

## OKLAHOMA LONG-TERM OCCUPATIONAL OUTLOOK, 2004 - 2014

Occupation Code	Occupation Title	Employment		Employment Change, 2004-2014		Average Annual Openings	Education Attainment
		2004	2014	Numeric	Percent		
<b>00-0000</b>	<b>Total, All Occupations</b>	<b>1,619,400</b>	<b>1,812,000</b>	<b>192,600</b>	<b>11.89%</b>	<b>59,260</b>	
11-1011	Chief Executives	8720	10050	1330	15.26%	300	Bachelor's or higher degree, plus work exp.
11-1021	General and Operations Managers	27010	31220	4210	15.59%	930	Bachelor's or higher degree, plus work exp.
11-1031	Legislators	620	650	30	5.32%	10	Bachelor's or higher degree, plus work exp.
11-2011	Advertising and Promotions Managers	510	620	100	19.84%	20	Bachelor's or higher degree, plus work exp.
11-2021	Marketing Managers	1270	1520	250	19.54%	50	Bachelor's or higher degree, plus work exp.
11-2022	Sales Managers	3410	4090	690	20.11%	130	Bachelor's or higher degree, plus work exp.
11-2031	Public Relations Managers	820	1020	190	23.33%	30	Bachelor's or higher degree, plus work exp.
11-3011	Administrative Services Managers	3890	4480	600	15.34%	140	Bachelor's or higher degree, plus work exp.
11-3021	Computer and Information Systems Managers	2260	2790	530	23.54%	90	Bachelor's or higher degree, plus work exp.
11-3031	Financial Managers	5860	6720	860	14.65%	170	Bachelor's or higher degree, plus work exp.
11-3040	Human Resources Managers	2090	2530	430	20.76%	80	Bachelor's or higher degree, plus work exp.
11-3051	Industrial Production Managers	1540	1650	100	6.74%	40	Work experience in a related occupation
11-3061	Purchasing Managers	690	740	50	7.54%	20	Bachelor's or higher degree, plus work exp.
11-3071	Transportation, Storage, and Distribution Managers	1100	1210	120	10.48%	30	Work experience in a related occupation
11-9011	Farm, Ranch, and Other Agricultural Managers	5690	5820	130	2.23%	110	Bachelor's or higher degree, plus work exp.
11-9021	Construction Managers	4780	5150	370	7.68%	120	Bachelor's degree
11-9031	Education Administrators, Preschool and Child Care Center/Pr	760	960	200	26.91%	40	Bachelor's or higher degree, plus work exp.
11-9032	Education Administrators, Elementary and Secondary School	2810	3090	280	9.79%	100	Bachelor's or higher degree, plus work exp.
11-9033	Education Administrators, Postsecondary	1530	1760	230	15.19%	60	Bachelor's or higher degree, plus work exp.
11-9039	Education Administrators, All Other	290	330	40	13.70%	10	Bachelor's or higher degree, plus work exp.
11-9041	Engineering Managers	1710	1940	230	13.31%	60	Bachelor's or higher degree, plus work exp.
11-9051	Food Service Managers	4660	5100	430	9.31%	120	Work experience in a related occupation
11-9061	Funeral Directors	490	530	40	8.20%	20	Associate degree
11-9071	Gaming Managers	70	90	20	31.43%	0	Work experience in a related occupation
11-9081	Lodging Managers	710	740	30	3.95%	20	Work experience in a related occupation
11-9111	Medical and Health Services Managers	3480	4090	610	17.60%	130	Bachelor's or higher degree, plus work exp.
11-9121	Natural Sciences Managers	380	410	30	8.78%	10	Bachelor's or higher degree, plus work exp.
11-9131	Postmasters and Mail Superintendents	550	490	-60	-10.05%	10	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	3360	3760	400	11.78%	100	Bachelor's degree
11-9151	Social and Community Service Managers	1700	2070	370	21.84%	70	Bachelor's degree
11-9199	Managers, All Other	6160	6660	500	8.06%	170	Work experience in a related occupation
13-1021	Purchasing Agents and Buyers, Farm Products	230	270	30	14.10%	10	Work experience in a related occupation
13-1022	Wholesale and Retail Buyers, Except Farm Products	1930	2050	120	6.43%	60	Work experience in a related occupation

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13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Produc	3260	3550	290	8.74%	110	Work experience in a related occupation
13-1031	Claims Adjusters, Examiners, and Investigators	3980	4640	650	16.37%	110	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	730	860	130	17.28%	20	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Healt	2200	2530	330	14.96%	90	Long-term on-the-job training
13-1051	Cost Estimators	1540	1750	210	13.43%	60	Work experience in a related occupation
13-1061	Emergency Management Specialists	120	150	30	26.50%	10	Work experience in a related occupation
13-1071	Employment, Recruitment, and Placement Specialists	1360	1700	340	25.13%	60	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	1330	1570	240	17.77%	40	Bachelor's degree
13-1073	Training and Development Specialists	3030	3590	570	18.67%	100	Bachelor's degree
13-1079	Human Resources, Training, and Labor Relations Specialists,	3090	3540	450	14.44%	100	Bachelor's degree
13-1081	Logisticians	490	600	110	22.76%	20	Bachelor's degree
13-1111	Management Analysts	6790	7990	1200	17.65%	210	Bachelor's or higher degree, plus work exp.
13-1121	Meeting and Convention Planners	530	640	110	19.66%	20	Bachelor's degree
13-1199	Business Operations Specialists, All Other	7160	8660	1500	20.94%	270	Bachelor's degree
13-2011	Accountants and Auditors	14890	17130	2240	15.03%	510	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	1100	1360	260	23.48%	50	Postsecondary vocational training
13-2031	Budget Analysts	640	710	70	11.60%	20	Bachelor's degree
13-2041	Credit Analysts	830	850	20	2.55%	20	Bachelor's degree
13-2051	Financial Analysts	1160	1330	170	14.53%	30	Bachelor's degree
13-2052	Personal Financial Advisors	710	860	150	20.87%	20	Bachelor's degree
13-2053	Insurance Underwriters	990	1070	80	8.17%	30	Bachelor's degree
13-2061	Financial Examiners	330	450	120	34.83%	20	Bachelor's degree
13-2071	Loan Counselors	560	690	130	23.66%	20	Bachelor's degree
13-2072	Loan Officers	3400	3710	320	9.28%	90	Bachelor's degree
13-2081	Tax Examiners, Collectors, and Revenue Agents	910	1000	90	10.00%	30	Bachelor's degree
13-2082	Tax Preparers	880	840	-40	-4.64%	20	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	510	570	60	11.98%	20	Bachelor's degree
15-1011	Computer and Information Scientists, Research	160	190	30	15.34%	0	Doctoral degree
15-1021	Computer Programmers	3250	3170	-90	-2.64%	80	Bachelor's degree
15-1031	Computer Software Engineers, Applications	2890	4000	1110	38.37%	140	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	1770	2430	660	37.30%	80	Bachelor's degree
15-1041	Computer Support Specialists	6130	7220	1090	17.78%	180	Associate degree
15-1051	Computer Systems Analysts	4630	5650	1020	22.14%	160	Bachelor's degree
15-1061	Database Administrators	1100	1500	390	35.79%	50	Bachelor's degree
15-1071	Network and Computer Systems Administrators	2820	3820	1000	35.23%	130	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	1240	1880	650	52.14%	80	Bachelor's degree
15-2031	Operations Research Analysts	280	290	10	2.82%	10	Master's degree
15-2041	Statisticians	90	90	0	1.11%	0	Master's degree
17-1011	Architects, Except Landscape and Naval	950	1060	110	11.91%	20	Bachelor's degree

