OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2020 - 2022

Occupation		Employment		Employment Change		Annual Total	Education and Training Classification		
Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
00-0000	**Total, All Occupations**	**1,792,400**	**1,799,990**	**7,590**	**0.42**	**185,380**			
11-0000	**Management Occupations**	**103,170**	**103,610**	**440**	**0.43**	**7,590**			
11-1000	**Top Executives**	**31,760**	**31,730**	**-30**	**-0.09**	**2,280**			
11-1011	Chief Executives	4,470	4,340	-140	-3.02	200	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	26,320	26,400	90	0.33	2,000	Bachelor's degree	5 years or more	None
11-1031	Legislators	970	990	20	2.27	80	Bachelor's degree	Less than 5 years	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	5,250	5,240	0	-0.06	400			
11-2011	Advertising and Promotions Managers	160	150	-10	-6.29	10	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,430	1,430	0	0.07	110	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	2,850	2,850	0	-0.11	220	Bachelor's degree	Less than 5 years	None
11-2030	Public Relations and Fundraising Managers	810	810	10	1.12	60	Bachelor's degree	5 years or more	None
11-3000	**Operations Specialties Managers**	**24,180**	**24,280**	**90**	**0.38**	**1,690**			
11-3010	Administrative Services and Facilities Managers	7,660	7,650	-10	-0.09	550	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	3,920	3,920	0	0.10	260	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	6,570	6,700	130	1.95	500	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	1,810	1,790	-20	-1.33	100	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	560	550	-10	-1.25	30	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,530	1,530	0	0.07	100	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	150	150	0	-0.65	10	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,500	1,490	-10	-0.47	100	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	490	500	10	1.23	40	Bachelor's degree	5 years or more	None
11-9000	**Other Management Occupations**	**41,980**	**42,360**	**380**	**0.90**	**3,220**			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	1,400	1,390	-20	-1.35	120	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	4,280	4,320	40	0.82	280	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	930	930	0	-0.21	60	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	3,410	3,500	90	2.67	270	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	2,210	2,170	-40	-1.81	120	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	370	370	10	1.36	30	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	2,350	2,270	-80	-3.24	100	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	5,020	5,030	10	0.16	500	High school diploma or equivalent	Less than 5 years	None
11-9071	Gaming Managers	400	410	0	0.74	40	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	620	600	-20	-3.53	50	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	7,770	8,240	470	6.06	790	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	330	340	10	2.13	30	Bachelor's degree	5 years or more	None
11-9151	Social and Community Service Managers	1,820	1,850	30	1.87	150	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	260	260	0	1.15	20	Bachelor's degree	5 years or more	None
11-9171	Funeral Home Managers	470	460	-10	-1.70	30	Associate's degree	Less than 5 years	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Ga	5,630	5,570	-60	-0.98	340	Bachelor's degree	Less than 5 years	None
13-0000	**Business and Financial Operations Occupations**	**88,710**	**88,810**	**110**	**0.12**	**7,430**			
13-1000	**Business Operations Specialists**	**58,430**	**58,700**	**270**	**0.46**	**5,150**			
13-1020	Buyers and Purchasing Agents	5,480	5,340	-140	-2.59	430	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,050	3,990	-60	-1.53	260	High school diploma or equivalent	None	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	110	110	0	-1.85	10	Postsecondary non-degree award	None	Moderate-term on-the-job training
13-1041	Compliance Officers	4,430	4,410	-20	-0.38	330	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	2,320	2,310	-10	-0.52	190	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	7,860	7,930	70	0.90	720	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	1,400	1,370	-40	-2.71	100	Bachelor's degree	Less than 5 years	None
13-1081	Logisticians	3,460	3,470	10	0.23	290	Bachelor's degree	None	None
13-1111	Management Analysts	5,830	5,970	140	2.31	560	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	1,650	1,660	10	0.42	170	Bachelor's degree	None	None
13-1131	Fundraisers	2,020	2,060	40	2.13	210	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	970	980	10	0.83	90	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	5,740	5,790	50	0.91	550	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	6,100	6,290	190	3.03	640	Bachelor's degree	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Othe	6,980	7,010	30	0.46	620	Bachelor's degree	None	None
13-2000	**Financial Specialists**	**30,280**	**30,120**	**-160**	**-0.54**	**2,280**			
13-2011	Accountants and Auditors	15,950	15,740	-210	-1.29	1,190	Bachelor's degree	None	None
13-2020	Property Appraisers and Assessors	980	990	20	1.54	80	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	800	770	-30	-3.38	40	Bachelor's degree	None	None
13-2041	Credit Analysts	680	680	0	-0.29	50	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,570	1,570	0	0.00	110	Bachelor's degree	None	Long-term on-the-job training
13-2053	Insurance Underwriters	790	770	-20	-2.17	50	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	460	480	10	2.37	40	Bachelor's degree	None	Long-term on-the-job training

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13-2071	Credit Counselors	580	590	10	1.55	50	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	3,980	4,020	40	0.93	310	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	430	440	0	0.23	40	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,370	1,380	10	0.51	150	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Sp	2,700	2,700	10	0.30	200	Bachelor's degree	None	None
15-0000	**Computer and Mathematical Occupations**	**34,300**	**34,280**	**-30**	**-0.08**	**2,170**			
15-1200	**Computer Occupations**	**32,950**	**32,900**	**-40**	**-0.13**	**2,070**			
15-1211	Computer Systems Analysts	3,380	3,350	-30	-0.95	200	Bachelor's degree	None	None
15-1212	Information Security Analysts	1,020	1,040	20	1.67	70	Bachelor's degree	Less than 5 years	None
15-1221	Computer and Information Research Scientists	300	300	10	2.03	20	Master's degree	None	None
15-1231	Computer Network Support Specialists	2,350	2,330	-20	-0.85	150	Associate's degree	None	None
15-1232	Computer User Support Specialists	7,090	7,070	-30	-0.37	460	Some college, no degree	None	None
15-1241	Computer Network Architects	1,010	1,010	0	-0.40	50	Bachelor's degree	5 years or more	None
15-1244	Network and Computer Systems Administrators	2,880	2,840	-40	-1.49	150	Bachelor's degree	None	None
15-1245	Database Administrators and Architects	2,130	2,120	-10	-0.33	130	Bachelor's degree	None	None
15-1251	Computer Programmers	1,460	1,390	-70	-4.59	50	Bachelor's degree	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	7,720	7,840	120	1.57	540	Bachelor's degree	None	None
15-1257	Web Developers and Digital Interface Designers	800	800	0	-0.50	50	Associate's degree	None	None
15-1299	Computer Occupations, All Other	2,810	2,830	20	0.53	200	Bachelor's degree	None	None
15-2000	**Mathematical Science Occupations**	**1,360**	**1,380**	**20**	**1.18**	**90**			
15-2031	Operations Research Analysts	670	670	0	0.00	40	Bachelor's degree	None	None
15-2041	Statisticians	310	330	10	3.50	30	Master's degree	None	None
15-2098	Data Scientists and Mathematical Science Occupations, All Other	320	320	10	1.57	20	Bachelor's degree	None	None
17-0000	**Architecture and Engineering Occupations**	**30,970**	**30,310**	**-650**	**-2.11**	**1,770**			
17-1000	**Architects, Surveyors, and Cartographers**	**1,960**	**1,880**	**-70**	**-3.78**	**100**			
17-1011	Architects, Except Landscape and Naval	980	940	-40	-4.00	40	Bachelor's degree	None	Internship/residency
17-1022	Surveyors	700	670	-20	-3.44	40	Bachelor's degree	None	Internship/residency
17-2000	Engineers	19,640	19,230	-410	-2.08	960			
17-2011	Aerospace Engineers	1,740	1,680	-60	-3.22	70	Bachelor's degree	None	None
17-2041	Chemical Engineers	330	320	-10	-3.07	10	Bachelor's degree	None	None
17-2051	Civil Engineers	2,270	2,210	-60	-2.69	120	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	320	330	0	1.25	20	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,770	1,750	-20	-1.02	100	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	2,040	2,090	50	2.30	150	Bachelor's degree	None	None
17-2081	Environmental Engineers	1,030	1,020	-10	-1.16	60	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	740	740	-10	-0.94	40	Bachelor's degree	None	None
17-2112	Industrial Engineers	1,970	1,970	0	-0.05	120	Bachelor's degree	None	None
17-2131	Materials Engineers	320	310	0	-1.26	10	Bachelor's degree	None	None
17-2141	Mechanical Engineers	2,480	2,480	0	-0.12	140	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	220	200	-20	-10.36	0	Bachelor's degree	None	None
17-2171	Petroleum Engineers	1,650	1,460	-190	-11.68	0	Bachelor's degree	None	None
17-2199	Engineers, All Other	2,650	2,580	-70	-2.75	120	Bachelor's degree	None	None
17-3000	**Drafters, Engineering Technicians, and Mapping Technicians**	**9,370**	**9,200**	**-170**	**-1.83**	**720**			
17-3011	Architectural and Civil Drafters	1,510	1,440	-80	-5.09	90	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	360	370	0	0.27	30	Associate's degree	None	None
17-3013	Mechanical Drafters	880	850	-30	-3.85	60	Associate's degree	None	None
17-3021	Aerospace Engineering and Operations Technicians	90	90	0	-2.30	10	Associate's degree	None	None
17-3022	Civil Engineering Technicians	690	670	-20	-2.75	50	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,510	1,520	0	0.20	130	Associate's degree	None	None
17-3024	Electro-Mechanical Technicians	90	80	-10	-6.74	0	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	410	410	0	-0.74	30	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	850	840	0	-0.47	70	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	390	390	-10	-1.28	30	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	970	920	-60	-5.86	80	High school diploma or equivalent	None	Moderate-term on-the-job training
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, A	1,580	1,620	30	2.08	150	Associate's degree	None	None
19-0000	**Life, Physical, and Social Science Occupations**	**15,030**	**14,970**	**-60**	**-0.39**	**1,200**			
19-1000	**Life Scientists**	**2,580**	**2,670**	**80**	**3.21**	**260**			
19-1011	Animal Scientists	70	70	0	-2.90	10	Bachelor's degree	None	None
19-1012	Food Scientists and Technologists	110	120	0	3.51	10	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	480	480	0	0.84	50	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	180	190	0	1.63	20	Doctoral or professional degree	None	None
19-1022	Microbiologists	190	200	10	5.88	20	Bachelor's degree	None	None
19-1023	Zoologists and Wildlife Biologists	100	100	0	-2.04	10	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	390	400	20	4.13	40	Bachelor's degree	None	None
19-1031	Conservation Scientists	340	350	10	2.67	30	Bachelor's degree	None	None

