

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2021 - 2023

Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	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	1,729,550	1,774,580	45,030	2.60	213,330			
11-0000	Management Occupations	102,290	104,950	2,650	2.59	9,600			
11-1000	Top Executives	30,100	31,020	910	3.04	2,890			
11-1011	Chief Executives	4,300	4,260	-40	-0.84	270	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	24,860	25,800	930	3.76	2,540	Bachelor's degree	5 years or more	None
11-1031	Legislators	940	960	20	1.70	80	Bachelor's degree	Less than 5 years	None
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	4,740	4,850	110	2.26	450			
11-2011	Advertising and Promotions Managers	160	170	0	1.85	20	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,360	1,390	30	2.43	130	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	2,380	2,440	60	2.60	230	Bachelor's degree	Less than 5 years	None
11-2030	Public Relations and Fundraising Managers	840	850	10	1.07	70	Bachelor's degree	5 years or more	None
11-3000	Operations Specialties Managers	22,020	22,740	720	3.28	2,020			
11-3010	Administrative Services and Facilities Managers	6,350	6,530	180	2.85	600	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	3,770	3,860	90	2.28	320	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	6,240	6,500	260	4.17	580	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	1,690	1,750	60	3.48	150	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	510	520	10	1.76	40	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,280	1,360	80	6.41	140	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	240	250	10	2.07	20	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,530	1,560	40	2.30	140	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	410	410	10	1.47	40	Bachelor's degree	5 years or more	None
11-9000	Other Management Occupations	45,430	46,340	910	2.00	4,230			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	9,820	9,870	60	0.60	980	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	3,830	4,110	280	7.18	420	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	960	970	10	1.15	70	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	3,320	3,290	-30	-0.84	220	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	2,140	2,100	-40	-1.83	130	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	480	480	0	0.21	30	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	2,140	2,200	60	2.62	180	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	4,220	4,330	110	2.61	530	High school diploma or equivalent	Less than 5 years	None
11-9071	Gaming Managers	270	280	20	5.60	30	High school diploma or equivalent	Less than 5 years	None
11-9081	Lodging Managers	420	360	-60	-14.89	10	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	7,460	7,840	380	5.04	770	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	300	310	10	2.99	30	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	240	230	-10	-2.11	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	4,340	4,410	60	1.47	360	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1,590	1,610	20	1.45	150	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	270	270	0	1.12	20	Bachelor's degree	5 years or more	None
11-9171	Funeral Home Managers	240	240	0	-1.65	20	Associate's degree	Less than 5 years	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers	3,420	3,460	50	1.32	270	Bachelor's degree	Less than 5 years	None
13-0000	Business and Financial Operations Occupations	93,470	95,730	2,260	2.42	9,190			
13-1000	Business Operations Specialists	62,640	64,050	1,400	2.24	6,170			
13-1020	Buyers and Purchasing Agents	5,100	5,130	30	0.57	520	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,360	4,310	-50	-1.21	300	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	4,880	4,950	70	1.41	410	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	2,130	2,230	90	4.36	240	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	7,700	7,970	270	3.51	870	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	1,870	1,800	-60	-3.38	140	Bachelor's degree	Less than 5 years	None
13-1081	Logisticians	3,380	3,560	180	5.45	390	Bachelor's degree	None	None
13-1111	Management Analysts	6,730	7,040	320	4.71	780	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	1,410	1,440	20	1.63	160	Bachelor's degree	None	None
13-1131	Fundraisers	1,240	1,250	10	0.40	120	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	1,070	1,100	30	2.81	110	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	4,520	4,640	120	2.72	480	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5,360	5,630	270	5.02	670	Bachelor's degree	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Other	12,750	12,860	110	0.83	980	Bachelor's degree	None	None
13-2000	Financial Specialists	30,830	31,680	860	2.79	3,020			
13-2011	Accountants and Auditors	16,080	16,670	590	3.67	1,720	Bachelor's degree	None	None
13-2020	Property Appraisers and Assessors	1,060	1,070	10	1.23	90	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	590	590	0	0.51	50	Bachelor's degree	None	None
13-2041	Credit Analysts	920	920	0	0.33	80	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,550	1,600	60	3.69	140	Bachelor's degree	None	Long-term on-the-job training
13-2053	Insurance Underwriters	780	770	-10	-1.29	50	Bachelor's degree	None	Moderate-term on-the-job training