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		17-1012	Landscape Architects	60	70		
17-1021	Cartographers and Photogrammetrists	90	110	10	13.98%	10 Bachelor's degree	
17-1022	Surveyors	620	690	80	12.68%	30 Bachelor's degree	
17-2011	Aerospace Engineers	1150	1270	130	10.98%	40 Bachelor's degree	
17-2031	Biomedical Engineers	120	160	40	29.27%	10 Bachelor's degree	
17-2041	Chemical Engineers	240	270	30	10.42%	10 Bachelor's degree	
17-2051	Civil Engineers	1640	1870	240	14.34%	50 Bachelor's degree	
17-2061	Computer Hardware Engineers	280	290	10	3.89%	10 Bachelor's degree	
17-2071	Electrical Engineers	1090	1220	130	11.85%	30 Bachelor's degree	
17-2072	Electronics Engineers, Except Computer	1760	2010	250	14.13%	60 Bachelor's degree	
17-2081	Environmental Engineers	360	510	160	44.51%	20 Bachelor's degree	
17-2111	Health and Safety Engineers, Except Mining Safety Engineers	270	300	30	12.64%	10 Bachelor's degree	
17-2112	Industrial Engineers	1240	1490	250	19.84%	60 Bachelor's degree	
17-2131	Materials Engineers	140	160	20	11.89%	10 Bachelor's degree	
17-2141	Mechanical Engineers	1890	2080	190	9.93%	70 Bachelor's degree	
17-2151	Mining and Geological Engineers, Including Mining Safety Eng	90	80	0	-3.45%	0 Bachelor's degree	
17-2171	Petroleum Engineers	1710	1790	90	5.16%	60 Bachelor's degree	
17-2199	Engineers, All Other	1090	1310	220	19.83%	40 Bachelor's degree	
17-3011	Architectural and Civil Drafters	1370	1390	30	2.12%	40 Postsecondary vocational training	
17-3012	Electrical and Electronics Drafters	650	690	40	5.35%	20 Postsecondary vocational training	
17-3013	Mechanical Drafters	1050	1110	60	5.60%	40 Postsecondary vocational training	
17-3021	Aerospace Engineering and Operations Technicians	360	380	20	4.97%	10 Associate degree	
17-3022	Civil Engineering Technicians	700	780	90	12.16%	20 Associate degree	
17-3023	Electrical and Electronic Engineering Technicians	2040	2280	240	11.93%	70 Associate degree	
17-3024	Electro-Mechanical Technicians	250	280	30	11.20%	10 Associate degree	
17-3025	Environmental Engineering Technicians	110	150	40	35.09%	10 Associate degree	
17-3027	Mechanical Engineering Technicians	500	550	50	9.22%	20 Associate degree	
17-3029	Engineering Technicians, Except Drafters, All Other	590	650	60	9.95%	20 Associate degree	
17-3031	Surveying and Mapping Technicians	660	710	60	8.84%	30 Moderate-term on-the-job training	
19-1010	Agricultural and Food Scientists	690	750	60	9.01%	20 Bachelor's degree	
19-1022	Microbiologists	60	70	10	25.45%	0 Doctoral degree	
19-1023	Zoologists and Wildlife Biologists	90	100	10	9.57%	0 Bachelor's degree	
19-1029	Biological Scientists, All Other	130	150	20	14.73%	10 Bachelor's degree	
19-1031	Conservation Scientists	480	520	50	9.87%	20 Bachelor's degree	
19-1032	Foresters	80	80	0	5.00%	0 Bachelor's degree	
19-1041	Epidemiologists	50	60	10	11.76%	0 Master's degree	
19-1042	Medical Scientists, Except Epidemiologists	1250	1640	380	30.62%	60 Doctoral degree	
19-2021	Atmospheric and Space Scientists	170	180	10	6.63%	10 Bachelor's degree	
19-2031	Chemists	380	450	70	17.02%	20 Bachelor's degree	

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19-2041	Environmental Scientists and Specialists, Including Health	1350	1670	320	23.26%	60	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	870	870	-10	-0.57%	20	Master's degree
19-2043	Hydrologists	60	80	20	26.67%	0	Master's degree
19-2099	Physical Scientists, All Other	60	60	0	3.33%	0	Bachelor's degree
19-3011	Economists	90	90	0	2.35%	0	Master's degree
19-3021	Market Research Analysts	1850	2190	340	18.13%	80	Bachelor's degree
19-3022	Survey Researchers	150	200	40	27.92%	10	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	1650	1900	260	15.61%	60	Doctoral degree
19-3039	Psychologists, All Other	120	130	0	3.31%	0	Master's degree
19-3051	Urban and Regional Planners	320	400	80	25.94%	20	Master's degree
19-3093	Historians	50	50	0	4.00%	0	Master's degree
19-3099	Social Scientists and Related Workers, All Other	210	230	20	9.09%	10	Master's degree
19-4011	Agricultural and Food Science Technicians	180	190	10	6.78%	10	Associate degree
19-4021	Biological Technicians	990	1170	180	17.68%	30	Associate degree
19-4031	Chemical Technicians	350	410	60	18.16%	20	Associate degree
19-4041	Geological and Petroleum Technicians	780	830	40	5.63%	20	Associate degree
19-4091	Environmental Science and Protection Technicians, Including	430	480	50	12.04%	20	Associate degree
19-4092	Forensic Science Technicians	90	120	30	36.78%	10	Associate degree
19-4093	Forest and Conservation Technicians	140	150	10	4.93%	0	Associate degree
19-4099	Life, Physical, and Social Science Technicians, All Other	380	410	30	7.57%	10	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	840	1040	210	24.73%	40	Master's degree
21-1012	Educational, Vocational, and School Counselors	3360	3670	320	9.44%	110	Master's degree
21-1013	Marriage and Family Therapists	220	280	50	23.32%	10	Master's degree
21-1014	Mental Health Counselors	1420	1760	350	24.52%	70	Master's degree
21-1015	Rehabilitation Counselors	1880	2370	490	25.86%	90	Master's degree
21-1019	Counselors, All Other	90	110	20	23.53%	0	Master's degree
21-1021	Child, Family, and School Social Workers	6120	6940	820	13.42%	190	Bachelor's degree
21-1022	Medical and Public Health Social Workers	1030	1250	210	20.60%	40	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	940	1140	200	20.68%	40	Master's degree
21-1029	Social Workers, All Other	850	940	90	10.38%	30	Bachelor's degree
21-1091	Health Educators	710	880	170	24.50%	30	Master's degree
21-1092	Probation Officers and Correctional Treatment Specialists	890	1030	150	16.44%	30	Bachelor's degree
21-1093	Social and Human Service Assistants	2430	3140	710	29.39%	110	Moderate-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	930	1190	260	28.26%	40	Bachelor's degree
21-2011	Clergy	980	1130	150	15.31%	40	Master's degree
21-2021	Directors, Religious Activities and Education	450	550	100	21.29%	20	Bachelor's degree
23-1011	Lawyers	8160	8870	710	8.70%	180	First professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officer	440	480	30	7.47%	10	Bachelor's or higher degree, plus work exp.
23-1023	Judges, Magistrate Judges, and Magistrates	270	300	20	8.82%	10	Bachelor's or higher degree, plus work exp.

