1,200	-330	-21.57%	20	Moderate-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	350	360	10	2.86%	10	Long-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	80	60	-20	-25.00%	10	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Plastic	190	180	-10	-5.26%	10	Moderate-term on-the-job training
51-6093	Upholsterers	330	310	-20	-6.06%	10	Long-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	1,860	2,050	190	10.22%	80	Long-term on-the-job training
51-7021	Furniture Finishers	110	110	0	0.00%	10	Long-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	390	470	80	20.51%	20	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	500	610	110	22.00%	30	Moderate-term on-the-job training
51-7099	Woodworkers, All Other	200	220	20	10.00%	10	Moderate-term on-the-job training
51-8013	Power Plant Operators	500	510	10	2.00%	20	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	300	330	30	10.00%	10	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	2,240	2,650	410	18.30%	80	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	160	150	-10	-6.25%	10	Long-term on-the-job training
51-8092	Gas Plant Operators	450	420	-30	-6.67%	20	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	910	920	10	1.10%	30	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	620	590	-30	-4.84%	20	Moderate-term on-the-job training

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51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, O	400	400	0	0.00%	10	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tende	610	590	-20	-3.28%	10	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	700	700	0	0.00%	20	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	2,000	2,120	120	6.00%	50	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	150	160	10	6.67%	10	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	640	650	10	1.56%	20	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operator	910	910	0	0.00%	20	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	320	310	-10	-3.13%	10	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	5,980	5,900	-80	-1.34%	90	Moderate-term on-the-job training
51-9081	Dental Laboratory Technicians	630	710	80	12.70%	20	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	540	580	40	7.41%	20	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,440	2,380	-60	-2.46%	50	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	2,000	1,990	-10	-0.50%	40	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	720	800	80	11.11%	30	Long-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	460	500	40	8.70%	20	Short-term on-the-job training
51-9131	Photographic Process Workers	280	180	-100	-35.71%	10	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	230	240	10	4.35%	10	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	110	120	10	9.09%	10	Moderate-term on-the-job training
51-9194	Etchers and Engravers	100	100	0	0.00%	10	Long-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	1,210	1,260	50	4.13%	40	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	680	560	-120	-17.65%	20	Moderate-term on-the-job training
51-9197	Tire Builders	1,420	1,230	-190	-13.38%	60	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	8,650	9,420	770	8.90%	290	Short-term on-the-job training
51-9199	Production Workers, All Other	1,510	1,620	110	7.28%	50	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	100	120	20	20.00%	10	Work experience in a related occupation
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Move	1,920	2,140	220	11.46%	70	Work experience in a related occupation
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving M	3,000	3,330	330	11.00%	100	Work experience in a related occupation
53-2011	Airline Pilots, Copilots, and Flight Engineers	170	170	0	0.00%	10	Bachelor's degree
53-2012	Commercial Pilots	360	400	40	11.11%	20	Postsecondary vocational training
53-2021	Air Traffic Controllers	530	640	110	20.75%	30	Long-term on-the-job training
53-2022	Airfield Operations Specialists	120	150	30	25.00%	10	Long-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	850	990	140	16.47%	30	Moderate-term on-the-job training
53-3022	Bus Drivers, School	4,720	5,160	440	9.32%	110	Short-term on-the-job training
53-3031	Driver/Sales Workers	6,510	6,370	-140	-2.15%	120	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	24,740	27,660	2,920	11.80%	740	Moderate-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	9,990	10,730	740	7.41%	250	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	1,680	1,890	210	12.50%	50	Short-term on-the-job training
53-4021	Railroad Brake, Signal, and Switch Operators	200	180	-20	-10.00%	10	Moderate-term on-the-job training
53-4031	Railroad Conductors and Yardmasters	310	350	40	12.90%	20	Moderate-term on-the-job training
53-6021	Parking Lot Attendants	660	710	50	7.58%	30	Short-term on-the-job training
53-6031	Service Station Attendants	620	680	60	9.68%	40	Short-term on-the-job training
53-6041	Traffic Technicians	160	180	20	12.50%	10	Short-term on-the-job training
53-6051	Transportation Inspectors	420	500	80	19.05%	30	Work experience in a related occupation

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53-6099	Transportation Workers, All Other	270	300	30	11.11%	10	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	600	550	-50	-8.33%	10	Short-term on-the-job training
53-7021	Crane and Tower Operators	490	530	40	8.16%	20	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	1,680	1,910	230	13.69%	60	Moderate-term on-the-job training
53-7033	Loading Machine Operators, Underground Mining	60	60	0	0.00%	10	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	7,440	7,400	-40	-0.54%	190	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	4,840	5,510	670	13.84%	260	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	25,320	25,610	290	1.15%	840	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	990	880	-110	-11.11%	20	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	6,590	5,820	-770	-11.68%	80	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	130	130	0	0.00%	10	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	590	540	-50	-8.47%	30	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	1,840	1,780	-60	-3.26%	80	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	2,080	2,240	160	7.69%	80	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	280	310	30	10.71%	10	Moderate-term on-the-job training
53-7199	Material Moving Workers, All Other	140	140	0	0.00%	10	Moderate-term on-the-job training