

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2019 - 2021

Code	Occupation Title	Employment		Employment		Annual Total Openings ¹	Education and Training Classification		
		2019	2021	Number	Percent		Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
00-0000	Total, All Occupations	1,803,860	1,825,340	21,480	1.19	216,930			
11-0000	Management Occupations	114,160	115,620	1,460	1.28	10,420			
11-1000	Top Executives	34,100	34,410	310	0.9	3,040			
11-1011	Chief Executives	5,170	5,110	-50	-1.03	340	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	27,980	28,330	340	1.23	2,620	Bachelor's degree	5 years or more	None
11-1031	Legislators	960	970	20	1.88	80	Bachelor's degree	Less than 5 years	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	5,550	5,620	70	1.26	530			
11-2011	Advertising and Promotions Managers	140	140	0	1.43	10	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,500	1,520	20	1.47	140	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	3,080	3,110	30	1.1	290	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	840	850	10	1.44	80	Bachelor's degree	5 years or more	None
11-3000	Operations Specialties Managers	24,280	24,680	400	1.64	2,150			
11-3011	Administrative Services Managers	7,300	7,380	80	1.04	650	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	3,750	3,810	60	1.49	320	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	7,030	7,230	200	2.9	650	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	1,970	1,980	10	0.41	150	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	550	550	10	1.65	50	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,660	1,680	20	1.39	140	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	140	140	0	1.41	10	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,450	1,470	20	1.03	130	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	440	450	10	1.14	40	Bachelor's degree	5 years or more	None
11-9000	Other Management Occupations	50,210	50,900	690	1.37	4,700			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	10,380	10,390	10	0.1	1,040	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	4,330	4,410	80	1.94	360	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	810	820	10	1.24	70	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	3,380	3,410	30	1.01	280	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	2,560	2,580	10	0.51	210	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	360	360	10	1.68	30	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	2,020	2,040	20	0.84	160	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	5,060	5,220	170	3.26	670	High school diploma or equivalent	Less than 5 years	None
11-9061	Funeral Service Managers	450	450	10	1.57	40	Associate's degree	Less than 5 years	None
11-9071	Gaming Managers	550	550	0	0.55	60	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	680	700	20	2.21	80	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	7,770	7,950	180	2.32	710	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	400	400	0	1	40	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	240	230	-10	-2.51	20	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	4,450	4,490	50	1.03	370	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1,550	1,570	30	1.81	150	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	280	280	0	1.43	20	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	4,970	5,040	70	1.35	410	Bachelor's degree	Less than 5 years	None
13-0000	Business and Financial Operations Occupations	86,490	87,500	1,000	1.16	8,780			
13-1000	Business Operations Specialists	55,270	55,950	670	1.21	5,800			
13-1020	Buyers and Purchasing Agents	5,500	5,440	-60	-1.06	540	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,210	4,160	-50	-1.23	330	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	4,340	4,400	60	1.4	410	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	2,010	2,060	50	2.44	230	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	7,090	7,190	100	1.37	760	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	2,040	2,000	-50	-2.25	180	Bachelor's degree	Less than 5 years	None
13-1081	Logisticians	2,900	2,940	50	1.66	300	Bachelor's degree	None	None
13-1111	Management Analysts	6,110	6,300	180	2.96	670	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	1,470	1,490	30	1.84	180	Bachelor's degree	None	None
13-1131	Fundraisers	1,230	1,250	20	1.3	140	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	920	930	10	0.65	90	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	5,200	5,290	90	1.71	610	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5,660	5,860	200	3.46	690	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	6,410	6,470	60	0.86	650	Bachelor's degree	None	None
13-2000	Financial Specialists	31,220	31,550	330	1.06	2,980			
13-2011	Accountants and Auditors	15,970	16,060	90	0.59	1,540	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	1,080	1,100	20	2.13	90	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	850	850	0	-0.35	70	Bachelor's degree	None	None
13-2041	Credit Analysts	630	640	10	1.59	60	Bachelor's degree	None	None
13-2051	Financial Analysts	1,700	1,720	20	1.36	160	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,530	1,580	50	3.07	140	Bachelor's degree	None	Long-term on-the-job training
13-2053	Insurance Underwriters	830	820	-10	-1.33	60	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	490	500	10	2.24	40	Bachelor's degree	None	Long-term on-the-job training
13-2071	Credit Counselors	660	670	10	1.36	60	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	4,120	4,190	80	1.9	390	Bachelor's degree	None	None
13-2081	Tax Examiners and Collectors, and Revenue Agents	440	440	0	0.68	40	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,950	1,980	30	1.49	240	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	980	990	20	1.74	90	Bachelor's degree	None	Moderate-term on-the-job training
15-0000	Computer and Mathematical Occupations	33,780	34,250	470	1.38	2,760			