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23-2011	Paralegals and Legal Assistants	1720	2090	370	21.20%	50	Associate degree
23-2091	Court Reporters	270	270	0	1.12%	0	Postsecondary vocational training
23-2092	Law Clerks	430	440	10	3.26%	10	Bachelor's degree
23-2093	Title Examiners, Abstractors, and Searchers	1690	1610	-80	-4.78%	20	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	690	730	40	6.40%	10	Bachelor's degree
25-1000	Postsecondary Teachers	18910	23710	4800	25.37%	910	Doctoral degree
25-2011	Preschool Teachers, Except Special Education	7020	9320	2300	32.83%	310	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	2120	2450	330	15.70%	60	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	17060	19160	2100	12.29%	590	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Educat	7120	7620	500	7.04%	210	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	220	240	20	6.76%	10	Bachelor's or higher degree, plus work exp.
25-2031	Secondary School Teachers, Except Special and Vocational Edu	10530	11570	1040	9.91%	400	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	1050	1160	110	10.54%	40	Bachelor's or higher degree, plus work exp.
25-2041	Special Education Teachers, Preschool, Kindergarten, and Ele	2070	2550	490	23.45%	100	Bachelor's degree
25-2042	Special Education Teachers, Middle School	920	1110	190	20.70%	40	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	1190	1390	190	16.28%	50	Bachelor's degree
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Ins	980	1090	110	11.28%	20	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	1870	2260	380	20.46%	60	Work experience in a related occupation
25-3099	Teachers and Instructors, All Other	9130	10470	1340	14.62%	250	Bachelor's degree
25-4010	Archivists, Curators, and Museum Technicians	200	260	60	29.65%	10	Master's degree
25-4021	Librarians	1870	1980	110	5.61%	60	Master's degree
25-4031	Library Technicians	1550	1750	200	13.18%	80	Postsecondary vocational training
25-9011	Audio-Visual Collections Specialists	80	90	10	10.98%	0	Moderate-term on-the-job training
25-9031	Instructional Coordinators	1270	1500	240	18.89%	40	Master's degree
25-9041	Teacher Assistants	9630	10980	1350	14.01%	320	Short-term on-the-job training
25-9099	Education, Training, and Library Workers, All Other	480	560	70	15.15%	20	Bachelor's degree
27-1011	Art Directors	270	300	30	11.24%	10	Bachelor's or higher degree, plus work exp.
27-1012	Craft Artists	50	60	0	7.84%	0	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrator	170	170	0	0.61%	0	Long-term on-the-job training
27-1014	Multi-Media Artists and Animators	650	650	10	0.93%	20	Bachelor's degree
27-1019	Artists and Related Workers, All Other	70	80	10	16.67%	0	Long-term on-the-job training
27-1021	Commercial and Industrial Designers	360	390	30	8.66%	10	Bachelor's degree
27-1023	Floral Designers	1410	1610	190	13.66%	40	Moderate-term on-the-job training
27-1024	Graphic Designers	1950	2180	230	11.85%	50	Bachelor's degree
27-1025	Interior Designers	290	310	20	7.96%	10	Associate degree
27-1026	Merchandise Displayers and Window Trimmers	1030	1160	140	13.12%	30	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	110	110	0	1.90%	0	Bachelor's degree
27-2012	Producers and Directors	780	860	80	10.26%	20	Bachelor's or higher degree, plus work exp.
27-2021	Athletes and Sports Competitors	120	140	20	13.11%	0	Long-term on-the-job training

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		27-2022	Coaches and Scouts	1980	2270		
27-2032	Choreographers	210	250	40	18.22%	20 Work experience in a related occupation	
27-2042	Musicians and Singers	880	960	80	9.55%	30 Long-term on-the-job training	
27-3010	Announcers	1170	1080	-80	-7.04%	30 Long-term on-the-job training	
27-3020	News Analysts, Reporters, and Correspondents	1020	1050	20	2.35%	30 Bachelor's or higher degree, plus work exp.	
27-3031	Public Relations Specialists	2350	2830	480	20.37%	80 Bachelor's degree	
27-3041	Editors	1030	1200	180	17.06%	40 Bachelor's degree	
27-3042	Technical Writers	490	580	90	17.28%	20 Bachelor's degree	
27-3043	Writers and Authors	1300	1480	180	13.86%	40 Bachelor's degree	
27-3091	Interpreters and Translators	220	280	60	25.45%	10 Long-term on-the-job training	
27-3099	Media and Communication Workers, All Other	150	170	10	9.27%	0 Long-term on-the-job training	
27-4011	Audio and Video Equipment Technicians	370	420	50	14.40%	10 Long-term on-the-job training	
27-4012	Broadcast Technicians	540	570	30	6.17%	20 Associate degree	
27-4014	Sound Engineering Technicians	90	110	20	18.89%	0 Postsecondary vocational training	
27-4021	Photographers	1700	2040	340	19.96%	70 Long-term on-the-job training	
27-4031	Camera Operators, Television, Video, and Motion Picture	220	230	10	4.93%	10 Moderate-term on-the-job training	
27-4032	Film and Video Editors	120	130	10	8.26%	0 Bachelor's degree	
27-4099	Media and Communication Equipment Workers, All Other	120	130	10	11.11%	0 Moderate-term on-the-job training	
29-1011	Chiropractors	480	530	60	11.95%	20 First professional degree	
29-1020	Dentists	2860	3160	300	10.31%	80 First professional degree	
29-1031	Dietitians and Nutritionists	720	810	100	13.69%	30 Bachelor's degree	
29-1041	Optometrists	370	420	40	11.23%	20 First professional degree	
29-1051	Pharmacists	3060	3890	820	26.84%	140 First professional degree	
29-1060	Physicians and Surgeons	5430	6280	850	15.65%	160 First professional degree	
29-1071	Physician Assistants	930	1300	370	39.96%	50 Bachelor's degree	
29-1111	Registered Nurses	24480	30800	6320	25.80%	1140 Associate degree	
29-1122	Occupational Therapists	810	1020	210	26.55%	30 Master's degree	
29-1123	Physical Therapists	1790	2270	480	26.79%	70 Master's degree	
29-1124	Radiation Therapists	140	160	20	16.67%	10 Associate degree	
29-1125	Recreational Therapists	320	330	10	3.09%	10 Bachelor's degree	
29-1126	Respiratory Therapists	1070	1320	250	23.67%	60 Associate degree	
29-1127	Speech-Language Pathologists	1410	1550	140	9.81%	50 Master's degree	
29-1129	Therapists, All Other	180	180	0	-1.66%	0 Bachelor's degree	
29-1131	Veterinarians	800	1050	250	30.60%	40 First professional degree	
29-1199	Health Diagnosing and Treating Practitioners, All Other	710	870	150	21.43%	30 Bachelor's degree	
29-2011	Medical and Clinical Laboratory Technologists	1640	1940	310	18.83%	80 Bachelor's degree	
29-2012	Medical and Clinical Laboratory Technicians	1730	2080	350	20.01%	80 Associate degree	
29-2021	Dental Hygienists	1060	1500	440	41.56%	50 Associate degree	
29-2031	Cardiovascular Technologists and Technicians	550	660	110	20.77%	20 Associate degree	