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Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
19-1032	Foresters	50	50	0	-2.13	0	Bachelor's degree	None	None
19-1041	Epidemiologists	80	90	0	1.19	10	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	560	600	40	7.36	60	Doctoral or professional degree	None	None
19-2000	**Physical Scientists**	**2,500**	**2,400**	**-100**	**-4.15**	**150**			
19-2021	Atmospheric and Space Scientists	410	410	0	0.00	30	Bachelor's degree	None	None
19-2031	Chemists	400	400	0	0.00	30	Bachelor's degree	None	None
19-2032	Materials Scientists	50	50	0	-2.17	0	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	540	540	0	-0.18	50	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	880	760	-110	-12.69	20	Bachelor's degree	None	None
19-2043	Hydrologists	50	50	0	2.13	10	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	140	140	10	4.41	10	Bachelor's degree	None	None
19-3000	**Social Scientists and Related Workers**	**2,850**	**2,880**	**40**	**1.37**	**210**			
19-3031	Clinical, Counseling, and School Psychologists	1,610	1,620	10	0.74	100	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	160	160	0	1.26	10	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	300	320	10	3.95	30	Master's degree	None	None
19-3091	Anthropologists and Archeologists	160	170	10	5.49	20	Master's degree	None	None
19-3093	Historians	60	60	0	3.33	10	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	180	190	0	1.65	20	Bachelor's degree	None	None
19-4000	**Life, Physical, and Social Science Technicians**	**5,480**	**5,400**	**-80**	**-1.44**	**500**			
19-4010	Agricultural and Food Science Technicians	910	940	30	3.42	120	Associate's degree	None	Moderate-term on-the-job training
19-4021	Biological Technicians	650	640	0	-0.46	60	Bachelor's degree	None	None
19-4031	Chemical Technicians	790	770	-20	-2.66	60	Associate's degree	None	Moderate-term on-the-job training
19-4042	Environmental Science and Protection Technicians, Including Health	330	330	0	-0.31	40	Associate's degree	None	None
19-4045	Geological and Hydrologic Technicians	980	900	-80	-8.20	30	Associate's degree	None	Moderate-term on-the-job training
19-4061	Social Science Research Assistants	170	170	0	0.61	20	Bachelor's degree	None	None
19-4071	Forest and Conservation Technicians	160	160	0	1.89	20	Associate's degree	None	None
19-4092	Forensic Science Technicians	220	220	0	0.00	20	Bachelor's degree	None	Moderate-term on-the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	1,290	1,280	-10	-0.70	140	Associate's degree	None	None
19-5000	**Occupational Health and Safety Specialists and Technicians**	**1,620**	**1,620**	**0**	**0.12**	**80**			
19-5011	Occupational Health and Safety Specialists	1,420	1,430	0	0.21	70	Bachelor's degree	None	None
19-5012	Occupational Health and Safety Technicians	200	200	0	-0.51	10	High school diploma or equivalent	None	Moderate-term on-the-job training
21-0000	**Community and Social Service Occupations**	**28,920**	**29,340**	**420**	**1.46**	**2,790**			
21-1000	**Counselors, Social Workers, and Other Community and Social Service Speci**	**27,770**	**28,190**	**420**	**1.50**	**2,670**			
21-1012	Educational, Guidance, School, and Vocational Counselors	4,220	4,280	60	1.30	400	Master's degree	None	None
21-1013	Marriage and Family Therapists	680	700	30	3.84	70	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	2,230	2,260	30	1.21	210	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	4,370	4,570	200	4.55	490	Bachelor's degree	None	None
21-1019	Counselors, All Other	140	150	10	4.26	20	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	6,700	6,650	-60	-0.85	540	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	2,320	2,380	70	2.81	230	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	1,560	1,600	40	2.70	160	Master's degree	None	Internship/residency
21-1029	Social Workers, All Other	570	570	0	0.00	50	Bachelor's degree	None	None
21-1091	Health Educators	1,040	1,060	20	2.32	110	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	1,080	1,050	-30	-2.32	70	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	1,410	1,430	20	1.64	160	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	1,250	1,280	30	2.31	130	High school diploma or equivalent	None	Short-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	210	210	0	0.95	20	Bachelor's degree	None	None
21-2000	**Religious Workers**	**1,150**	**1,150**	**10**	**0.52**	**120**			
21-2011	Clergy	570	580	10	1.76	60	Bachelor's degree	None	Moderate-term on-the-job training
21-2021	Directors, Religious Activities and Education	190	190	0	-0.53	20	Bachelor's degree	Less than 5 years	None
21-2099	Religious Workers, All Other	390	390	0	-0.77	50	Bachelor's degree	None	None
23-0000	**Legal Occupations**	**13,890**	**13,980**	**90**	**0.63**	**860**			
23-1000	**Lawyers, Judges, and Related Workers**	**9,250**	**9,330**	**80**	**0.85**	**450**			
23-1011	Lawyers	7,920	8,030	100	1.29	400	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	50	50	0	0.00	0	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	150	150	0	-1.33	10	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1022	Arbitrators, Mediators, and Conciliators	200	200	0	0.51	10	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	940	910	-20	-2.35	30	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	**Legal Support Workers**	**4,640**	**4,650**	**10**	**0.17**	**410**			
23-2011	Paralegals and Legal Assistants	2,480	2,570	90	3.54	290	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	1,980	1,900	-80	-4.14	110	High school diploma or equivalent	None	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	170	170	0	1.17	20	Associate's degree	None	None
25-0000	**Education, Training, and Library Occupations**	**108,290**	**109,890**	**1,610**	**1.48**	**9,500**			
25-1000	**Postsecondary Teachers**	**18,370**	**18,170**	**-210**	**-1.13**	**1,250**			
25-1011	Business Teachers, Postsecondary	1,280	1,260	-10	-0.94	90	Doctoral or professional degree	None	None