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15-1100	Computer Occupations	32,800	33,220	420	1.29	2,670			
15-1111	Computer and Information Research Scientists	550	560	20	2.74	50	Master's degree	None	None
15-1121	Computer Systems Analysts	3,610	3,630	20	0.64	270	Bachelor's degree	None	None
15-1122	Information Security Analysts	900	940	40	4.45	90	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	1,670	1,620	-50	-3.05	90	Bachelor's degree	None	None
15-1132	Software Developers, Applications	4,640	4,820	180	3.81	420	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	1,840	1,890	50	2.5	160	Bachelor's degree	None	None
15-1134	Web Developers	920	930	10	0.98	70	Associate's degree	None	None
15-1141	Database Administrators	1,740	1,760	20	0.86	130	Bachelor's degree	None	None
15-1142	Network and Computer Systems Administrators	3,280	3,290	10	0.3	240	Bachelor's degree	None	None
15-1143	Computer Network Architects	870	870	-10	-0.57	60	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	7,180	7,280	90	1.28	640	Some college, no degree	None	None
15-1152	Computer Network Support Specialists	2,650	2,660	10	0.38	220	Associate's degree	None	None
15-1199	Computer Occupations, All Other	2,930	2,970	40	1.4	240	Bachelor's degree	None	None
15-2000	Mathematical Science Occupations	990	1,030	40	4.46	90			
15-2031	Operations Research Analysts	550	570	30	4.77	50	Bachelor's degree	None	None
15-2041	Statisticians	400	420	20	4.21	40	Master's degree	None	None
17-0000	Architecture and Engineering Occupations	30,300	30,720	420	1.38	2,670			
17-1000	Architects, Surveyors, and Cartographers	2,290	2,340	50	2.36	200			
17-1011	Architects, Except Landscape and Naval	1,080	1,110	30	3.15	100	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	230	230	10	2.63	20	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	120	120	0	0.84	10	Bachelor's degree	None	None
17-1022	Surveyors	860	880	10	1.5	70	Bachelor's degree	None	Internship/residency
17-2000	Engineers	17,740	17,960	220	1.23	1,360			
17-2011	Aerospace Engineers	1,170	1,190	30	2.49	90	Bachelor's degree	None	None
17-2041	Chemical Engineers	280	280	0	-0.35	20	Bachelor's degree	None	None
17-2051	Civil Engineers	2,550	2,610	70	2.59	230	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	240	240	10	2.09	20	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,440	1,470	30	2.16	110	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,920	1,940	20	1.25	140	Bachelor's degree	None	None
17-2081	Environmental Engineers	900	910	10	0.89	70	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	630	640	10	0.95	50	Bachelor's degree	None	None
17-2112	Industrial Engineers	1,710	1,760	50	3.1	150	Bachelor's degree	None	None
17-2131	Materials Engineers	280	290	0	1.41	20	Bachelor's degree	None	None
17-2141	Mechanical Engineers	2,980	3,030	50	1.51	230	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	270	280	10	1.85	20	Bachelor's degree	None	None
17-2171	Petroleum Engineers	1,950	1,880	-70	-3.8	100	Bachelor's degree	None	None
17-2199	Engineers, All Other	1,310	1,330	20	1.22	100	Bachelor's degree	None	None
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	10,270	10,420	150	1.41	1,110			
17-3011	Architectural and Civil Drafters	1,410	1,430	30	1.92	160	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	400	410	10	2.27	50	Associate's degree	None	None
17-3013	Mechanical Drafters	1,160	1,140	-20	-1.46	110	Associate's degree	None	None
17-3022	Civil Engineering Technicians	1,150	1,170	20	1.48	120	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,620	1,640	30	1.8	170	Associate's degree	None	None
17-3024	Electro-Mechanical Technicians	340	350	10	1.77	40	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	470	470	0	0.85	50	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	770	780	10	0.65	80	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	560	560	0	0	50	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	1,430	1,470	40	2.58	160	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	850	870	20	2.72	110	High school diploma or equivalent	None	Moderate-term on-the-job training
19-0000	Life, Physical, and Social Science Occupations	13,060	13,170	110	0.83	1,360			
19-1000	Life Scientists	2,000	2,030	30	1.45	210			
19-1011	Animal Scientists	70	70	0	1.52	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	290	290	0	0.7	30	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	160	160	0	1.28	20	Doctoral or professional degree	None	None
19-1022	Microbiologists	150	160	10	3.29	20	Bachelor's degree	None	None
19-1023	Zoologists and Wildlife Biologists	150	150	0	0.67	10	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	380	380	0	1.06	40	Bachelor's degree	None	None
19-1031	Conservation Scientists	280	280	0	1.08	30	Bachelor's degree	None	None
19-1041	Epidemiologists	80	80	0	0	10	Master's degree	None	None
19-2000	Physical Scientists	2,850	2,830	-20	-0.7	280			
19-2021	Atmospheric and Space Scientists	410	420	0	0.72	40	Bachelor's degree	None	None
19-2031	Chemists	500	500	10	1.41	50	Bachelor's degree	None	None
19-2032	Materials Scientists	60	60	0	1.72	10	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	530	540	10	1.9	60	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	1,150	1,100	-50	-4.1	100	Bachelor's degree	None	None
19-2043	Hydrologists	50	50	0	2	10	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	120	120	0	2.61	10	Bachelor's degree	None	None
19-3000	Social Scientists and Related Workers	2,750	2,810	70	2.37	250			
19-3011	Economists	220	220	0	0.9	20	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	1,630	1,670	40	2.4	140	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	130	130	0	1.52	10	Master's degree	None	Internship/residency

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19-3051	Urban and Regional Planners	230	240	10	4.41	30	Master's degree	None	None
19-3093	Historians	60	70	0	1.56	10	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	180	180	0	1.68	20	Bachelor's degree	None	None
19-4000	Life, Physical, and Social Science Technicians	5,470	5,500	30	0.62	620			
19-4011	Agricultural and Food Science Technicians	230	230	10	2.18	30	Associate's degree	None	Moderate-term on-the-job training
19-4021	Biological Technicians	670	670	10	0.9	70	Bachelor's degree	None	None
19-4031	Chemical Technicians	840	840	10	0.72	90	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	1,340	1,310	-30	-1.94	120	Associate's degree	None	Moderate-term on-the-job training
19-4061	Social Science Research Assistants	170	170	10	3.57	20	Bachelor's degree	None	None
19-4091	Environmental Science and Protection Technicians, Including Health	420	430	10	2.14	50	Associate's degree	None	None
19-4093	Forest and Conservation Technicians	130	130	0	3.08	20	Associate's degree	None	None
19-4099	Life, Physical, and Social Science Technicians, All Other	1,490	1,510	20	1.35	190	Associate's degree	None	None
21-0000	Community and Social Service Occupations	27,790	30,260	470	1.58	3,330			
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	27,870	28,320	450	1.62	3,100			
21-1012	Educational, Guidance, School, and Vocational Counselors	4,360	4,430	70	1.63	490	Master's degree	None	None
21-1013	Marriage and Family Therapists	530	550	20	3.19	60	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	2,300	2,330	30	1.35	250	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	4,080	4,220	140	3.31	490	Bachelor's degree	None	None
21-1019	Counselors, All Other	110	120	0	2.63	10	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	6,680	6,710	30	0.46	670	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	2,270	2,330	60	2.65	250	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	1,460	1,490	30	2.12	160	Master's degree	None	Internship/residency
21-1029	Social Workers, All Other	400	410	0	0.74	40	Bachelor's degree	None	None
21-1091	Health Educators	960	990	20	2.18	120	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	960	960	0	0.21	80	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	1,970	1,990	20	1.22	250	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	1,250	1,270	20	1.77	150	High school diploma or equivalent	None	Short-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	530	530	0	0.19	60	Bachelor's degree	None	None
21-2000	Religious Workers	1,920	1,940	20	0.99	230			
21-2011	Clergy	1,120	1,130	10	1.25	130	Bachelor's degree	None	Moderate-term on-the-job training
21-2021	Directors, Religious Activities and Education	580	580	0	0.7	70	Bachelor's degree	Less than 5 years	None
21-2099	Religious Workers, All Other	230	230	0	0.44	30	Bachelor's degree	None	None
23-0000	Legal Occupations	14,680	14,810	130	0.87	1,040			
23-1000	Lawyers, Judges, and Related Workers	9,350	9,430	80	0.84	490			
23-1011	Lawyers	8,190	8,270	80	0.96	430	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	160	160	0	0	10	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1022	Arbitrators, Mediators, and Conciliators	90	90	0	1.15	0	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	870	870	0	-0.23	40	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	Legal Support Workers	5,330	5,380	50	0.92	550			
23-2011	Paralegals and Legal Assistants	3,000	3,070	70	2.4	360	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	2,050	2,030	-20	-1.02	170	High school diploma or equivalent	None	Moderate-term on-the-job training
25-0000	Education, Training, and Library Occupations	104,350	105,350	1,000	0.96	9,740			
25-1000	Postsecondary Teachers	21,040	21,220	180	0.87	1,840			
25-1011	Business Teachers, Postsecondary	1,500	1,520	20	1.4	140	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	420	420	0	0.48	40	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	710	710	0	0.14	60	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	650	660	10	1.71	60	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	750	760	10	1.48	70	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	270	270	0	0	20	Doctoral or professional degree	None	None
25-1053	Environmental Science Teachers, Postsecondary	100	100	0	1	10	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	140	140	0	0.74	10	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	170	170	0	1.2	20	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	200	200	0	0.5	20	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	540	540	10	1.31	50	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	210	210	0	0	20	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	1,460	1,500	40	2.88	140	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	680	700	20	3.54	70	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	770	770	10	0.78	70	Doctoral or professional degree	Less than 5 years	None
25-1082	Library Science Teachers, Postsecondary	150	150	0	0.69	10	Doctoral or professional degree	None	None
25-1112	Law Teachers, Postsecondary	300	300	0	1.01	30	Doctoral or professional degree	Less than 5 years	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,140	1,150	10	0.88	100	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	460	460	0	0.22	40	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	870	870	0	0	70	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	210	210	0	0.95	20	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	240	250	0	0.82	20	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	460	460	0	0.22	40	Doctoral or professional degree	None	None
25-1191	Graduate Teaching Assistants	2,180	2,180	0	-0.05	180	Bachelor's degree	None	None
25-1192	Home Economics Teachers, Postsecondary	90	90	0	1.11	10	Master's degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	200	200	0	0	20	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	2,880	2,910	30	1.04	250	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	2,040	2,050	10	0.29	170	Doctoral or professional degree	None	None
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	51,980	52,430	450	0.87	4,270			
25-2011	Preschool Teachers, Except Special Education	6,770	6,840	70	0.99	720	Associate's degree	None	None