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29-2032	Diagnostic Medical Sonographers	480	600	130	26.68%	20	Associate degree
29-2033	Nuclear Medicine Technologists	220	270	50	20.09%	10	Associate degree
29-2034	Radiologic Technologists and Technicians	2030	2430	410	20.08%	80	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	3330	4290	960	28.86%	130	Postsecondary vocational training
29-2051	Dietetic Technicians	290	330	40	14.29%	10	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	3640	4750	1100	30.21%	160	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	540	550	10	1.87%	10	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	370	360	0	-0.27%	10	Associate degree
29-2055	Surgical Technologists	1410	1730	320	23.04%	50	Postsecondary vocational training
29-2056	Veterinary Technologists and Technicians	530	740	220	40.99%	30	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	13560	15240	1690	12.45%	460	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	2400	2920	520	21.52%	90	Associate degree
29-2081	Opticians, Dispensing	640	710	70	11.01%	20	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	140	180	40	26.43%	10	Bachelor's degree
29-2099	Health Technologists and Technicians, All Other	430	500	60	14.06%	10	Postsecondary vocational training
29-9010	Occupational Health and Safety Specialists and Technicians	580	680	100	16.72%	20	Bachelor's degree
29-9091	Athletic Trainers	280	370	90	31.91%	20	Bachelor's degree
31-1011	Home Health Aides	7480	11020	3540	47.29%	450	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	21740	25410	3670	16.87%	650	Postsecondary vocational training
31-1013	Psychiatric Aides	800	840	40	4.76%	10	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	480	610	130	26.92%	20	Associate degree
31-2012	Occupational Therapist Aides	60	70	10	18.64%	0	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1080	1490	410	37.69%	60	Associate degree
31-2022	Physical Therapist Aides	670	800	130	20.06%	30	Short-term on-the-job training
31-9011	Massage Therapists	330	400	70	21.32%	10	Postsecondary vocational training
31-9091	Dental Assistants	2500	3460	960	38.61%	170	Moderate-term on-the-job training
31-9092	Medical Assistants	5800	8300	2510	43.21%	360	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	480	580	100	21.25%	20	Short-term on-the-job training
31-9094	Medical Transcriptionists	1600	1930	330	20.72%	60	Postsecondary vocational training
31-9095	Pharmacy Aides	890	1040	150	16.27%	30	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1030	1310	280	26.87%	50	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	1220	1430	210	17.19%	40	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	510	610	100	19.14%	30	Work experience in a related occupation
33-1012	First-Line Supervisors/Managers of Police and Detectives	910	1120	210	23.03%	50	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevent	1100	1370	280	25.18%	70	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers,	250	280	30	11.25%	10	Work experience in a related occupation
33-2011	Fire Fighters	3900	4980	1080	27.59%	220	Long-term on-the-job training
33-2022	Forest Fire Inspectors and Prevention Specialists	90	90	0	1.12%	0	Work experience in a related occupation
33-3012	Correctional Officers and Jailers	4570	5430	860	18.80%	180	Moderate-term on-the-job training

Occupation Code	Occupation Title	Employment		Employment Change, 2004-2014		Average Annual Openings	Education Attainment
		2004	2014	Numeric	Percent		
33-3021	Detectives and Criminal Investigators	780	930	150	19.43%	40	Work experience in a related occupation
33-3031	Fish and Game Wardens	200	230	30	13.43%	10	Associate degree
33-3041	Parking Enforcement Workers	60	80	10	22.58%	0	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	8040	9730	1690	20.97%	380	Long-term on-the-job training
33-9011	Animal Control Workers	350	430	80	21.65%	30	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	910	1040	130	14.46%	30	Work experience in a related occupation
33-9031	Gaming Surveillance Officers and Gaming Investigators	340	430	80	23.55%	20	Moderate-term on-the-job training
33-9032	Security Guards	8950	9400	450	5.06%	240	Short-term on-the-job training
33-9091	Crossing Guards	290	330	40	12.85%	10	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Se	1220	1440	220	18.17%	110	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	990	1110	120	12.10%	80	Short-term on-the-job training
35-1011	Chefs and Head Cooks	2030	2320	300	14.55%	90	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serv	7850	9030	1190	15.10%	310	Work experience in a related occupation
35-2011	Cooks, Fast Food	12410	14240	1830	14.76%	570	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	7280	7440	150	2.10%	240	Moderate-term on-the-job training
35-2014	Cooks, Restaurant	8140	9330	1180	14.53%	370	Long-term on-the-job training
35-2015	Cooks, Short Order	2280	2610	330	14.29%	100	Short-term on-the-job training
35-2021	Food Preparation Workers	7810	9190	1380	17.68%	410	Short-term on-the-job training
35-3011	Bartenders	4010	4550	550	13.68%	210	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fas	27130	31220	4090	15.07%	1590	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee S	3350	3910	560	16.85%	280	Short-term on-the-job training
35-3031	Waiters and Waitresses	25200	28900	3700	14.68%	1670	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	4180	4330	150	3.54%	160	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	2870	3270	400	13.92%	140	Short-term on-the-job training
35-9021	Dishwashers	5290	6030	740	14.07%	250	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3830	4380	550	14.45%	180	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitori	2040	2330	290	14.12%	80	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service	1750	2000	250	14.00%	40	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaner	24950	28950	3990	16.00%	870	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	12310	13840	1540	12.50%	410	Short-term on-the-job training
37-2021	Pest Control Workers	1030	1100	70	6.29%	20	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	10110	11530	1420	14.07%	360	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	610	650	30	5.55%	20	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	1100	1170	60	5.81%	30	Short-term on-the-job training
39-1011	Gaming Supervisors	300	390	90	30.54%	20	Work experience in a related occupation
39-1021	First-Line Supervisors/Managers of Personal Service Workers	1620	1880	260	16.02%	70	Work experience in a related occupation
39-2011	Animal Trainers	830	980	150	18.17%	30	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	1760	2300	540	30.53%	100	Short-term on-the-job training
39-3011	Gaming Dealers	510	700	180	35.48%	30	Postsecondary vocational training