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25-1021	Computer Science Teachers, Postsecondary	410	410	-10	-1.93	30	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	700	690	-20	-2.27	40	Doctoral or professional degree	None	None
25-1031	Architecture Teachers, Postsecondary	160	160	0	-2.52	10	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	650	640	-10	-1.23	40	Doctoral or professional degree	None	None
25-1041	Agricultural Sciences Teachers, Postsecondary	140	140	0	-2.10	10	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	740	730	-10	-1.22	50	Doctoral or professional degree	None	None
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	110	110	0	-2.68	10	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	260	250	0	-1.56	20	Doctoral or professional degree	None	None
25-1053	Environmental Science Teachers, Postsecondary	90	90	0	-3.26	10	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	130	120	0	-2.36	10	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	170	160	0	-2.38	10	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	70	70	0	-2.78	0	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	190	180	0	-2.15	10	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	530	520	-10	-1.32	40	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	170	170	0	-1.75	10	Doctoral or professional degree	None	None
25-1069	Social Sciences Teachers, Postsecondary, All Other	320	310	-10	-2.19	20	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	1,550	1,570	20	1.16	130	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	640	660	10	1.71	50	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	760	740	-20	-2.37	50	Doctoral or professional degree	Less than 5 years	None
25-1082	Library Science Teachers, Postsecondary	150	140	0	-2.70	10	Doctoral or professional degree	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	90	90	0	-1.09	10	Doctoral or professional degree	None	None
25-1112	Law Teachers, Postsecondary	260	250	-10	-2.33	20	Doctoral or professional degree	Less than 5 years	None
25-1113	Social Work Teachers, Postsecondary	120	120	0	-2.48	10	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,160	1,130	-30	-2.42	70	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	430	420	-10	-2.30	30	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	850	830	-20	-2.13	50	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	200	200	0	-1.96	10	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	280	270	-10	-2.55	20	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	410	400	-10	-2.20	30	Doctoral or professional degree	None	None
25-1192	Home Economics Teachers, Postsecondary	90	90	0	-3.33	10	Master's degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	200	190	0	-2.02	10	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	2,710	2,750	40	1.44	220	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	2,200	2,140	-60	-2.59	130	Doctoral or professional degree	None	None
25-2000	**Preschool, Primary, Secondary, and Special Education School Teachers**	**55,650**	**56,880**	**1,230**	**2.21**	**4,570**			
25-2011	Preschool Teachers, Except Special Education	8,990	8,990	0	-0.02	810	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	2,090	2,150	60	2.68	220	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	18,250	18,740	480	2.64	1,470	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	8,440	8,670	230	2.67	680	Bachelor's degree	None	None
25-2023	Career/Technical Education Teachers, Middle School	190	190	10	2.65	10	Bachelor's degree	Less than 5 years	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	11,860	12,180	320	2.71	920	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	770	790	20	2.33	60	Bachelor's degree	Less than 5 years	None
25-2051	Special Education Teachers, Preschool	110	120	0	2.63	10	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	2,300	2,360	60	2.43	190	Bachelor's degree	None	None
25-2057	Special Education Teachers, Middle School	1,100	1,120	30	2.47	90	Bachelor's degree	None	None
25-2058	Special Education Teachers, Secondary School	1,420	1,460	40	2.60	120	Bachelor's degree	None	None
25-2059	Special Education Teachers, All Other	110	120	0	2.65	10	Bachelor's degree	None	None
25-3000	**Other Teachers and Instructors**	**13,280**	**13,540**	**260**	**1.97**	**1,540**			
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	730	720	-10	-1.09	70	Bachelor's degree	None	None
25-3021	Self-Enrichment Education Teachers	2,680	2,740	70	2.50	320	High school diploma or equivalent	Less than 5 years	None
25-3031	Substitute Teachers, Short-Term	6,830	6,990	150	2.24	800	Bachelor's degree	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	3,040	3,090	50	1.65	350	Bachelor's degree	None	None
25-4000	**Librarians, Curators, and Archivists**	**3,430**	**3,490**	**50**	**1.49**	**390**			
25-4011	Archivists	140	140	0	2.22	20	Master's degree	None	None
25-4012	Curators	210	210	0	1.91	20	Master's degree	None	None
25-4013	Museum Technicians and Conservators	180	190	10	4.95	20	Bachelor's degree	None	None
25-4022	Librarians and Media Collections Specialists	1,910	1,940	30	1.78	180	Bachelor's degree	None	None
25-4031	Library Technicians	1,000	1,000	0	0.10	140	Postsecondary non-degree award	None	None
25-9000	**Other Education, Training, and Library Occupations**	**17,550**	**17,820**	**270**	**1.53**	**1,750**			
25-9021	Farm and Home Management Advisors	250	250	0	0.00	20	Master's degree	None	None
25-9031	Instructional Coordinators	1,590	1,610	10	0.88	140	Master's degree	5 years or more	None
25-9044	Teaching Assistants, Postsecondary	2,080	2,020	-60	-2.69	120	Bachelor's degree	None	None
25-9045	Teaching Assistants, Except Postsecondary	13,260	13,570	310	2.32	1,430	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	370	380	0	0.81	30	Bachelor's degree	None	None
27-0000	**Arts, Design, Entertainment, Sports, and Media Occupations**	**22,750**	**22,690**	**-70**	**-0.29**	**2,170**			
27-1000	**Art and Design Workers**	**6,680**	**6,610**	**-70**	**-1.11**	**540**			