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Code	Occupation Title	Employment		Employment		Annual Total Openings ¹	Education and Training Classification		
		2019	2021	Number	Percent		Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
25-2012	Kindergarten Teachers, Except Special Education	2,120	2,140	20	0.9	220	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	18,200	18,360	150	0.85	1,430	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	7,690	7,760	70	0.88	600	Bachelor's degree	None	None
25-2023	Career/Technical Education Teachers, Middle School	210	220	0	0.47	20	Bachelor's degree	Less than 5 years	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	11,640	11,750	100	0.88	870	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	750	750	0	0.53	60	Bachelor's degree	Less than 5 years	None
25-2051	Special Education Teachers, Preschool	100	100	0	0	10	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	2,140	2,150	10	0.65	170	Bachelor's degree	None	None
25-2053	Special Education Teachers, Middle School	970	980	10	0.72	80	Bachelor's degree	None	None
25-2054	Special Education Teachers, Secondary School	1,240	1,250	10	0.81	100	Bachelor's degree	None	None
25-2059	Special Education Teachers, All Other	140	140	0	2.13	10	Bachelor's degree	None	None
25-3000	Other Teachers and Instructors	12,710	12,900	180	1.45	1,550			
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	950	940	-10	-1.16	100	Bachelor's degree	None	None
25-3021	Self-Enrichment Education Teachers	2,350	2,430	80	3.49	310	High school diploma or equivalent	Less than 5 years	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	3,040	3,100	60	1.81	380	Bachelor's degree	None	None
25-3098	Substitute Teachers	6,370	6,430	60	0.91	760	Bachelor's degree	None	None
25-4000	Librarians, Curators, and Archivists	3,380	3,420	40	1.27	430			
25-4011	Archivists	100	100	0	4.21	10	Master's degree	None	None
25-4012	Curators	200	210	10	5.1	30	Master's degree	None	None
25-4013	Museum Technicians and Conservators	130	140	10	7.03	20	Bachelor's degree	None	None
25-4021	Librarians	1,750	1,770	20	1.26	190	Master's degree	None	None
25-4031	Library Technicians	1,210	1,210	0	-0.17	190	Postsecondary non-degree award	None	None
25-9000	Other Education, Training, and Library Occupations	15,240	15,380	140	0.91	1,650			
25-9011	Audio-Visual and Multimedia Collections Specialists	160	160	0	0.65	10	Bachelor's degree	Less than 5 years	None
25-9021	Farm and Home Management Advisors	190	190	0	0	20	Master's degree	None	None
25-9031	Instructional Coordinators	1,490	1,510	20	1.35	150	Master's degree	5 years or more	None
25-9041	Teacher Assistants	13,010	13,120	110	0.85	1,430	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	400	410	10	1.5	40	Bachelor's degree	None	None
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	22,660	22,710	50	0.21	2,540			
27-1000	Art and Design Workers	6,600	6,630	30	0.44	680			
27-1011	Art Directors	380	380	0	0.26	40	Bachelor's degree	5 years or more	None
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	70	70	0	1.37	10	Bachelor's degree	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	230	230	0	0	30	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	310	320	10	2.56	40	Bachelor's degree	None	None
27-1023	Floral Designers	750	740	-10	-1.07	70	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	2,280	2,280	-10	-0.26	230	Bachelor's degree	None	None
27-1025	Interior Designers	660	670	10	1.66	70	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	1,560	1,580	20	1.16	170	High school diploma or equivalent	None	Short-term on-the-job training
27-1027	Set and Exhibit Designers	120	130	0	1.61	10	Bachelor's degree	None	None
27-2000	Entertainers and Performers, Sports and Related Workers	5,570	5,660	90	1.69	800			
27-2012	Producers and Directors	690	680	-10	-0.73	70	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	310	320	20	6.23	60	No formal educational credential	None	Long-term on-the-job training
27-2022	Coaches and Scouts	2,940	2,990	50	1.63	460	Bachelor's degree	None	None
27-2023	Umpires, Referees, and Other Sports Officials	180	190	0	2.17	30	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2041	Music Directors and Composers	310	310	0	0.97	40	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	760	770	10	1.32	100	No formal educational credential	None	Long-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	170	180	10	2.89	20	No formal educational credential	None	Short-term on-the-job training
27-3000	Media and Communication Workers	7,450	7,370	-70	-0.97	750			
27-3011	Radio and Television Announcers	430	410	-10	-3.29	40	Bachelor's degree	None	None
27-3021	Broadcast News Analysts	110	110	0	-2.63	10	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	530	480	-50	-9.52	40	Bachelor's degree	None	None
27-3031	Public Relations Specialists	3,110	3,140	30	1.03	340	Bachelor's degree	None	None
27-3041	Editors	960	890	-70	-7.33	70	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	780	800	20	1.92	90	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	720	730	10	0.83	80	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	720	730	10	1.94	80	Bachelor's degree	None	None
27-4000	Media and Communication Equipment Workers	3,050	3,050	0	-0.13	310			
27-4011	Audio and Video Equipment Technicians	950	970	20	1.58	110	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	270	260	-10	-2.59	30	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	130	130	0	0	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,050	1,040	-10	-1.24	100	High school diploma or equivalent	None	Moderate-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	390	400	0	0.25	40	Bachelor's degree	None	None
27-4032	Film and Video Editors	190	190	0	-0.53	20	Bachelor's degree	None	None
29-0000	Healthcare Practitioners and Technical Occupations	112,590	114,590	2,000	1.78	7,540			
29-1000	Health Diagnosing and Treating Practitioners	64,390	65,740	1,350	2.09	3,820			
29-1011	Chiropractors	530	530	0	0.57	20	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,120	1,120	10	0.45	40	Doctoral or professional degree	None	None
29-1023	Orthodontists	150	150	0	0.65	10	Doctoral or professional degree	None	Internship/residency
29-1029	Dentists, All Other Specialists	60	60	0	0	0	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	960	970	20	1.67	70	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	710	710	0	0.57	20	Doctoral or professional degree	None	None
29-1051	Pharmacists	3,680	3,680	0	-0.11	160	Doctoral or professional degree	None	None
29-1062	Family and General Practitioners	3,250	3,290	30	0.98	110	Doctoral or professional degree	None	Internship/residency