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		2004	2014	Numeric	Percent		
		39-3012	Gaming and Sports Book Writers and Runners	410	510		
39-3021	Motion Picture Projectionists	100	80	-20	-20.19%	10 Short-term on-the-job training	
39-3031	Ushers, Lobby Attendants, and Ticket Takers	680	720	40	6.18%	40 Short-term on-the-job training	
39-3091	Amusement and Recreation Attendants	1600	2020	410	25.70%	90 Short-term on-the-job training	
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	240	290	50	21.43%	10 Short-term on-the-job training	
39-4011	Embalmers	70	80	10	16.92%	0 Postsecondary vocational training	
39-4021	Funeral Attendants	550	670	120	21.90%	20 Short-term on-the-job training	
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3610	4280	670	18.45%	140 Postsecondary vocational training	
39-5092	Manicurists and Pedicurists	190	230	40	23.16%	10 Postsecondary vocational training	
39-5093	Shampooers	120	140	20	13.22%	0 Short-term on-the-job training	
39-5094	Skin Care Specialists	230	280	50	21.15%	10 Postsecondary vocational training	
39-6011	Baggage Porters and Bellhops	300	320	20	6.27%	10 Short-term on-the-job training	
39-6012	Concierges	70	80	10	12.86%	0 Moderate-term on-the-job training	
39-6021	Tour Guides and Escorts	90	80	0	-3.45%	0 Moderate-term on-the-job training	
39-9011	Child Care Workers	10330	12140	1800	17.46%	460 Short-term on-the-job training	
39-9021	Personal and Home Care Aides	9280	13020	3740	40.35%	520 Short-term on-the-job training	
39-9031	Fitness Trainers and Aerobics Instructors	3050	3690	640	21.12%	130 Postsecondary vocational training	
39-9032	Recreation Workers	3340	3910	570	17.04%	130 Short-term on-the-job training	
39-9041	Residential Advisors	480	610	130	26.61%	20 Moderate-term on-the-job training	
39-9099	Personal Care and Service Workers, All Other	280	350	80	27.80%	10 Short-term on-the-job training	
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	17980	18510	530	2.93%	380 Work experience in a related occupation	
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	3410	3480	80	2.20%	70 Work experience in a related occupation	
41-2011	Cashiers	42850	44350	1490	3.48%	2230 Short-term on-the-job training	
41-2012	Gaming Change Persons and Booth Cashiers	670	860	190	28.44%	50 Short-term on-the-job training	
41-2021	Counter and Rental Clerks	4880	5880	1000	20.55%	290 Short-term on-the-job training	
41-2022	Parts Salespersons	3330	3090	-240	-7.18%	100 Moderate-term on-the-job training	
41-2031	Retail Salespersons	46810	54830	8020	17.12%	2500 Short-term on-the-job training	
41-3011	Advertising Sales Agents	1700	1910	210	12.35%	50 Moderate-term on-the-job training	
41-3021	Insurance Sales Agents	4750	5200	450	9.44%	160 Bachelor's degree	
41-3031	Securities, Commodities, and Financial Services Sales Agents	1700	1730	40	2.18%	20 Bachelor's degree	
41-3041	Travel Agents	610	400	-210	-34.75%	10 Postsecondary vocational training	
41-3099	Sales Representatives, Services, All Other	3430	4080	650	19.00%	130 Moderate-term on-the-job training	
41-4011	Sales Representatives, Wholesale and Manufacturing, Technica	4920	5530	610	12.40%	190 Moderate-term on-the-job training	
41-4012	Sales Representatives, Wholesale and Manufacturing, Except T	10290	11540	1250	12.12%	400 Moderate-term on-the-job training	
41-9011	Demonstrators and Product Promoters	600	710	100	17.22%	20 Moderate-term on-the-job training	
41-9021	Real Estate Brokers	1090	1210	120	11.40%	30 Work experience in a related occupation	
41-9022	Real Estate Sales Agents	5250	6200	960	18.22%	200 Postsecondary vocational training	
41-9031	Sales Engineers	550	610	50	9.80%	20 Bachelor's degree	
41-9041	Telemarketers	5680	5710	40	0.65%	100 Short-term on-the-job training	

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41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Rel	3390	2960	-440	-12.82%	80	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	1290	1550	260	20.44%	50	Moderate-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative	15570	16570	1000	6.40%	430	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	2650	2390	-270	-9.98%	70	Short-term on-the-job training
43-3011	Bill and Account Collectors	5230	6270	1050	20.08%	200	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	7330	7260	-70	-0.90%	120	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	24360	25030	670	2.73%	520	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	280	340	60	22.06%	20	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	3040	3550	510	16.63%	130	Moderate-term on-the-job training
43-3061	Procurement Clerks	1260	1180	-70	-5.89%	30	Short-term on-the-job training
43-3071	Tellers	8560	9270	710	8.34%	490	Short-term on-the-job training
43-4011	Brokerage Clerks	300	290	-10	-3.29%	0	Moderate-term on-the-job training
43-4021	Correspondence Clerks	420	390	-30	-6.49%	10	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	2110	2660	550	26.20%	100	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	440	250	-180	-41.74%	10	Short-term on-the-job training
43-4051	Customer Service Representatives	26440	32880	6440	24.36%	1040	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	760	710	-50	-6.68%	20	Moderate-term on-the-job training
43-4071	File Clerks	2930	1800	-1140	-38.79%	90	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	1950	2070	120	6.05%	100	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1940	2370	430	22.41%	90	Short-term on-the-job training
43-4121	Library Assistants, Clerical	830	940	110	13.73%	50	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	1810	1800	-10	-0.39%	30	Short-term on-the-job training
43-4141	New Accounts Clerks	1050	1070	20	2.30%	30	Work experience in a related occupation
43-4151	Order Clerks	2420	1790	-630	-25.94%	50	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	3210	3720	510	15.88%	120	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	13080	15340	2260	17.26%	550	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Cler	2010	2080	70	3.63%	60	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	2920	2600	-310	-10.77%	50	Short-term on-the-job training
43-5011	Cargo and Freight Agents	610	630	20	3.10%	20	Moderate-term on-the-job training
43-5021	Couriers and Messengers	1240	1100	-140	-11.22%	30	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1870	2290	420	22.71%	80	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2190	2340	150	6.62%	60	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	810	480	-330	-40.57%	30	Short-term on-the-job training
43-5051	Postal Service Clerks	610	550	-60	-10.16%	20	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	4110	3700	-410	-10.07%	130	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Mach	1990	1790	-200	-10.11%	50	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	3380	3710	330	9.70%	120	Short-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	6830	7090	260	3.81%	170	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	16740	15680	-1060	-6.32%	620	Short-term on-the-job training