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Occupation		Employment		Employment Change		Annual Total	Education and Training Classification		
Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
27-1011	Art Directors	450	440	-20	-3.74	40	Bachelor's degree	5 years or more	None
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	60	60	0	-1.75	0	Bachelor's degree	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	250	250	0	-1.20	20	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	230	220	0	-1.32	20	Bachelor's degree	None	None
27-1023	Floral Designers	690	690	0	0.44	60	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	2,180	2,130	-50	-2.29	160	Bachelor's degree	None	None
27-1025	Interior Designers	640	630	-10	-1.40	50	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	1,840	1,850	10	0.49	160	High school diploma or equivalent	None	Short-term on-the-job training
27-1027	Set and Exhibit Designers	60	60	0	-4.92	0	Bachelor's degree	None	None
27-2000	**Entertainers and Performers, Sports and Related Workers**	**4,950**	**5,020**	**80**	**1.52**	**660**			
27-2011	Actors	70	70	0	1.49	10	Some college, no degree	None	Long-term on-the-job training
27-2012	Producers and Directors	700	700	0	0.29	60	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	280	300	10	4.23	50	No formal educational credential	None	Long-term on-the-job training
27-2022	Coaches and Scouts	3,030	3,080	50	1.62	440	Bachelor's degree	None	None
27-2023	Umpires, Referees, and Other Sports Officials	170	180	0	1.72	30	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2041	Music Directors and Composers	180	190	0	1.09	20	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	310	310	0	1.31	40	No formal educational credential	None	Long-term on-the-job training
27-3000	**Media and Communication Workers**	**8,280**	**8,190**	**-90**	**-1.11**	**700**			
27-3011	Radio and Television Announcers	490	490	-10	-1.22	50	Bachelor's degree	None	None
27-3023	News Analysts, Reporters, and Journalists	600	570	-30	-5.33	40	Bachelor's degree	None	None
27-3031	Public Relations Specialists	3,080	3,110	30	0.84	290	Bachelor's degree	None	None
27-3041	Editors	1,070	1,000	-70	-6.29	60	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	840	840	0	0.12	70	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,370	1,350	-30	-1.82	110	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	690	700	20	2.47	70	Bachelor's degree	None	None
27-4000	**Media and Communication Equipment Workers**	**2,840**	**2,870**	**30**	**0.88**	**270**			
27-4011	Audio and Video Equipment Technicians	690	690	10	0.87	70	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	260	260	0	-0.77	30	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	120	130	0	2.44	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,100	1,100	0	0.18	100	High school diploma or equivalent	None	Moderate-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	430	440	10	2.10	40	Bachelor's degree	None	None
27-4032	Film and Video Editors	180	180	10	3.37	20	Bachelor's degree	None	None
27-4098	Lighting Technicians and Media and Communication Equipment Workers, All Ot	70	70	0	1.49	10	High school diploma or equivalent	None	Short-term on-the-job training
29-0000	**Healthcare Practitioners and Technical Occupations**	**116,900**	**119,770**	**2,870**	**2.46**	**7,580**			
29-1000	**Health Diagnosing and Treating Practitioners**	**71,980**	**73,800**	**1,830**	**2.54**	**4,130**			
29-1011	Chiropractors	630	640	10	1.43	20	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,330	1,350	20	1.28	50	Doctoral or professional degree	None	None
29-1023	Orthodontists	160	170	0	1.23	10	Doctoral or professional degree	None	Internship/residency
29-1029	Dentists, All Other Specialists	80	80	0	0.00	0	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	800	820	20	2.50	60	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	840	850	10	1.43	30	Doctoral or professional degree	None	None
29-1051	Pharmacists	3,990	4,000	10	0.28	160	Doctoral or professional degree	None	None
29-1071	Physician Assistants	1,640	1,740	100	6.10	140	Master's degree	None	None
29-1081	Podiatrists	70	70	0	0.00	0	Doctoral or professional degree	None	Internship/residency
29-1122	Occupational Therapists	1,020	1,060	40	3.81	70	Master's degree	None	None
29-1123	Physical Therapists	2,820	2,930	110	3.83	160	Doctoral or professional degree	None	None
29-1125	Recreational Therapists	240	240	0	0.42	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	2,040	2,140	100	4.75	140	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,880	1,990	110	5.91	160	Master's degree	None	Internship/residency
29-1128	Exercise Physiologists	290	300	10	2.08	20	Bachelor's degree	None	None
29-1129	Therapists, All Other	80	80	0	0.00	0	Bachelor's degree	None	None
29-1131	Veterinarians	1,380	1,480	100	7.49	100	Doctoral or professional degree	None	None
29-1141	Registered Nurses	38,300	39,150	850	2.21	2,280	Bachelor's degree	None	None
29-1151	Nurse Anesthetists	390	400	20	3.90	30	Master's degree	None	None
29-1171	Nurse Practitioners	1,980	2,150	160	8.11	180	Master's degree	None	None
29-1181	Audiologists	110	110	0	3.74	10	Doctoral or professional degree	None	None
29-1211	Anesthesiologists	430	430	0	0.94	10	Doctoral or professional degree	None	Internship/residency
29-1215	Family Medicine Physicians	2,770	2,810	50	1.66	100	Doctoral or professional degree	None	Internship/residency
29-1216	General Internal Medicine Physicians	450	450	10	1.12	20	Doctoral or professional degree	None	Internship/residency
29-1218	Obstetricians and Gynecologists	120	120	0	0.81	0	Doctoral or professional degree	None	Internship/residency
29-1221	Pediatricians, General	180	190	10	4.44	10	Doctoral or professional degree	None	Internship/residency
29-1223	Psychiatrists	260	260	0	1.56	10	Doctoral or professional degree	None	Internship/residency
29-1248	Surgeons, Except Ophthalmologists	360	360	0	0.28	10	Doctoral or professional degree	None	Internship/residency
29-1292	Dental Hygienists	2,710	2,770	60	2.03	190	Associate's degree	None	None
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	200	200	0	0.99	10	Master's degree	None	None

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Occupation		Employment		Employment Change		Annual Total	Education and Training Classification		
Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
29-2000	**Health Technologists and Technicians**	**43,320**	**44,330**	**1,010**	**2.34**	**3,350**			
29-2010	Clinical Laboratory Technologists and Technicians	4,640	4,790	150	3.19	330	Bachelor's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	740	760	10	1.88	40	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	1,090	1,130	40	3.76	70	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	290	300	10	2.08	20	Associate's degree	None	None
29-2034	Radiologic Technologists	3,230	3,300	70	2.17	190	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	560	570	10	2.15	30	Associate's degree	Less than 5 years	None
29-2040	Emergency Medical Technicians and Paramedics	3,600	3,700	100	2.64	260	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	520	520	0	0.58	40	Associate's degree	None	None
29-2052	Pharmacy Technicians	5,070	5,150	80	1.58	420	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	2,190	2,240	50	2.15	190	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	930	1,000	80	8.11	110	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	500	510	20	3.63	50	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	13,610	13,870	250	1.87	1,070	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	770	780	10	1.69	60	High school diploma or equivalent	None	Long-term on-the-job training
29-2092	Hearing Aid Specialists	100	100	0	3.16	10	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists a	4,270	4,370	100	2.22	350	Postsecondary non-degree award	None	None
29-9000	**Other Healthcare Practitioners and Technical Occupations**	**1,610**	**1,640**	**30**	**1.93**	**100**			
29-9091	Athletic Trainers	300	310	10	2.33	20	Bachelor's degree	None	None
31-0000	**Healthcare Support Occupations**	**65,990**	**68,080**	**2,090**	**3.17**	**8,160**			
31-1000	**Nursing, Psychiatric, and Home Health Aides**	**42,060**	**43,290**	**1,220**	**2.91**	**5,190**			
31-1120	Home Health and Personal Care Aides	20,540	21,550	1,010	4.91	2,870	High school diploma or equivalent	None	Short-term on-the-job training
31-1131	Nursing Assistants	20,430	20,620	190	0.92	2,190	Postsecondary non-degree award	None	None
31-2000	**Occupational Therapy and Physical Therapist Assistants and Aides**	**3,340**	**3,550**	**200**	**6.10**	**450**			
31-2011	Occupational Therapy Assistants	860	920	60	7.32	120	Associate's degree	None	None
31-2012	Occupational Therapy Aides	80	80	0	1.23	10	High school diploma or equivalent	None	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,680	1,790	110	6.36	230	Associate's degree	None	None
31-2022	Physical Therapist Aides	720	750	30	4.59	90	High school diploma or equivalent	None	Short-term on-the-job training
31-9000	**Other Healthcare Support Occupations**	**20,580**	**21,250**	**670**	**3.24**	**2,520**			
31-9091	Dental Assistants	4,160	4,250	90	2.12	460	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	9,410	9,770	360	3.86	1,130	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	990	1,000	10	1.41	110	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	590	570	-20	-4.05	60	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	790	760	-30	-3.31	70	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,760	1,900	140	8.14	330	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1,720	1,800	80	4.48	200	Postsecondary non-degree award	None	None
33-0000	**Protective Service Occupations**	**38,950**	**39,360**	**410**	**1.05**	**3,950**			
33-1000	**Supervisors of Protective Service Workers**	**5,380**	**5,490**	**100**	**1.91**	**410**			
33-1011	First-Line Supervisors of Correctional Officers	480	460	-20	-3.99	20	High school diploma or equivalent	Less than 5 years	None
33-1012	First-Line Supervisors of Police and Detectives	2,650	2,730	80	3.17	200	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	1,140	1,180	40	3.15	80	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	1,120	1,120	0	0.18	100	High school diploma or equivalent	Less than 5 years	None
33-2000	**Fire Fighting and Prevention Workers**	**4,170**	**4,280**	**110**	**2.74**	**330**			
33-2011	Firefighters	3,960	4,070	110	2.80	310	Postsecondary non-degree award	None	Long-term on-the-job training
33-3000	**Law Enforcement Workers**	**13,740**	**13,820**	**80**	**0.61**	**1,040**			
33-3011	Bailiffs	70	70	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	4,410	4,320	-90	-1.93	330	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	970	960	0	-0.31	60	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3031	Fish and Game Wardens	220	210	-10	-3.24	10	Bachelor's degree	None	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	8,020	8,210	180	2.27	630	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9000	**Other Protective Service Workers**	**15,670**	**15,780**	**110**	**0.70**	**2,170**			
33-9021	Private Detectives and Investigators	270	280	10	2.56	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigators	1,570	1,590	20	1.28	200	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9032	Security Guards	10,960	10,990	30	0.27	1,320	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	280	280	10	2.17	50	No formal educational credential	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,150	1,180	20	2.00	290	No formal educational credential	None	Short-term on-the-job training
33-9098	School Bus Monitors and Protective Service Workers, All Other	880	890	10	1.14	220	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	**Food Preparation and Serving Related Occupations**	**161,590**	**163,950**	**2,360**	**1.46**	**26,850**			
35-1000	**Supervisors of Food Preparation and Serving Workers**	**16,060**	**16,290**	**230**	**1.43**	**2,310**			
35-1011	Chefs and Head Cooks	1,030	1,050	10	1.26	130	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	15,030	15,240	220	1.44	2,180	High school diploma or equivalent	Less than 5 years	None
35-2000	**Cooks and Food Preparation Workers**	**55,320**	**55,910**	**590**	**1.06**	**7,750**			
35-2011	Cooks, Fast Food	12,790	12,510	-280	-2.18	1,500	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	10,850	10,930	80	0.77	1,450	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	17,900	18,740	840	4.70	2,790	No formal educational credential	Less than 5 years	Moderate-term on-the-job training