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29-1063	Internists, General	440	440	0	0	10	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	60	60	0	0	0	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	310	310	0	0.64	10	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	270	270	0	-0.73	10	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	3,120	3,140	20	0.77	100	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	1,550	1,620	70	4.58	130	Master's degree	None	None
29-1081	Podiatrists	60	70	0	1.56	0	Doctoral or professional degree	None	Internship/residency
29-1122	Occupational Therapists	1,000	1,030	30	2.59	70	Master's degree	None	None
29-1123	Physical Therapists	2,700	2,790	80	3.11	160	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	370	370	10	1.36	20	Associate's degree	None	None
29-1125	Recreational Therapists	250	250	0	0.81	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	1,750	1,820	70	4.05	130	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,960	2,060	100	4.99	160	Master's degree	None	Internship/residency
29-1128	Exercise Physiologists	220	220	0	1.86	10	Bachelor's degree	None	None
29-1129	Therapists, All Other	120	120	0	3.45	10	Bachelor's degree	None	None
29-1131	Veterinarians	1,270	1,330	60	4.81	80	Doctoral or professional degree	None	None
29-1141	Registered Nurses	35,540	36,290	750	2.12	2,290	Bachelor's degree	None	None
29-1151	Nurse Anesthetists	270	280	10	2.56	20	Master's degree	None	None
29-1171	Nurse Practitioners	1,810	1,880	70	3.76	130	Master's degree	None	None
29-1199	Health Diagnosing and Treating Practitioners, All Other	210	210	0	1.95	10	Master's degree	None	None
29-2000	Health Technologists and Technicians	45,460	46,050	600	1.31	3,540			
29-2010	Clinical Laboratory Technologists and Technicians	4,490	4,570	80	1.69	320	Bachelor's degree	None	None
29-2021	Dental Hygienists	2,360	2,380	20	0.72	170	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	700	710	10	1	40	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	990	1,020	30	3.02	70	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	290	290	0	1.05	20	Associate's degree	None	None
29-2034	Radiologic Technologists	2,990	3,020	40	1.27	180	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	490	500	10	1.02	30	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	3,770	3,820	50	1.3	280	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	780	780	0	0.26	60	Associate's degree	None	None
29-2052	Pharmacy Technicians	4,890	4,930	50	0.98	420	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	840	860	20	2.38	80	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training
29-2055	Surgical Technologists	1,820	1,840	20	1.21	160	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	1,130	1,190	60	5.12	120	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	610	620	10	2.13	60	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	12,830	12,970	140	1.08	1,050	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	3,770	3,830	60	1.51	270	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	800	800	0	0.12	60	High school diploma or equivalent	None	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	90	90	0	0	10	Master's degree	None	Internship/residency
29-2099	Health Technologists and Technicians, All Other	1,390	1,430	40	2.66	110	Postsecondary non-degree award	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations	2,730	2,790	60	2.08	180			
29-9011	Occupational Health and Safety Specialists	1,750	1,780	30	1.95	120	Bachelor's degree	None	None
29-9091	Athletic Trainers	380	400	20	4.69	30	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	330	330	0	0.91	20	Postsecondary non-degree award	None	None
31-0000	Healthcare Support Occupations	50,370	51,440	1,070	2.12	6,340			
31-1000	Nursing, Psychiatric, and Home Health Aides	28,120	28,650	530	1.87	3,440			
31-1011	Home Health Aides	7,370	7,720	360	4.83	1,020	High school diploma or equivalent	None	Short-term on-the-job training
31-1013	Psychiatric Aides	1,260	1,290	30	2.3	160	High school diploma or equivalent	None	Short-term on-the-job training
31-1014	Nursing Assistants	18,800	18,940	140	0.73	2,180	Postsecondary non-degree award	None	None
31-1015	Orderlies	700	700	0	0.43	80	High school diploma or equivalent	None	Short-term on-the-job training
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	3,060	3,180	120	3.79	430			
31-2011	Occupational Therapy Assistants	700	740	40	5.13	100	Associate's degree	None	None
31-2021	Physical Therapist Assistants	1,560	1,620	60	3.58	230	Associate's degree	None	None
31-2022	Physical Therapist Aides	680	700	20	3.09	100	High school diploma or equivalent	None	Short-term on-the-job training
31-9000	Other Healthcare Support Occupations	19,190	19,610	430	2.23	2,470			
31-9011	Massage Therapists	540	560	20	4.28	80	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	4,100	4,130	40	0.85	480	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	8,910	9,170	260	2.95	1,130	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	880	880	10	0.91	100	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	430	420	-20	-3.46	50	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	870	840	-30	-3.67	90	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,540	1,620	80	5.4	300	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1,480	1,540	50	3.65	190	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	450	450	10	1.8	60	High school diploma or equivalent	None	None
33-0000	Protective Service Occupations	40,310	40,850	530	1.32	4,380			
33-1000	Supervisors of Protective Service Workers	5,380	5,480	100	1.82	430			
33-1011	First-Line Supervisors of Correctional Officers	270	270	0	-0.37	20	High school diploma or equivalent	Less than 5 years	None
33-1012	First-Line Supervisors of Police and Detectives	2,690	2,750	60	2.27	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	1,240	1,270	30	2.34	90	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors of Protective Service Workers, All Other	1,190	1,200	10	0.76	120	High school diploma or equivalent	Less than 5 years	None
33-2000	Fire Fighting and Prevention Workers	4,250	4,350	100	2.37	350			
33-2011	Firefighters	4,030	4,120	100	2.36	330	Postsecondary non-degree award	None	Long-term on-the-job training
33-3000	Law Enforcement Workers	14,250	14,390	150	1.02	1,150			