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43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	620	560	-60	-9.68%	20	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	18870	20590	1720	9.12%	530	Moderate-term on-the-job training
43-6012	Legal Secretaries	3380	3670	290	8.48%	90	Postsecondary vocational training
43-6013	Medical Secretaries	4620	5100	480	10.28%	140	Postsecondary vocational training
43-6014	Secretaries, Except Legal, Medical, and Executive	23890	22850	-1040	-4.35%	460	Moderate-term on-the-job training
43-9011	Computer Operators	1570	1060	-510	-32.61%	30	Moderate-term on-the-job training
43-9021	Data Entry Keyers	3080	2970	-100	-3.35%	70	Moderate-term on-the-job training
43-9022	Word Processors and Typists	1150	910	-230	-20.33%	30	Moderate-term on-the-job training
43-9031	Desktop Publishers	170	200	30	18.82%	10	Postsecondary vocational training
43-9041	Insurance Claims and Policy Processing Clerks	2810	2980	180	6.24%	60	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Servic	1270	780	-490	-38.88%	40	Short-term on-the-job training
43-9061	Office Clerks, General	37010	39390	2370	6.41%	1060	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	710	540	-170	-23.52%	20	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	1170	1280	110	9.12%	40	Short-term on-the-job training
45-2011	Agricultural Inspectors	260	280	20	5.77%	10	Work experience in a related occupation
45-2041	Graders and Sorters, Agricultural Products	750	780	30	4.26%	20	Work experience in a related occupation
45-2091	Agricultural Equipment Operators	1510	1460	-50	-3.38%	40	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	15770	15360	-410	-2.62%	450	Short-term on-the-job training
45-4021	Fallers	430	520	90	20.37%	20	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	1130	1200	70	5.82%	30	Moderate-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and E	6640	6980	340	5.15%	150	Work experience in a related occupation
47-2011	Boilermakers	260	250	-20	-5.73%	10	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	1490	1850	360	23.96%	60	Long-term on-the-job training
47-2031	Carpenters	9550	10730	1180	12.36%	270	Long-term on-the-job training
47-2041	Carpet Installers	360	390	30	7.54%	10	Moderate-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	280	300	20	8.36%	10	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	320	400	80	24.84%	10	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2570	2860	290	11.31%	80	Moderate-term on-the-job training
47-2061	Construction Laborers	10780	12140	1360	12.60%	280	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1510	1710	200	13.43%	40	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operato	4130	4550	420	10.14%	150	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	1310	1410	100	7.80%	40	Moderate-term on-the-job training
47-2082	Tapers	220	230	10	4.61%	10	Moderate-term on-the-job training
47-2111	Electricians	6930	7760	830	12.02%	220	Long-term on-the-job training
47-2121	Glaziers	510	560	60	11.24%	20	Long-term on-the-job training
47-2130	Insulation Workers	820	830	20	1.96%	30	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	5000	5660	660	13.23%	140	Moderate-term on-the-job training
47-2142	Paperhangers	110	110	0	0.00%	0	Moderate-term on-the-job training
47-2151	Pipelayers	870	940	70	7.83%	30	Moderate-term on-the-job training

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		47-2152	Plumbers, Pipefitters, and Steamfitters	6850	7890		
47-2161	Plasterers and Stucco Masons	120	130	20	12.71%	0 Long-term on-the-job training	
47-2171	Reinforcing Iron and Rebar Workers	110	120	10	10.09%	0 Long-term on-the-job training	
47-2181	Roofers	1240	1440	200	16.19%	50 Moderate-term on-the-job training	
47-2211	Sheet Metal Workers	3070	3330	260	8.53%	100 Long-term on-the-job training	
47-2221	Structural Iron and Steel Workers	730	940	200	27.79%	40 Long-term on-the-job training	
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and	630	760	140	21.76%	40 Short-term on-the-job training	
47-3012	Helpers--Carpenters	510	550	40	7.99%	30 Short-term on-the-job training	
47-3013	Helpers--Electricians	940	960	20	2.34%	40 Short-term on-the-job training	
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Maso	150	170	20	11.84%	10 Short-term on-the-job training	
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1240	1420	190	15.30%	70 Short-term on-the-job training	
47-3016	Helpers--Roofers	240	280	40	15.97%	10 Short-term on-the-job training	
47-3019	Helpers, Construction Trades, All Other	160	140	-20	-14.72%	10 Short-term on-the-job training	
47-4011	Construction and Building Inspectors	1590	1950	370	23.20%	70 Work experience in a related occupation	
47-4021	Elevator Installers and Repairers	120	140	20	13.93%	10 Long-term on-the-job training	
47-4041	Hazardous Materials Removal Workers	260	330	70	25.19%	10 Moderate-term on-the-job training	
47-4051	Highway Maintenance Workers	3300	4040	740	22.45%	120 Moderate-term on-the-job training	
47-4061	Rail-Track Laying and Maintenance Equipment Operators	90	90	-10	-5.56%	0 Moderate-term on-the-job training	
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	140	170	30	18.71%	10 Moderate-term on-the-job training	
47-4099	Construction and Related Workers, All Other	460	480	20	3.47%	10 Moderate-term on-the-job training	
47-5011	Derrick Operators, Oil and Gas	1400	1500	100	7.05%	50 Moderate-term on-the-job training	
47-5012	Rotary Drill Operators, Oil and Gas	1120	1200	90	7.80%	40 Moderate-term on-the-job training	
47-5013	Service Unit Operators, Oil, Gas, and Mining	1700	1800	100	6.08%	60 Moderate-term on-the-job training	
47-5021	Earth Drillers, Except Oil and Gas	180	190	10	6.18%	10 Moderate-term on-the-job training	
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	440	460	20	4.54%	20 Moderate-term on-the-job training	
47-5071	Roustabouts, Oil and Gas	1730	1850	110	6.59%	60 Moderate-term on-the-job training	
47-5081	Helpers--Extraction Workers	1530	1650	120	7.51%	60 Short-term on-the-job training	
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, an	6890	7830	940	13.68%	270 Work experience in a related occupation	
49-2011	Computer, Automated Teller, and Office Machine Repairers	2020	2120	110	5.20%	40 Postsecondary vocational training	
49-2021	Radio Mechanics	80	80	10	12.00%	0 Postsecondary vocational training	
49-2022	Telecommunications Equipment Installers and Repairers, Excep	2290	2320	30	1.35%	50 Long-term on-the-job training	
49-2091	Avionics Technicians	930	980	50	5.82%	30 Postsecondary vocational training	
49-2092	Electric Motor, Power Tool, and Related Repairers	430	440	10	1.87%	10 Postsecondary vocational training	
49-2093	Electrical and Electronics Installers and Repairers, Transpo	190	210	20	10.70%	10 Postsecondary vocational training	
49-2094	Electrical and Electronics Repairers, Commercial and Industr	970	1060	100	9.81%	30 Postsecondary vocational training	
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation	280	300	20	6.01%	10 Postsecondary vocational training	
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicle	320	330	0	0.62%	10 Postsecondary vocational training	
49-2098	Security and Fire Alarm Systems Installers	590	680	90	15.93%	20 Postsecondary vocational training	
49-3011	Aircraft Mechanics and Service Technicians	4930	5100	170	3.53%	130 Postsecondary vocational training	