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2020 - 2022

Occupation		Employment		Employment Change		Annual Total	Education and Training Classification		
Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
35-2015	Cooks, Short Order	4,940	4,900	-30	-0.69	620	No formal educational credential	None	Short-term on-the-job training
35-2021	Food Preparation Workers	8,810	8,790	-30	-0.28	1,390	No formal educational credential	None	Short-term on-the-job training
35-3000	**Food and Beverage Serving Workers**	**76,950**	**78,320**	**1,370**	**1.78**	**14,380**			
35-3011	Bartenders	7,480	7,580	90	1.24	1,220	No formal educational credential	None	Short-term on-the-job training
35-3023	Fast Food and Counter Workers	39,120	40,110	990	2.52	7,720	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	28,830	29,110	290	0.99	5,210	No formal educational credential	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,520	1,520	10	0.46	230	No formal educational credential	None	Short-term on-the-job training
35-9000	**Other Food Preparation and Serving Related Workers**	**13,260**	**13,430**	**170**	**1.29**	**2,420**			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	4,130	4,190	60	1.50	690	No formal educational credential	None	Short-term on-the-job training
35-9021	Dishwashers	4,120	4,140	20	0.41	620	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	4,850	4,940	90	1.88	1,080	No formal educational credential	None	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	160	160	0	0.63	30	No formal educational credential	None	Short-term on-the-job training
37-0000	**Building and Grounds Cleaning and Maintenance Occupations**	**51,140**	**51,750**	**620**	**1.21**	**6,440**			
37-1000	**Supervisors of Building and Grounds Cleaning and Maintenance Workers**	**4,560**	**4,660**	**90**	**2.04**	**500**			
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,530	2,570	40	1.66	280	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Wo	2,040	2,090	50	2.51	220	High school diploma or equivalent	Less than 5 years	None
37-2000	**Building Cleaning and Pest Control Workers**	**34,730**	**34,970**	**240**	**0.70**	**4,390**			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,430	19,730	300	1.53	2,530	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	14,180	14,100	-80	-0.54	1,710	No formal educational credential	None	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	150	150	0	0.68	20	No formal educational credential	None	Short-term on-the-job training
37-2021	Pest Control Workers	970	1,000	20	2.26	130	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3000	**Grounds Maintenance Workers**	**11,840**	**12,120**	**280**	**2.36**	**1,550**			
37-3011	Landscaping and Groundskeeping Workers	10,210	10,450	240	2.36	1,340	No formal educational credential	None	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	340	350	10	2.06	40	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,150	1,180	30	2.70	150	High school diploma or equivalent	None	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	150	150	0	0.66	20	No formal educational credential	None	Short-term on-the-job training
39-0000	**Personal Care and Service Occupations**	**46,490**	**47,150**	**670**	**1.43**	**6,810**			
39-1000	**Supervisors of Personal Care and Service Workers**	**4,740**	**4,840**	**100**	**2.20**	**580**			
39-1013	First-Line Supervisors of Gambling Services Workers	2,060	2,120	60	2.67	320	High school diploma or equivalent	Less than 5 years	None
39-1098	First-Line Supervisors of Personal Service & Entertainment and Recreation Wo	2,680	2,720	50	1.83	260	High school diploma or equivalent	Less than 5 years	None
39-2000	**Animal Care and Service Workers**	**8,020**	**8,380**	**360**	**4.46**	**1,280**			
39-2011	Animal Trainers	4,900	5,070	170	3.47	730	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	3,120	3,310	190	6.02	550	High school diploma or equivalent	None	Short-term on-the-job training
39-3000	**Entertainment Attendants and Related Workers**	**6,060**	**6,150**	**80**	**1.39**	**1,160**			
39-3011	Gaming Dealers	2,230	2,240	10	0.45	330	High school diploma or equivalent	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,360	1,380	20	1.40	310	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,620	1,670	50	3.08	370	No formal educational credential	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	240	240	0	1.24	50	High school diploma or equivalent	None	Short-term on-the-job training
39-4000	**Funeral Service Workers**	**990**	**970**	**-20**	**-1.73**	**130**			
39-4011	Embalmers	130	120	0	-2.40	20	Associate's degree	None	Long-term on-the-job training
39-4021	Funeral Attendants	550	540	-10	-2.00	80	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	310	310	0	-0.97	30	Associate's degree	None	Long-term on-the-job training
39-5000	**Personal Appearance Workers**	**6,670**	**6,650**	**-20**	**-0.33**	**720**			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	5,750	5,710	-40	-0.76	610	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	360	380	10	3.31	40	Postsecondary non-degree award	None	None
39-6000	Baggage Porters, Bellhops, and Concierges	760	780	10	1.71	110			
39-6011	Baggage Porters and Bellhops	330	340	10	1.82	50	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	430	440	10	1.62	60	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7000	**Tour and Travel Guides**	**390**	**410**	**20**	**5.08**	**70**			
39-7010	Tour and Travel Guides	390	410	20	5.08	70	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9000	**Other Personal Care and Service Workers**	**18,860**	**18,990**	**130**	**0.67**	**2,760**			
39-9011	Childcare Workers	9,890	9,870	-20	-0.23	1,340	High school diploma or equivalent	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	4,710	4,830	120	2.48	780	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	2,720	2,740	30	1.03	430	High school diploma or equivalent	None	Short-term on-the-job training
41-0000	**Sales and Related Occupations**	**177,740**	**177,040**	**-700**	**-0.39**	**21,580**			
41-1000	**Supervisors of Sales Workers**	**26,430**	**26,170**	**-260**	**-1.00**	**2,330**			
41-1011	First-Line Supervisors of Retail Sales Workers	20,620	20,480	-140	-0.69	1,920	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	5,810	5,690	-120	-2.07	410	High school diploma or equivalent	Less than 5 years	None
41-2000	**Retail Sales Workers**	**100,760**	**100,540**	**-220**	**-0.22**	**14,600**			
41-2011	Cashiers	42,790	42,350	-440	-1.04	6,960	No formal educational credential	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	1,790	1,800	20	0.84	310	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	3,020	3,040	20	0.60	340	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	3,340	3,390	50	1.59	390	No formal educational credential	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	49,820	49,950	130	0.27	6,600	No formal educational credential	None	Short-term on-the-job training
41-3000	**Sales Representatives, Services**	**18,770**	**18,730**	**-40**	**-0.22**	**1,810**			