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33-3011	Bailiffs	90	90	0	1.11	10	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	4,530	4,510	-20	-0.44	390	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	890	900	10	0.67	60	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3031	Fish and Game Wardens	160	160	0	-0.64	10	Bachelor's degree	None	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	8,510	8,680	160	1.91	680	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9000	Other Protective Service Workers	16,430	16,620	190	1.15	2,450			
33-9011	Animal Control Workers	350	360	10	2.27	40	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	330	330	10	2.46	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigators	1,530	1,530	0	0	200	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9032	Security Guards	11,460	11,600	140	1.2	1,550	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	270	270	0	1.12	50	No formal educational credential	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,620	1,640	20	1.36	400	No formal educational credential	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	280	290	0	0.7	30	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	600	600	10	1.34	150	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations	161,770	166,900	5,140	3.18	30,280			
35-1000	Supervisors of Food Preparation and Serving Workers	16,990	17,580	590	3.48	2,910			
35-1011	Chefs and Head Cooks	1,170	1,210	40	2.99	170	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	15,820	16,380	560	3.51	2,740	High school diploma or equivalent	Less than 5 years	None
35-2000	Cooks and Food Preparation Workers	55,020	56,390	1,370	2.49	8,830			
35-2011	Cooks, Fast Food	14,890	14,920	30	0.23	2,130	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	10,200	10,290	80	0.82	1,490	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	16,980	17,960	980	5.74	2,960	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	4,470	4,530	60	1.37	670	No formal educational credential	None	Short-term on-the-job training
35-2021	Food Preparation Workers	8,350	8,570	220	2.61	1,570	No formal educational credential	None	Short-term on-the-job training
35-3000	Food and Beverage Serving Workers	75,550	78,260	2,720	3.6	15,590			
35-3011	Bartenders	6,740	6,920	180	2.65	1,290	No formal educational credential	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	32,200	33,740	1,540	4.79	6,640	No formal educational credential	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,670	4,750	90	1.84	1,070	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	29,590	30,450	860	2.89	6,190	No formal educational credential	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	2,350	2,400	60	2.39	400	No formal educational credential	None	Short-term on-the-job training
35-9000	Other Food Preparation and Serving Related Workers	14,210	14,660	460	3.22	2,950			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	4,350	4,500	150	3.5	830	No formal educational credential	None	Short-term on-the-job training
35-9021	Dishwashers	4,380	4,480	100	2.31	750	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	5,310	5,510	200	3.75	1,340	No formal educational credential	None	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	170	180	10	2.89	30	No formal educational credential	None	Short-term on-the-job training
37-0000	Building and Grounds Cleaning and Maintenance Occupations	53,260	54,030	770	1.45	7,360			
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	5,120	5,210	100	1.86	620			
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,620	2,660	50	1.72	320	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	2,500	2,550	50	2	300	High school diploma or equivalent	Less than 5 years	None
37-2000	Building Cleaning and Pest Control Workers	36,120	36,540	420	1.16	5,040			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	21,750	22,080	320	1.48	3,050	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	13,330	13,420	90	0.65	1,840	No formal educational credential	None	Short-term on-the-job training
37-3000	Grounds Maintenance Workers	12,020	12,280	260	2.13	1,700			
37-3011	Landscaping and Groundskeeping Workers	10,510	10,740	230	2.19	1,490	No formal educational credential	None	Short-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,000	1,020	20	2	140	High school diploma or equivalent	None	Short-term on-the-job training
39-0000	Personal Care and Service Occupations	58,540	60,020	1,480	2.53	9,660			
39-1000	Supervisors of Personal Care and Service Workers	3,970	4,030	60	1.54	510			
39-1010	First-Line Supervisors of Gaming Workers	1,500	1,510	10	0.73	250	High school diploma or equivalent	Less than 5 years	None
39-1021	First-Line Supervisors of Personal Service Workers	2,470	2,520	50	2.02	270	High school diploma or equivalent	Less than 5 years	None
39-2000	Animal Care and Service Workers	3,550	3,680	130	3.75	640			
39-2011	Animal Trainers	540	560	10	2.39	90	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	3,010	3,130	120	3.99	560	High school diploma or equivalent	None	Short-term on-the-job training
39-3000	Entertainment Attendants and Related Workers	6,590	6,660	70	1.11	1,390			
39-3011	Gaming Dealers	1,920	1,910	-10	-0.47	290	High school diploma or equivalent	None	Short-term on-the-job training
39-3021	Motion Picture Projectionists	120	110	-10	-4.24	20	No formal educational credential	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,690	1,720	30	1.71	430	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,870	1,920	50	2.62	460	No formal educational credential	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	350	360	10	2.54	90	High school diploma or equivalent	None	Short-term on-the-job training
39-4000	Funeral Service Workers	1,180	1,190	10	1.19	180			
39-4011	Embalmers	130	130	0	0	20	Associate's degree	None	Long-term on-the-job training
39-4021	Funeral Attendants	610	620	10	1.31	100	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	440	450	10	1.36	60	Associate's degree	None	Long-term on-the-job training
39-5000	Personal Appearance Workers	6,690	6,830	140	2.05	900			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	5,530	5,640	110	1.99	750	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	190	200	10	3.09	30	Postsecondary non-degree award	None	None
39-6000	Baggage Porters, Bellhops, and Concierges	670	680	10	2.1	100			
39-6011	Baggage Porters and Bellhops	290	290	10	2.46	50	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	380	390	10	1.83	60	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7000	Tour and Travel Guides	270	290	20	6.99	60			
39-7010	Tour and Travel Guides	270	290	20	6.99	60	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9000	Other Personal Care and Service Workers	35,620	36,650	1,030	2.89	5,870			
39-9011	Childcare Workers	11,810	11,860	50	0.41	1,790	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	15,510	16,360	840	5.44	2,640	High school diploma or equivalent	None	Short-term on-the-job training