Occupation Code	Occupation Title	Employment		Employment Change, 2004-2014		Average Annual Openings	Education Attainment
		2004	2014	Numeric	Percent		
		49-3021	Automotive Body and Related Repairers	2340	2600		
49-3022	Automotive Glass Installers and Repairers	110	120	10	12.96%	0 Long-term on-the-job training	
49-3023	Automotive Service Technicians and Mechanics	9270	10810	1540	16.61%	400 Postsecondary vocational training	
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3170	3630	460	14.53%	130 Postsecondary vocational training	
49-3041	Farm Equipment Mechanics	480	500	20	4.57%	10 Postsecondary vocational training	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1510	1600	80	5.48%	40 Postsecondary vocational training	
49-3043	Rail Car Repairers	150	150	10	4.05%	0 Long-term on-the-job training	
49-3051	Motorboat Mechanics	280	320	50	16.13%	10 Long-term on-the-job training	
49-3052	Motorcycle Mechanics	210	240	30	13.46%	10 Long-term on-the-job training	
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	490	560	70	15.20%	20 Moderate-term on-the-job training	
49-3092	Recreational Vehicle Service Technicians	210	250	40	20.57%	10 Long-term on-the-job training	
49-3093	Tire Repairers and Changers	950	980	40	3.70%	40 Short-term on-the-job training	
49-9011	Mechanical Door Repairers	380	440	60	16.23%	20 Moderate-term on-the-job training	
49-9012	Control and Valve Installers and Repairers, Except Mechanica	1050	1080	30	2.87%	30 Moderate-term on-the-job training	
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and I	3020	3660	640	21.32%	110 Long-term on-the-job training	
49-9031	Home Appliance Repairers	410	440	30	6.33%	10 Long-term on-the-job training	
49-9041	Industrial Machinery Mechanics	3970	4140	170	4.31%	100 Long-term on-the-job training	
49-9042	Maintenance and Repair Workers, General	15110	17560	2440	16.16%	530 Moderate-term on-the-job training	
49-9043	Maintenance Workers, Machinery	1340	1430	90	6.96%	40 Short-term on-the-job training	
49-9044	Millwrights	330	360	30	7.51%	10 Long-term on-the-job training	
49-9045	Refractory Materials Repairers, Except Brickmasons	80	90	10	7.59%	0 Moderate-term on-the-job training	
49-9051	Electrical Power-Line Installers and Repairers	1640	1730	90	5.17%	60 Long-term on-the-job training	
49-9052	Telecommunications Line Installers and Repairers	2610	3110	500	19.20%	120 Long-term on-the-job training	
49-9062	Medical Equipment Repairers	260	290	40	13.51%	10 Associate degree	
49-9069	Precision Instrument and Equipment Repairers, All Other	110	120	10	6.19%	0 Moderate-term on-the-job training	
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	530	540	20	2.84%	10 Moderate-term on-the-job training	
49-9094	Locksmiths and Safe Repairers	300	380	80	27.12%	20 Moderate-term on-the-job training	
49-9096	Riggers	70	70	0	2.94%	0 Short-term on-the-job training	
49-9098	Helpers--Installation, Maintenance, and Repair Workers	2580	3030	450	17.33%	130 Short-term on-the-job training	
49-9099	Installation, Maintenance, and Repair Workers, All Other	1030	1140	110	10.36%	30 Moderate-term on-the-job training	
51-1011	First-Line Supervisors/Managers of Production and Operating	7370	7780	410	5.56%	200 Work experience in a related occupation	
51-2021	Coil Winders, Tapers, and Finishers	190	140	-50	-24.47%	0 Short-term on-the-job training	
51-2022	Electrical and Electronic Equipment Assemblers	1160	1130	-40	-3.18%	30 Short-term on-the-job training	
51-2023	Electromechanical Equipment Assemblers	300	260	-40	-12.67%	10 Short-term on-the-job training	
51-2041	Structural Metal Fabricators and Fitters	1460	1530	80	5.36%	40 Moderate-term on-the-job training	
51-2091	Fiberglass Laminators and Fabricators	590	690	110	17.92%	30 Moderate-term on-the-job training	
51-2092	Team Assemblers	16580	18480	1910	11.50%	620 Moderate-term on-the-job training	
51-2099	Assemblers and Fabricators, All Other	1260	1380	120	9.11%	40 Moderate-term on-the-job training	
51-3011	Bakers	1100	1290	190	17.20%	40 Long-term on-the-job training	

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51-3021	Butchers and Meat Cutters	1550	1580	40	2.33%	40	Long-term on-the-job training
51-3092	Food Batchmakers	840	950	110	13.23%	30	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	650	700	50	7.56%	20	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plasti	2050	2100	50	2.44%	40	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	160	160	0	2.55%	0	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tender	680	580	-100	-14.91%	20	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and P	670	680	10	1.20%	10	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and P	270	280	10	4.80%	10	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and	3000	2660	-340	-11.35%	70	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Ten	490	460	-20	-4.72%	10	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Sette	1170	1150	-30	-2.13%	20	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tende	670	650	-30	-3.87%	10	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders,	380	400	20	5.80%	10	Moderate-term on-the-job training
51-4041	Machinists	5520	5960	430	7.84%	170	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	150	150	0	1.37%	0	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	80	80	0	0.00%	0	Moderate-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	130	130	0	0.77%	0	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	110	110	10	5.71%	0	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators,	1030	990	-40	-3.61%	30	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal	1400	1420	20	1.14%	40	Moderate-term on-the-job training
51-4111	Tool and Die Makers	460	470	10	1.30%	10	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	8250	8880	630	7.62%	300	Long-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators,	1390	1410	30	1.80%	40	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Met	330	350	20	4.49%	10	Moderate-term on-the-job training
51-4192	Lay-Out Workers, Metal and Plastic	190	190	0	0.52%	0	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders,	600	630	40	6.03%	20	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	260	250	-10	-3.89%	10	Moderate-term on-the-job training
51-5011	Bindery Workers	530	450	-80	-15.63%	10	Short-term on-the-job training
51-5021	Job Printers	620	550	-70	-11.18%	20	Long-term on-the-job training
51-5022	Prepress Technicians and Workers	640	570	-70	-10.89%	20	Postsecondary vocational training
51-5023	Printing Machine Operators	1720	1670	-40	-2.45%	40	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	2780	3110	330	11.76%	110	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	890	970	90	9.94%	20	Short-term on-the-job training
51-6031	Sewing Machine Operators	1300	930	-370	-28.66%	20	Moderate-term on-the-job training
51-6051	Sewers, Hand	140	150	10	9.49%	0	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	410	420	20	3.67%	10	Long-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	150	120	-30	-18.12%	0	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tender	120	110	-20	-12.20%	0	Moderate-term on-the-job training
51-6093	Upholsterers	370	320	-60	-15.78%	10	Long-term on-the-job training