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Occupation		Employment		Employment Change		Annual Total	Education and Training Classification		
Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
41-3011	Advertising Sales Agents	970	900	-70	-7.14	70	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5,970	5,960	-10	-0.17	500	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,720	1,730	10	0.58	150	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	320	320	0	-0.32	40	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Se	9,790	9,820	30	0.30	1,060	High school diploma or equivalent	None	Moderate-term on-the-job training
41-4000	**Sales Representatives, Wholesale and Manufacturing**	**16,880**	**16,990**	**120**	**0.68**	**1,580**			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific	7,070	7,110	40	0.55	660	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and S	9,800	9,880	80	0.78	920	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9000	**Other Sales and Related Workers**	**14,910**	**14,620**	**-280**	**-1.91**	**1,270**			
41-9011	Demonstrators and Product Promoters	310	310	0	-0.32	50	No formal educational credential	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,460	1,470	10	0.62	120	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	9,110	9,040	-70	-0.80	720	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9031	Sales Engineers	360	360	0	0.00	30	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	1,910	1,690	-220	-11.44	140	No formal educational credential	None	Short-term on-the-job training
43-0000	**Office and Administrative Support Occupations**	**248,590**	**245,210**	**-3,380**	**-1.36**	**23,910**			
43-1000	**Supervisors of Office and Administrative Support Workers**	**21,940**	**21,680**	**-260**	**-1.20**	**1,910**			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	21,940	21,680	-260	-1.20	1,910	High school diploma or equivalent	Less than 5 years	None
43-2000	**Communications Equipment Operators**	**850**	**800**	**-60**	**-6.44**	**60**			
43-2011	Switchboard Operators, Including Answering Service	790	740	-50	-6.57	50	High school diploma or equivalent	None	Short-term on-the-job training
43-3000	**Financial Clerks**	**46,980**	**46,310**	**-670**	**-1.42**	**4,490**			
43-3011	Bill and Account Collectors	3,900	3,790	-110	-2.85	350	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	6,370	6,400	30	0.44	630	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	24,520	24,170	-350	-1.42	2,400	Some college, no degree	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	1,300	1,310	0	0.23	150	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,590	2,570	-20	-0.85	240	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,210	1,200	-20	-1.40	100	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	7,010	6,800	-200	-2.90	620	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	80	80	0	2.53	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4000	**Information and Record Clerks**	**65,840**	**65,170**	**-680**	**-1.03**	**7,170**			
43-4011	Brokerage Clerks	190	190	0	0.52	20	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	3,570	3,560	-10	-0.34	310	High school diploma or equivalent	None	Long-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	410	410	0	-0.72	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4051	Customer Service Representatives	31,640	31,020	-620	-1.94	3,420	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	930	930	-10	-0.64	80	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,700	1,640	-50	-3.12	160	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,910	2,820	-90	-3.23	390	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	2,670	2,690	20	0.71	320	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,690	1,700	10	0.53	240	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	4,200	4,290	90	2.14	420	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	1,600	1,560	-40	-2.75	130	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1,460	1,420	-40	-2.47	130	Some college, no degree	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,110	1,100	-20	-1.35	100	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	9,010	9,060	50	0.52	1,110	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	2,000	2,020	30	1.35	220	High school diploma or equivalent	None	Short-term on-the-job training
43-5000	**Material Recording, Scheduling, Dispatching, and Distributing Workers**	**27,930**	**27,750**	**-180**	**-0.63**	**2,290**			
43-5011	Cargo and Freight Agents	540	540	0	0.56	50	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	1,660	1,660	0	0.00	150	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,870	1,920	50	2.79	190	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,230	2,220	-10	-0.22	190	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	450	450	0	0.00	40	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	1,000	980	-10	-1.40	70	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	4,040	3,980	-60	-1.56	240	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	750	730	-20	-2.68	50	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	6,760	6,770	20	0.24	640	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	8,030	7,880	-150	-1.89	630	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	620	620	10	0.98	60	High school diploma or equivalent	None	Short-term on-the-job training
43-6000	**Secretaries and Administrative Assistants**	**50,100**	**49,220**	**-890**	**-1.77**	**4,620**			
43-6011	Executive Secretaries and Executive Administrative Assistants	9,500	8,980	-520	-5.52	680	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	1,330	1,300	-30	-2.40	120	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	11,490	11,790	310	2.67	1,340	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executiv	27,780	27,150	-640	-2.30	2,480	High school diploma or equivalent	None	Short-term on-the-job training
43-9000	**Other Office and Administrative Support Workers**	**34,940**	**34,290**	**-650**	**-1.85**	**3,370**			
43-9021	Data Entry Keyers	2,810	2,660	-140	-5.13	200	High school diploma or equivalent	None	Short-term on-the-job training
43-9022	Word Processors and Typists	80	70	-10	-9.88	0	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	200	180	-10	-6.12	10	Associate's degree	None	Short-term on-the-job training

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43-9041	Insurance Claims and Policy Processing Clerks	2,100	2,060	-40	-1.90	170	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,210	1,150	-50	-4.23	100	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	25,800	25,450	-340	-1.32	2,630	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	560	550	-20	-3.37	50	High school diploma or equivalent	None	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	90	90	-10	-7.45	10	Bachelor's degree	None	None
43-9111	Statistical Assistants	90	90	0	2.20	10	Bachelor's degree	None	None
43-9199	Office and Administrative Support Workers, All Other	2,000	1,980	-30	-1.40	190	High school diploma or equivalent	None	Short-term on-the-job training
45-0000	**Farming, Fishing, and Forestry Occupations**	**9,590**	**9,760**	**170**	**1.79**	**1,470**			
45-2000	**Agricultural Workers**	**8,350**	**8,530**	**170**	**2.05**	**1,300**			
45-2011	Agricultural Inspectors	560	570	20	2.88	90	Bachelor's degree	None	Moderate-term on-the-job training
45-2021	Animal Breeders	660	680	20	3.66	110	High school diploma or equivalent	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	1,320	1,370	50	3.48	220	No formal educational credential	None	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,460	1,470	10	0.82	220	No formal educational credential	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	4,100	4,170	70	1.58	630	No formal educational credential	None	Short-term on-the-job training
45-4000	**Forest, Conservation, and Logging Workers**	**640**	**630**	**0**	**-0.63**	**90**			
45-4011	Forest and Conservation Workers	60	60	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	440	440	0	-0.23	60	High school diploma or equivalent	None	Moderate-term on-the-job training
47-0000	**Construction and Extraction Occupations**	**95,940**	**96,440**	**490**	**0.51**	**9,580**			
47-1000	**Supervisors of Construction and Extraction Workers**	**11,480**	**11,460**	**-20**	**-0.15**	**1,010**			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	11,480	11,460	-20	-0.15	1,010	High school diploma or equivalent	5 years or more	None
47-2000	**Construction Trades Workers**	**58,730**	**59,440**	**720**	**1.22**	**5,850**			
47-2011	Boilermakers	100	100	0	-1.00	10	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	500	500	0	0.00	40	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	250	250	0	1.61	20	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	7,010	7,010	0	0.06	620	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	250	240	-10	-2.04	20	No formal educational credential	None	Short-term on-the-job training
47-2044	Tile and Marble Setters	400	410	10	1.25	30	No formal educational credential	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2,680	2,690	10	0.48	240	No formal educational credential	None	Moderate-term on-the-job training
47-2061	Construction Laborers	11,960	12,070	110	0.88	1,170	No formal educational credential	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,160	1,170	10	1.12	130	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	6,930	6,980	50	0.69	710	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	740	750	10	1.34	70	No formal educational credential	None	Moderate-term on-the-job training
47-2111	Electricians	7,360	7,610	250	3.34	860	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	410	420	10	3.16	50	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	570	590	20	2.63	60	No formal educational credential	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	310	320	10	3.25	30	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	3,350	3,370	20	0.63	300	No formal educational credential	None	Moderate-term on-the-job training
47-2142	Paperhangers	180	170	-10	-7.61	10	No formal educational credential	None	Long-term on-the-job training
47-2151	Pipelayers	1,030	1,040	10	0.88	100	No formal educational credential	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	6,890	7,020	130	1.84	730	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	1,030	1,060	30	2.43	100	No formal educational credential	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,660	3,700	50	1.23	350	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	1,130	1,140	10	1.15	120	High school diploma or equivalent	None	Apprenticeship
47-3000	**Helpers, Construction Trades**	**4,010**	**4,100**	**90**	**2.17**	**510**			
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	280	280	0	0.72	30	No formal educational credential	None	Short-term on-the-job training
47-3013	Helpers--Electricians	1,690	1,730	40	2.31	220	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,000	1,020	30	2.51	130	High school diploma or equivalent	None	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	270	280	10	1.82	30	No formal educational credential	None	Short-term on-the-job training
47-4000	**Other Construction and Related Workers**	**9,160**	**9,300**	**140**	**1.57**	**1,020**			
47-4011	Construction and Building Inspectors	2,410	2,450	40	1.53	280	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4021	Elevator Installers and Repairers	240	250	10	3.73	30	High school diploma or equivalent	None	Apprenticeship
47-4031	Fence Erectors	440	450	10	2.06	50	No formal educational credential	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	390	380	-10	-2.56	40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3,380	3,480	100	3.02	390	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	270	280	10	2.23	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	870	900	20	2.64	100	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4090	Miscellaneous Construction and Related Workers	1,160	1,130	-30	-2.76	110	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5000	**Extraction Workers**	**12,570**	**12,130**	**-440**	**-3.46**	**1,200**			
47-5011	Derrick Operators, Oil and Gas	690	680	-20	-2.46	70	No formal educational credential	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	2,390	2,260	-140	-5.64	210	No formal educational credential	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	2,490	2,410	-80	-3.33	250	No formal educational credential	None	Moderate-term on-the-job training
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	520	530	10	0.96	60	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
47-5041	Continuous Mining Machine Operators	170	170	0	-1.20	20	No formal educational credential	None	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	320	330	0	1.24	40	No formal educational credential	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	4,450	4,250	-200	-4.48	380	No formal educational credential	None	Moderate-term on-the-job training