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Code	Occupation Title	Employment		Employment		Annual Total Openings ¹	Education and Training Classification		
		2019	2021	Number	Percent		Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
39-9031	Fitness Trainers and Aerobics Instructors	3,850	3,940	90	2.34	690	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	3,300	3,340	40	1.06	570	High school diploma or equivalent	None	Short-term on-the-job training
41-0000	Sales and Related Occupations	177,060	177,290	230	0.13	24,980			
41-1000	Supervisors of Sales Workers	26,400	26,380	-20	-0.06	2,820			
41-1011	First-Line Supervisors of Retail Sales Workers	21,460	21,470	10	0.05	2,370	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	4,940	4,910	-30	-0.57	460	High school diploma or equivalent	Less than 5 years	None
41-2000	Retail Sales Workers	102,660	102,680	20	0.02	16,760			
41-2011	Cashiers	43,350	42,940	-400	-0.93	7,940	No formal educational credential	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	1,700	1,690	-10	-0.29	320	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	3,520	3,580	50	1.5	480	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	3,520	3,540	30	0.71	440	No formal educational credential	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	50,580	50,930	350	0.7	7,590	No formal educational credential	None	Short-term on-the-job training
41-3000	Sales Representatives, Services	17,770	17,880	110	0.62	2,110			
41-3011	Advertising Sales Agents	1,000	960	-40	-4.12	110	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5,570	5,630	50	0.97	570	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,620	1,660	40	2.6	180	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	350	350	0	0.29	50	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	9,240	9,290	50	0.58	1,200	High school diploma or equivalent	None	Moderate-term on-the-job training
41-4000	Sales Representatives, Wholesale and Manufacturing	16,650	16,800	160	0.95	1,830			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	6,890	6,960	70	1.02	760	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	9,760	9,850	90	0.9	1,070	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9000	Other Sales and Related Workers	13,590	13,550	-40	-0.29	1,450			
41-9021	Real Estate Brokers	1,090	1,110	20	1.84	110	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	8,560	8,670	110	1.25	870	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9031	Sales Engineers	300	300	0	0	30	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	1,750	1,580	-170	-9.76	180	No formal educational credential	None	Short-term on-the-job training
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	580	570	-10	-2.41	60	No formal educational credential	None	Short-term on-the-job training
43-0000	Office and Administrative Support Occupations	274,410	273,040	-1,370	-0.5	31,240			
43-1000	Supervisors of Office and Administrative Support Workers	23,120	23,010	-110	-0.45	2,370			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	23,120	23,010	-110	-0.45	2,370	High school diploma or equivalent	Less than 5 years	None
43-2000	Communications Equipment Operators	770	730	-50	-5.94	70			
43-2011	Switchboard Operators, Including Answering Service	740	690	-50	-6.24	70	High school diploma or equivalent	None	Short-term on-the-job training
43-3000	Financial Clerks	46,970	46,720	-250	-0.53	5,320			
43-3011	Bill and Account Collectors	4,480	4,410	-80	-1.67	490	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	5,630	5,720	100	1.72	660	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	24,780	24,670	-110	-0.45	2,820	Some college, no degree	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	1,280	1,270	-10	-0.78	170	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,450	2,440	-10	-0.2	270	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,330	1,330	0	-0.3	140	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	6,960	6,820	-140	-2.01	760	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	60	60	0	1.61	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4000	Information and Record Clerks	64,450	64,180	-280	-0.43	8,110			
43-4021	Correspondence Clerks	100	100	0	-0.97	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	2,800	2,860	60	2.18	290	High school diploma or equivalent	None	Long-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	370	370	0	-0.54	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4051	Customer Service Representatives	31,290	30,830	-460	-1.46	3,910	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	990	1,000	10	0.91	100	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,680	1,640	-40	-2.5	180	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,980	3,020	40	1.24	530	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	1,990	2,000	0	0.15	250	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,580	1,570	-10	-0.57	230	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	4,290	4,380	100	2.26	490	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	1,590	1,580	-20	-0.94	180	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1,190	1,170	-20	-1.6	130	Some college, no degree	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,240	1,230	-20	-1.21	130	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	9,650	9,700	40	0.46	1,320	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	960	960	0	0.42	110	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,630	1,650	30	1.54	200	High school diploma or equivalent	None	Short-term on-the-job training
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	46,700	47,130	430	0.92	5,440			
43-5011	Cargo and Freight Agents	520	540	20	3.26	60	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	1,130	1,170	40	3.44	130	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,790	1,820	40	2.01	190	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,400	2,430	30	1.04	240	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	670	660	-10	-0.9	60	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	980	970	-10	-0.51	70	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	4,110	4,090	-20	-0.49	300	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	770	760	-10	-1.42	60	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	6,800	6,900	100	1.46	760	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	6,750	6,800	50	0.74	700	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	20,200	20,390	190	0.94	2,800	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	580	600	20	2.93	80	High school diploma or equivalent	None	Short-term on-the-job training
43-6000	Secretaries and Administrative Assistants	54,090	53,320	-770	-1.43	5,630			
43-6011	Executive Secretaries and Executive Administrative Assistants	10,100	9,710	-390	-3.87	910	High school diploma or equivalent	Less than 5 years	None

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43-6012	Legal Secretaries	1,540	1,470	-70	-4.35	140	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	10,790	11,020	230	2.12	1,330	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	31,670	31,130	-540	-1.72	3,240	High school diploma or equivalent	None	Short-term on-the-job training
43-9000	Other Office and Administrative Support Workers	38,300	37,950	-350	-0.92	4,320			
43-9011	Computer Operators	370	350	-20	-5.74	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	2,500	2,410	-100	-3.8	230	High school diploma or equivalent	None	Short-term on-the-job training
43-9022	Word Processors and Typists	90	90	0	-3.19	10	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	130	130	-10	-3.85	10	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	2,530	2,520	-10	-0.36	250	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	930	890	-40	-4.09	80	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	29,160	28,990	-170	-0.58	3,400	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	640	620	-20	-2.83	70	High school diploma or equivalent	None	Short-term on-the-job training
43-9111	Statistical Assistants	140	140	0	0.72	20	Bachelor's degree	None	None
43-9199	Office and Administrative Support Workers, All Other	1,780	1,780	10	0.34	210	High school diploma or equivalent	None	Short-term on-the-job training
45-0000	Farming, Fishing, and Forestry Occupations	12,190	12,300	100	0.83	2,020			
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	730	730	10	0.82	110			
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	730	730	10	0.82	110	High school diploma or equivalent	Less than 5 years	None
45-2000	Agricultural Workers	10,860	10,960	100	0.93	1,810			
45-2011	Agricultural Inspectors	380	390	10	2.61	60	Bachelor's degree	None	Moderate-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	510	520	10	2.18	80	No formal educational credential	None	Short-term on-the-job training
45-2091	Agricultural Equipment Operators	960	990	30	2.7	170	No formal educational credential	None	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	3,260	3,290	20	0.74	550	No formal educational credential	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	5,490	5,520	30	0.49	910	No formal educational credential	None	Short-term on-the-job training
45-4000	Forest, Conservation, and Logging Workers	610	610	-10	-0.98	100			
45-4011	Forest and Conservation Workers	130	130	0	-1.56	20	High school diploma or equivalent	None	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	430	430	0	-0.23	70	High school diploma or equivalent	None	Moderate-term on-the-job training
47-0000	Construction and Extraction Occupations	100,370	102,240	1,880	1.87	12,560			
47-1000	Supervisors of Construction and Extraction Workers	11,010	11,190	180	1.63	1,240			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	11,010	11,190	180	1.63	1,240	High school diploma or equivalent	5 years or more	None
47-2000	Construction Trades Workers	61,590	63,160	1,570	2.55	7,640			
47-2011	Boilermakers	160	160	0	-0.63	20	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	390	400	10	2.56	50	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	370	380	10	3	40	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	7,420	7,560	140	1.9	850	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	200	200	0	0.5	20	No formal educational credential	None	Short-term on-the-job training
47-2044	Tile and Marble Setters	370	380	20	4.09	40	No formal educational credential	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2,880	2,970	90	3.09	350	No formal educational credential	None	Moderate-term on-the-job training
47-2061	Construction Laborers	13,080	13,430	350	2.67	1,650	No formal educational credential	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,410	1,450	40	2.91	200	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	6,930	7,090	160	2.26	890	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	930	940	10	1.29	100	No formal educational credential	None	Moderate-term on-the-job training
47-2111	Electricians	6,850	7,060	210	3.07	910	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	440	450	10	3.21	60	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	560	570	10	1.79	70	No formal educational credential	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	300	300	10	3.05	40	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	3,500	3,560	60	1.77	390	No formal educational credential	None	Moderate-term on-the-job training
47-2151	Pipelayers	1,060	1,090	40	3.41	140	No formal educational credential	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	7,450	7,700	250	3.32	960	High school diploma or equivalent	None	Apprenticeship
47-2161	Plasterers and Stucco Masons	400	410	10	1.25	40	No formal educational credential	None	Long-term on-the-job training
47-2181	Roofers	1,550	1,600	50	3.29	190	No formal educational credential	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,770	3,820	60	1.46	440	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	1,110	1,150	30	2.97	150	High school diploma or equivalent	None	Apprenticeship
47-3000	Helpers, Construction Trades	4,330	4,460	130	3.1	660			
47-3012	Helpers--Carpenters	240	250	0	1.23	40	No formal educational credential	None	Short-term on-the-job training
47-3013	Helpers--Electricians	2,010	2,070	60	2.89	300	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,410	1,470	60	3.97	220	High school diploma or equivalent	None	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	370	380	10	2.16	50	No formal educational credential	None	Short-term on-the-job training
47-4000	Other Construction and Related Workers	8,160	8,370	210	2.55	1,070			
47-4011	Construction and Building Inspectors	2,620	2,680	60	2.29	360	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4031	Fence Erectors	320	330	10	3.13	40	No formal educational credential	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3,320	3,400	90	2.59	420	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	310	320	10	3.9	40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	640	660	20	2.81	80	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4090	Miscellaneous Construction and Related Workers	670	680	20	2.25	90	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5000	Extraction Workers	15,280	15,060	-220	-1.42	1,950			
47-5011	Derrick Operators, Oil and Gas	1,050	1,030	-20	-1.99	140	No formal educational credential	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	2,760	2,700	-70	-2.5	350	No formal educational credential	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	2,980	2,910	-70	-2.35	380	No formal educational credential	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	300	300	0	0.67	40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	720	730	10	0.83	100	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5041	Continuous Mining Machine Operators	150	150	0	1.99	20	No formal educational credential	None	Moderate-term on-the-job training
47-5042	Mine Cutting and Channeling Machine Operators	220	230	10	4.63	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	590	620	30	5.45	100	No formal educational credential	None	Short-term on-the-job training