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51-7011	Cabinetmakers and Bench Carpenters	1730	1790	60	3.59%	50	Long-term on-the-job training
51-7021	Furniture Finishers	130	140	0	2.26%	0	Long-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	520	500	-20	-2.89%	20	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except	730	680	-50	-6.68%	20	Moderate-term on-the-job training
51-8012	Power Distributors and Dispatchers	160	160	0	0.65%	0	Long-term on-the-job training
51-8013	Power Plant Operators	670	660	-10	-0.90%	20	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	360	390	30	8.54%	10	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	1740	2150	410	23.36%	100	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	150	140	-10	-8.11%	10	Long-term on-the-job training
51-8092	Gas Plant Operators	490	540	50	10.41%	20	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gau	1310	1210	-100	-7.84%	40	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	90	100	10	13.33%	0	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	320	320	0	-0.94%	10	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still	290	310	20	6.64%	10	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators	630	680	50	7.57%	20	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	550	520	-30	-5.82%	10	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1500	1610	110	7.47%	50	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	210	230	20	7.58%	10	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	740	750	20	2.17%	20	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters	590	670	70	12.48%	20	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	320	310	-10	-3.75%	10	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6070	6060	-10	-0.12%	140	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	160	140	-20	-13.41%	0	Postsecondary vocational training
51-9081	Dental Laboratory Technicians	420	500	80	19.00%	20	Long-term on-the-job training
51-9082	Medical Appliance Technicians	80	100	20	21.69%	0	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	330	340	10	3.98%	10	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	4220	4750	530	12.62%	140	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators,	2030	2200	170	8.39%	70	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	700	820	120	16.57%	30	Long-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	400	460	60	15.83%	20	Short-term on-the-job training
51-9131	Photographic Process Workers	570	500	-70	-12.94%	10	Moderate-term on-the-job training
51-9132	Photographic Processing Machine Operators	750	560	-180	-24.53%	20	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators an	250	280	30	10.89%	10	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	80	90	10	12.50%	0	Moderate-term on-the-job training
51-9194	Etchers and Engravers	100	90	0	-4.08%	0	Long-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	4340	4040	-300	-6.83%	100	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	750	750	0	-0.27%	20	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	6540	7450	910	13.96%	280	Short-term on-the-job training
51-9199	Production Workers, All Other	1300	1250	-50	-4.08%	30	Moderate-term on-the-job training

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		2004	2014	Numeric	Percent		
		53-1011	Aircraft Cargo Handling Supervisors	100	120		
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Ma	1720	1870	150	8.85%	60 Work experience in a related occupation	
53-1031	First-Line Supervisors/Managers of Transportation and Materi	2210	2520	310	13.91%	80 Work experience in a related occupation	
53-2011	Airline Pilots, Copilots, and Flight Engineers	200	210	10	4.59%	10 Bachelor's degree	
53-2012	Commercial Pilots	260	310	50	19.47%	10 Postsecondary vocational training	
53-2021	Air Traffic Controllers	280	320	40	14.91%	10 Long-term on-the-job training	
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical T	130	150	20	17.69%	0 Moderate-term on-the-job training	
53-3021	Bus Drivers, Transit and Intercity	820	1000	180	22.34%	40 Moderate-term on-the-job training	
53-3022	Bus Drivers, School	4650	5170	520	11.17%	150 Short-term on-the-job training	
53-3031	Driver/Sales Workers	6220	7050	830	13.26%	180 Short-term on-the-job training	
53-3032	Truck Drivers, Heavy and Tractor-Trailer	24660	27750	3090	12.55%	710 Moderate-term on-the-job training	
53-3033	Truck Drivers, Light or Delivery Services	10630	12390	1760	16.54%	270 Short-term on-the-job training	
53-3041	Taxi Drivers and Chauffeurs	1640	2000	360	21.94%	50 Short-term on-the-job training	
53-3099	Motor Vehicle Operators, All Other	1420	1560	150	10.24%	30 Short-term on-the-job training	
53-4010	Locomotive Engineers	280	300	10	4.59%	10 Moderate-term on-the-job training	
53-6021	Parking Lot Attendants	950	870	-80	-8.42%	30 Short-term on-the-job training	
53-6031	Service Station Attendants	700	710	10	0.86%	30 Short-term on-the-job training	
53-6041	Traffic Technicians	80	100	20	23.46%	0 Short-term on-the-job training	
53-6051	Transportation Inspectors	250	270	30	10.12%	10 Work experience in a related occupation	
53-6099	Transportation Workers, All Other	300	360	60	20.07%	20 Short-term on-the-job training	
53-7011	Conveyor Operators and Tenders	810	850	40	5.31%	30 Short-term on-the-job training	
53-7021	Crane and Tower Operators	410	460	50	11.46%	10 Long-term on-the-job training	
53-7032	Excavating and Loading Machine and Dragline Operators	1390	1450	70	4.91%	50 Moderate-term on-the-job training	
53-7033	Loading Machine Operators, Underground Mining	70	70	0	0.00%	0 Moderate-term on-the-job training	
53-7051	Industrial Truck and Tractor Operators	6180	6770	590	9.55%	180 Short-term on-the-job training	
53-7061	Cleaners of Vehicles and Equipment	4360	4780	430	9.75%	190 Short-term on-the-job training	
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	24060	26010	1950	8.12%	980 Short-term on-the-job training	
53-7063	Machine Feeders and Offbearers	1040	890	-150	-14.11%	30 Short-term on-the-job training	
53-7064	Packers and Packagers, Hand	6520	7060	540	8.27%	180 Short-term on-the-job training	
53-7071	Gas Compressor and Gas Pumping Station Operators	140	110	-30	-19.15%	0 Moderate-term on-the-job training	
53-7072	Pump Operators, Except Wellhead Pumps	1010	750	-250	-25.15%	20 Moderate-term on-the-job training	
53-7073	Wellhead Pumps	890	710	-180	-20.38%	20 Moderate-term on-the-job training	
53-7081	Refuse and Recyclable Material Collectors	1950	2180	230	11.63%	70 Short-term on-the-job training	
53-7121	Tank Car, Truck, and Ship Loaders	90	80	-10	-8.14%	0 Moderate-term on-the-job training	
53-7199	Material Moving Workers, All Other	260	250	-10	-3.08%	10 Moderate-term on-the-job training	