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Occupation		Employment		Employment Change		Annual Total	Education and Training Classification		
Code	Title	2020	2022	Number	Percent	Openings[1]	Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
47-5081	Helpers--Extraction Workers	420	410	-10	-2.63	40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5097	Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handlin	940	950	10	0.64	110	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5098	Underground Mining Machine Operators and Extraction Workers, All Other	170	170	0	-1.73	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-0000	**Installation, Maintenance, and Repair Occupations**	**81,430**	**82,200**	**760**	**0.94**	**7,410**			
49-1000	**Supervisors of Installation, Maintenance, and Repair Workers**	**7,460**	**7,520**	**60**	**0.79**	**630**			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	7,460	7,520	60	0.79	630	High school diploma or equivalent	Less than 5 years	None
49-2000	**Electrical and Electronic Equipment Mechanics, Installers, and Repairers**	**7,900**	**8,010**	**120**	**1.48**	**780**			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,390	1,380	-10	-1.01	130	Some college, no degree	None	Short-term on-the-job training
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	350	370	20	4.56	50	Associate's degree	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	2,020	2,100	80	3.82	250	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	560	570	10	0.89	40	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	350	350	0	0.28	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,230	1,230	0	0.16	90	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	340	350	0	1.17	30	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	80	80	-10	-6.17	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	150	150	0	0.00	10	Postsecondary non-degree award	None	Short-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	1,390	1,420	30	2.23	160	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3000	**Vehicle and Mobile Equipment Mechanics, Installers, and Repairers**	**24,560**	**24,540**	**-20**	**-0.08**	**2,090**			
49-3021	Automotive Body and Related Repairers	1,620	1,600	-20	-1.30	120	High school diploma or equivalent	None	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	200	190	-10	-2.55	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	8,260	8,170	-90	-1.07	670	Postsecondary non-degree award	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,900	3,910	10	0.18	320	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	510	530	10	2.14	50	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,230	2,250	20	1.03	210	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	220	220	0	0.90	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	190	190	0	1.07	20	Postsecondary non-degree award	None	Short-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	440	440	10	1.14	40	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	430	440	10	1.86	50	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,650	1,680	30	1.51	180	High school diploma or equivalent	None	Short-term on-the-job training
49-9000	**Other Installation, Maintenance, and Repair Occupations**	**41,520**	**42,130**	**610**	**1.46**	**3,910**			
49-9011	Mechanical Door Repairers	510	530	20	3.33	50	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,400	1,390	0	-0.21	100	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,450	4,560	110	2.56	440	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	330	330	-10	-2.11	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	4,340	4,400	60	1.43	380	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	4,500	4,540	40	0.96	380	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	270	270	0	0.00	20	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	1,760	1,800	40	2.39	160	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,320	1,370	50	3.79	160	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	660	660	10	1.22	70	Associate's degree	None	Moderate-term on-the-job training
49-9063	Musical Instrument Repairers and Tuners	180	180	0	-1.66	20	High school diploma or equivalent	None	Apprenticeship
49-9069	Precision Instrument and Equipment Repairers, All Other	160	170	0	1.22	20	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,610	16,800	190	1.16	1,530	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9081	Wind Turbine Service Technicians	400	460	50	12.87	70	Postsecondary non-degree award	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	1,170	1,160	-10	-0.86	120	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	150	140	0	-2.04	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	60	70	0	3.12	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9096	Riggers	400	400	0	-0.25	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,640	1,670	30	1.71	220	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,030	1,050	20	1.95	110	High school diploma or equivalent	None	Moderate-term on-the-job training
51-0000	**Production Occupations**	**111,040**	**109,370**	**-1,660**	**-1.50**	**10,070**			
51-1000	**Supervisors of Production Workers**	**9,550**	**9,470**	**-80**	**-0.81**	**800**			
51-1011	First-Line Supervisors of Production and Operating Workers	9,550	9,470	-80	-0.81	800	High school diploma or equivalent	Less than 5 years	None
51-2000	**Assemblers and Fabricators**	**19,320**	**18,640**	**-680**	**-3.53**	**1,520**			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	1,200	1,110	-90	-7.59	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders,	3,290	3,290	-10	-0.27	320	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2031	Engine and Other Machine Assemblers	690	650	-40	-5.39	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,050	1,000	-50	-4.65	70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2051	Fiberglass Laminators and Fabricators	340	340	0	0.30	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2090	Miscellaneous Assemblers and Fabricators	12,520	12,030	-480	-3.87	990	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3000	**Food Processing Workers**	**7,970**	**8,250**	**280**	**3.54**	**1,100**			
51-3011	Bakers	1,460	1,490	30	2.19	200	No formal educational credential	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,100	1,100	0	0.00	120	No formal educational credential	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,450	1,520	70	5.04	190	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	660	690	30	4.86	90	No formal educational credential	None	Short-term on-the-job training