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Code	Occupation Title	Employment		Employment		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
		2019	2021	Number	Percent				
47-5071	Roustabouts, Oil and Gas	5,880	5,770	-100	-1.77	720	No formal educational credential	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	550	550	-10	-0.9	70	High school diploma or equivalent	None	Moderate-term on-the-job training
49-0000	Installation, Maintenance, and Repair Occupations	83,920	85,490	1,580	1.88	8,970			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	7,320	7,450	130	1.79	740			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	7,320	7,450	130	1.79	740	High school diploma or equivalent	Less than 5 years	None
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	8,110	8,240	130	1.62	900			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,240	1,250	10	0.64	140	Some college, no degree	None	Short-term on-the-job training
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	450	470	20	3.79	60	Associate's degree	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	2,030	2,060	20	1.18	240	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	740	750	10	1.76	60	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	390	400	10	2.57	50	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	1,280	1,300	20	1.33	120	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	470	480	10	2.15	50	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	60	60	0	-6.56	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	190	200	0	1.03	20	Postsecondary non-degree award	None	Short-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	1,230	1,270	30	2.76	170	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	25,650	26,050	400	1.56	2,650			
49-3021	Automotive Body and Related Repairers	1,870	1,920	50	2.79	210	High school diploma or equivalent	None	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	150	160	10	3.31	20	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	8,730	8,830	100	1.17	910	Postsecondary non-degree award	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4,090	4,170	70	1.78	420	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	580	590	10	1.73	60	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,300	2,330	30	1.26	240	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	170	170	0	0	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	280	280	10	2.54	30	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	160	170	10	3.09	20	Postsecondary non-degree award	None	Short-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	570	580	20	2.82	70	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	400	410	10	2.77	50	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,550	1,540	-10	-0.52	170	High school diploma or equivalent	None	Short-term on-the-job training
49-9000	Other Installation, Maintenance, and Repair Occupations	42,840	43,750	920	2.14	4,670			
49-9011	Mechanical Door Repairers	590	610	20	3.37	60	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,270	1,290	10	1.1	120	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,220	4,380	160	3.69	500	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	550	550	0	0.55	60	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	4,920	4,980	60	1.16	480	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	4,660	4,780	120	2.53	490	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	210	210	10	3.4	20	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	2,140	2,200	60	2.71	210	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,510	1,540	20	1.45	180	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	580	590	10	1.71	70	Associate's degree	None	Moderate-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,800	17,150	350	2.07	1,820	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9081	Wind Turbine Service Technicians	310	350	40	13.55	60	Postsecondary non-degree award	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	1,150	1,150	0	-0.17	130	High school diploma or equivalent	None	Short-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	150	150	0	-1.31	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9096	Riggers	450	450	0	-0.67	40	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,630	1,680	50	3.32	240	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,010	1,030	20	2.09	120	High school diploma or equivalent	None	Moderate-term on-the-job training
51-0000	Production Occupations	114,560	114,430	-130	-0.11	12,960			
51-1000	Supervisors of Production Workers	9,670	9,720	50	0.54	1,020			
51-1011	First-Line Supervisors of Production and Operating Workers	9,670	9,720	50	0.54	1,020	High school diploma or equivalent	Less than 5 years	None
51-2000	Assemblers and Fabricators	20,220	19,940	-280	-1.4	2,100			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	2,410	2,370	-40	-1.54	190	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	180	180	0	0	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,250	3,290	40	1.11	390	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,350	1,310	-40	-2.96	120	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	190	200	0	1.04	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	12,280	12,030	-240	-1.97	1,300	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3000	Food Processing Workers	8,080	8,330	250	3.13	1,220			
51-3011	Bakers	1,640	1,680	30	2.07	240	No formal educational credential	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,330	1,320	-10	-0.83	160	No formal educational credential	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	900	940	40	4.46	130	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	1,310	1,380	70	4.96	200	No formal educational credential	None	Short-term on-the-job training
51-3092	Food Batchmakers	1,230	1,280	60	4.56	210	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	830	870	40	4.8	150	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4000	Metal Workers and Plastic Workers	32,380	32,240	-140	-0.43	3,400			
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	3,260	3,200	-60	-1.66	300	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	410	430	20	5.16	50	Postsecondary non-degree award	None	Moderate-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	630	610	-20	-3.79	70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	270	270	0	-0.74	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	330	320	-10	-2.74	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 and Plastic	2,370	2,320	-50	-2.07	240	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 Plastic	320	300	-20	-6.52	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	860	850	-10	-1.04	90	High school diploma or equivalent	None	Moderate-term on-the-job training