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51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tende	480	500	20	4.20	60	No formal educational credential	None	Moderate-term on-the-job training
51-3092	Food Batchmakers	1,370	1,430	60	4.67	200	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	1,050	1,100	50	4.87	190	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3099	Food Processing Workers, All Other	410	420	10	2.46	40	No formal educational credential	None	Moderate-term on-the-job training
51-4000	**Metal Workers and Plastic Workers**	**27,560**	**27,120**	**-440**	**-1.60**	**2,320**			
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Pl	580	560	-10	-2.26	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	300	280	-10	-4.39	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	380	370	-10	-2.13	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal	2,230	2,170	-60	-2.74	180	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Pl	170	160	-10	-7.60	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and	1,070	1,030	-40	-3.64	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Pl	370	350	-10	-3.29	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	260	250	-10	-4.25	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	4,360	4,300	-60	-1.35	370	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	90	90	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	50	50	0	0.00	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	350	350	-10	-1.43	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, N	1,290	1,270	-20	-1.63	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,580	2,580	0	-0.04	230	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	380	370	-10	-2.10	30	Postsecondary non-degree award	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	11,460	11,330	-130	-1.10	1,010	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	310	300	-10	-3.23	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	420	400	-20	-5.70	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plasti	510	500	-10	-2.16	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	210	200	-10	-2.87	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	150	150	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5100	**Printing Workers**	**2,050**	**1,970**	**-80**	**-3.81**	**160**			
51-5111	Prepress Technicians and Workers	170	160	-10	-5.39	20	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,670	1,600	-60	-3.84	130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	210	210	-10	-2.37	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6000	**Textile, Apparel, and Furnishings Workers**	**5,340**	**5,160**	**-180**	**-3.43**	**510**			
51-6011	Laundry and Dry-Cleaning Workers	2,990	2,960	-30	-1.10	340	No formal educational credential	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	440	420	-20	-4.73	40	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	730	680	-60	-7.49	40	No formal educational credential	None	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	120	110	0	-3.45	10	No formal educational credential	None	Moderate-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	50	50	-10	-9.80	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and	240	240	-10	-2.07	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	320	300	-20	-4.76	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	320	320	0	-1.23	40	High school diploma or equivalent	None	Short-term on-the-job training
51-7000	**Woodworkers**	**2,410**	**2,340**	**-70**	**-2.74**	**200**			
51-7011	Cabinetmakers and Bench Carpenters	1,450	1,400	-50	-3.46	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	80	80	0	-2.60	10	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	350	350	-10	-1.98	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	300	300	-10	-1.99	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8000	**Plant and System Operators**	**5,970**	**5,930**	**-40**	**-0.69**	**500**			
51-8012	Power Distributors and Dispatchers	60	60	0	1.75	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	360	350	0	-0.85	30	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	350	360	10	1.70	40	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	2,360	2,380	20	0.93	200	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	250	250	0	1.63	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8092	Gas Plant Operators	560	550	-10	-0.90	50	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,900	1,830	-70	-3.47	140	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8099	Plant and System Operators, All Other	140	140	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9000	**Other Production Occupations**	**30,880**	**30,500**	**-380**	**-1.22**	**2,980**			
51-9011	Chemical Equipment Operators and Tenders	670	680	10	1.79	70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	570	570	0	-0.52	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	420	390	-30	-6.46	30	No formal educational credential	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,220	1,230	20	1.23	130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	120	110	-10	-9.02	10	No formal educational credential	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	300	290	-10	-2.33	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and	920	910	-10	-0.98	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	350	340	-10	-2.31	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6,840	6,580	-260	-3.82	600	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	390	370	-20	-5.38	40	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	220	220	0	0.00	30	High school diploma or equivalent	None	Moderate-term on-the-job training

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2020 - 2022

Code	Occupation Title	Employment 2020	Employment 2022	Employment Change Number	Employment Change Percent	Annual Total Openings[1]	Education and Training Classification: Typical Entry-Level Education[2]	Work Experience in a Related Occupation[3]	Typical on-the-job Training[4]
51-9082	Medical Appliance Technicians	70	70	0	1.47	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	170	170	0	1.82	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,640	2,680	40	1.59	290	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	100	100	0	-1.98	10	No formal educational credential	None	Moderate-term on-the-job training
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	3,080	3,040	-40	-1.17	270	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	170	160	-10	-2.99	20	High school diploma or equivalent	None	Short-term on-the-job training
51-9161	Computer Numerically Controlled Tool Operators	3,450	3,340	-110	-3.22	240	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9162	Computer Numerically Controlled Tool Programmers	310	320	10	2.60	30	Postsecondary non-degree award	None	Moderate-term on-the-job training
51-9191	Adhesive Bonding Machine Operators and Tenders	170	160	-10	-4.24	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	420	420	10	1.44	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9194	Etchers and Engravers	70	70	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	530	510	-20	-2.85	40	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,210	1,220	20	1.32	130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9197	Tire Builders	1,920	1,950	30	1.35	180	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	2,770	2,780	0	0.14	370	High school diploma or equivalent	None	Short-term on-the-job training
51-9199	Production Workers, All Other	1,390	1,380	0	-0.29	140	High school diploma or equivalent	None	Moderate-term on-the-job training
53-0000	**Transportation and Material Moving Occupations**	**141,000**	**142,020**	**1,020**	**0.72**	**16,100**			
53-1000	**Supervisors of Transportation and Material Moving Workers**	**6,070**	**6,100**	**30**	**0.41**	**570**			
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraf	6,040	6,070	30	0.41	570	High school diploma or equivalent	Less than 5 years	None
53-2000	**Air Transportation Workers**	**1,440**	**1,460**	**30**	**1.74**	**140**			
53-2011	Airline Pilots, Copilots, and Flight Engineers	230	240	0	1.29	20	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	800	820	20	2.00	80	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2021	Air Traffic Controllers	350	350	0	0.57	30	Associate's degree	None	Long-term on-the-job training
53-3000	**Motor Vehicle Operators**	**53,000**	**53,550**	**550**	**1.04**	**5,710**			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	130	140	0	3.05	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	6,610	6,660	60	0.83	700	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	28,340	28,500	160	0.55	2,940	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	9,370	9,480	110	1.14	1,000	High school diploma or equivalent	None	Short-term on-the-job training
53-3052	Bus Drivers, Transit and Intercity	960	990	30	3.12	130	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	7,190	7,380	190	2.67	860	No formal educational credential	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	390	400	10	1.78	70	No formal educational credential	None	Short-term on-the-job training
53-4000	**Rail Transportation Workers**	**1,020**	**1,020**	**0**	**0.29**	**80**			
53-4011	Locomotive Engineers	450	450	0	0.45	40	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	190	190	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6000	**Other Transportation Workers**	**3,270**	**3,270**	**10**	**0.21**	**400**			
53-6011	Bridge and Lock Tenders	50	50	0	2.08	10	High school diploma or equivalent	None	Short-term on-the-job training
53-6021	Parking Lot Attendants	830	840	10	1.21	120	No formal educational credential	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,420	1,420	0	0.21	190	No formal educational credential	None	Short-term on-the-job training
53-6041	Traffic Technicians	50	50	0	3.92	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6051	Transportation Inspectors	690	690	0	-0.15	60	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	210	210	-10	-3.29	10	High school diploma or equivalent	None	Short-term on-the-job training
53-7000	**Material Moving Workers**	**76,160**	**76,580**	**420**	**0.54**	**9,190**			
53-7011	Conveyor Operators and Tenders	680	670	-10	-0.74	80	No formal educational credential	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	610	610	10	0.83	60	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7041	Hoist and Winch Operators	80	70	0	-1.33	10	No formal educational credential	None	Short-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	7,270	7,320	50	0.69	730	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	5,000	5,030	30	0.68	650	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	31,280	31,660	380	1.21	3,990	No formal educational credential	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	720	730	10	1.40	90	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	3,950	3,940	-10	-0.15	500	No formal educational credential	None	Short-term on-the-job training
53-7065	Stockers and Order Fillers	22,500	22,580	80	0.36	2,700	High school diploma or equivalent	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	280	280	-10	-1.77	30	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	500	490	-10	-1.41	50	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	1,260	1,060	-210	-16.53	20	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	1,750	1,840	90	5.14	270	No formal educational credential	None	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	190	190	0	0.52	20	No formal educational credential	None	Short-term on-the-job training

Footnotes:

[1]The Bureau of Labor Statistics (BLS) has implemented a new methodology to measure occupational separations for 2020-2022 projections. For more information about the Separations methodology, visit: http://www.bls.gov/emp/ep_separations.htm

[2]Represents the typical education level needed to enter the occupation.

[3]Indicates if work experience in a related occupation is commonly considered necessary by employers for entry, or is a commonly accepted substitute for formal types of training.

[4]Indicates the typical on-the-job training needed to attain competency in the occupation.

NOTE: For more information about the education, work experience, and on-the-job training categories assigned to occupations, see www.bls.gov/emp/ep_education_training_system.htm

Source: Employment Projections Program, Oklahoma Employment Security Commission, Research & Analysis Division.