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Code	Occupation Title	Employment		Employment		Annual Total Openings ¹	Education and Training Classification		
		2019	2021	Number	Percent		Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	690	680	-20	-2.59	70	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	330	320	-10	-3.29	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	5,500	5,520	20	0.35	570	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	130	130	0	-2.24	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	300	290	-10	-2.66	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,020	1,000	-20	-1.67	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	2,130	2,130	0	-0.14	220	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	470	470	0	0	50	Postsecondary non-degree award	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	11,030	11,140	100	0.92	1,270	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	530	520	-10	-2.45	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	360	350	-10	-1.69	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 Plastic	520	510	-10	-1.91	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	310	310	0	-0.97	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	320	320	-10	-2.47	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5100	Printing Workers	1,600	1,560	-40	-2.38	160			
51-5111	Prepress Technicians and Workers	230	220	-10	-4.72	20	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,240	1,210	-30	-2.1	120	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	130	120	0	-0.8	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6000	Textile, Apparel, and Furnishings Workers	5,790	5,730	-60	-1.02	700			
51-6011	Laundry and Dry-Cleaning Workers	3,060	3,070	10	0.29	410	No formal educational credential	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	340	330	-10	-3.27	30	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	820	800	-20	-2.92	80	No formal educational credential	None	Short-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	70	50	-20	-27.14	0	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	280	280	-10	-2.47	30	No formal educational credential	None	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	310	310	0	0.33	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	280	270	0	-0.73	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7000	Woodworkers	2,680	2,650	-30	-1.09	290			
51-7011	Cabinetmakers and Bench Carpenters	1,520	1,500	-20	-1.25	150	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	110	110	0	-0.94	10	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	430	420	-10	-2.33	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	280	280	0	-0.72	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8000	Plant and System Operators	5,640	5,680	40	0.67	590			
51-8012	Power Distributors and Dispatchers	120	120	0	0	10	High school diploma or equivalent	None	Long-term on-the-job training
51-8013	Power Plant Operators	420	420	0	0.24	40	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	320	330	10	2.2	40	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	2,210	2,220	10	0.5	210	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	150	150	0	0	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8092	Gas Plant Operators	350	350	0	-0.57	40	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,880	1,900	10	0.64	220	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8099	Plant and System Operators, All Other	190	200	10	4.64	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9000	Other Production Occupations	28,510	28,580	70	0.23	3,480			
51-9011	Chemical Equipment Operators and Tenders	610	620	0	0.49	70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	690	700	10	1.3	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	450	430	-10	-3.14	50	No formal educational credential	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,390	1,410	20	1.51	170	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	80	70	-10	-6.49	10	No formal educational credential	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	890	900	10	0.56	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	290	300	10	1.7	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6,200	6,050	-160	-2.5	680	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	420	420	0	-0.24	50	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	310	300	0	-0.33	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	80	80	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	340	340	0	1.49	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,420	2,480	60	2.52	310	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	2,100	2,120	10	0.67	240	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	720	740	20	3.36	90	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	130	130	0	-2.31	10	No formal educational credential	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	300	290	-10	-3.02	40	High school diploma or equivalent	None	Short-term on-the-job training
51-9191	Adhesive Bonding Machine Operators and Tenders	720	740	20	2.93	110	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	440	460	20	4.83	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9194	Etchers and Engravers	60	60	0	0	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	920	930	10	0.87	110	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,360	1,390	30	2.44	160	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9197	Tire Builders	1,370	1,300	-70	-5.24	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	3,120	3,180	60	2.02	500	High school diploma or equivalent	None	Short-term on-the-job training
51-9199	Production Workers, All Other	1,670	1,700	30	1.73	210	High school diploma or equivalent	None	Moderate-term on-the-job training
53-0000	Transportation and Material Moving Occupations	115,250	118,360	3,100	2.69	16,010			
53-1000	Supervisors of Transportation and Material Moving Workers	5,120	5,260	140	2.71	630			
53-1048	First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling	5,080	5,210	140	2.7	620	High school diploma or equivalent	Less than 5 years	None
53-2000	Air Transportation Workers	1,160	1,170	10	1.38	120			
53-2011	Airline Pilots, Copilots, and Flight Engineers	200	200	0	1.02	20	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	530	540	10	0.94	60	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2021	Air Traffic Controllers	380	390	10	1.84	40	Associate's degree	None	Long-term on-the-job training

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Code	Occupation Title	Employment		Employment		Annual Total Openings ¹	Education and Training Classification		
		2019	2021	Number	Percent		Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
53-3000	Motor Vehicle Operators	51,490	52,530	1,040	2.02	6,510			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	140	140	0	1.44	20	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	880	900	20	2.51	120	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	4,620	4,640	20	0.41	600	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	5,050	5,070	20	0.4	590	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	28,410	28,920	510	1.8	3,510	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	9,680	10,030	350	3.66	1,300	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	2,480	2,590	110	4.44	330	No formal educational credential	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	240	240	0	1.68	40	No formal educational credential	None	Short-term on-the-job training
53-4000	Rail Transportation Workers								
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	110	110	0	1.89	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6000	Other Transportation Workers	2,880	2,950	60	2.19	430			
53-6021	Parking Lot Attendants	930	950	10	1.39	150	No formal educational credential	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,110	1,130	20	1.62	180	No formal educational credential	None	Short-term on-the-job training
53-6041	Traffic Technicians	50	50	0	1.89	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6051	Transportation Inspectors	560	580	20	4.3	70	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6099	Transportation Workers, All Other	160	170	10	3.68	20	High school diploma or equivalent	None	Short-term on-the-job training
53-7000	Material Moving Workers	53,270	55,110	1,840	3.45	8,200			
53-7011	Conveyor Operators and Tenders	770	790	20	2.2	100	No formal educational credential	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	550	560	10	1.09	70	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7031	Dredge Operators	50	60	0	5.56	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	950	980	30	3.38	130	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	7,320	7,590	270	3.63	970	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	4,570	4,700	130	2.87	740	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	30,640	32,090	1,460	4.75	5,080	No formal educational credential	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	720	720	0	0	90	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	3,410	3,380	-30	-0.73	480	No formal educational credential	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	270	270	0	0	30	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	450	450	0	-0.89	50	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	1,410	1,320	-90	-6.46	120	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	1,790	1,830	40	2.18	270	No formal educational credential	None	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	260	260	10	1.95	30	No formal educational credential	None	Short-term on-the-job training

Footnotes:

¹The Bureau of Labor Statistics (BLS) has implemented a new methodology to measure occupational separations for 2019-2021 projections. For more information about the Separations methodology, visit: <https://www.bls.gov/emp/documentation/separations.htm>

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

³Indicates 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.

⁴Indicates 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 <https://www.bls.gov/emp/documentation/education-training-system.htm>

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