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13-2061	Financial Examiners	550	580	30	4.53	50	Bachelor's degree	None	Long-term on-the-job training
13-2071	Credit Counselors	440	450	10	1.59	40	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	4,320	4,360	40	0.88	350	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	370	370	0	0.00	30	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,280	1,340	60	4.77	170	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	2,890	2,960	70	2.46	250	Bachelor's degree	None	None
15-0000	Computer and Mathematical Occupations	36,740	37,930	1,190	3.24	3,220			
15-1200	Computer Occupations	34,650	35,730	1,080	3.12	3,020			
15-1211	Computer Systems Analysts	3,500	3,590	90	2.54	290	Bachelor's degree	None	None
15-1231	Computer Network Support Specialists	2,520	2,570	50	2.03	210	Associate's degree	None	None
15-1232	Computer User Support Specialists	6,590	6,740	150	2.23	550	Some college, no degree	None	None
15-1241	Computer Network Architects	1,380	1,410	30	2.03	100	Bachelor's degree	5 years or more	None
15-1244	Network and Computer Systems Administrators	2,620	2,660	40	1.68	190	Bachelor's degree	None	None
15-1245	Database Administrators and Architects	2,640	2,690	50	1.82	220	Bachelor's degree	None	None
15-1251	Computer Programmers	1,090	1,080	-10	-1.01	70	Bachelor's degree	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	9,320	9,820	500	5.34	940	Bachelor's degree	None	None
15-1257	Web Developers and Digital Interface Designers	1,000	1,030	30	2.50	90	Bachelor's degree	None	None
15-1299	Computer Occupations, All Other	2,730	2,820	90	3.18	240	Bachelor's degree	None	None
15-2000	Mathematical Science Occupations	2,090	2,200	110	5.26	200			
15-2031	Operations Research Analysts	690	740	50	6.50	70	Bachelor's degree	None	None
15-2041	Statisticians	310	330	20	5.45	30	Master's degree	None	None
15-2098	Data Scientists and Mathematical Science Occupations, All Other	1,030	1,070	50	4.47	100	Bachelor's degree	None	None
17-0000	Architecture and Engineering Occupations	27,400	28,500	1,100	4.02	2,600			
17-1000	Architects, Surveyors, and Cartographers	1,650	1,780	130	7.94	200			
17-1011	Architects, Except Landscape and Naval	770	830	60	7.84	90	Bachelor's degree	None	Internship/residency
17-1022	Surveyors	540	600	50	9.96	80	Bachelor's degree	None	Internship/residency
17-2000	Engineers	17,660	18,310	650	3.68	1,460			
17-2011	Aerospace Engineers	1,600	1,640	40	2.31	110	Bachelor's degree	None	None
17-2041	Chemical Engineers	280	290	10	3.62	20	Bachelor's degree	None	None
17-2051	Civil Engineers	1,960	2,090	130	6.63	210	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	310	320	20	4.87	30	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,710	1,770	60	3.45	140	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,870	1,910	40	2.25	140	Bachelor's degree	None	None
17-2081	Environmental Engineers	670	680	10	2.10	60	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	690	720	30	4.94	60	Bachelor's degree	None	None
17-2112	Industrial Engineers	1,940	2,040	100	5.10	170	Bachelor's degree	None	None
17-2131	Materials Engineers	270	280	10	3.72	20	Bachelor's degree	None	None
17-2141	Mechanical Engineers	1,920	1,980	70	3.50	150	Bachelor's degree	None	None
17-2171	Petroleum Engineers	1,650	1,750	100	6.06	160	Bachelor's degree	None	None
17-2199	Engineers, All Other	2,480	2,510	30	1.05	170	Bachelor's degree	None	None
17-3000	Drafters, Engineering Technicians, and Mapping Technicians	8,090	8,410	320	3.97	950			
17-3011	Architectural and Civil Drafters	1,260	1,340	70	5.78	160	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	350	360	20	4.31	40	Associate's degree	None	None
17-3013	Mechanical Drafters	760	790	30	3.54	90	Associate's degree	None	None
17-3021	Aerospace Engineering and Operations Technicians	170	170	0	0.60	20	Associate's degree	None	None
17-3022	Civil Engineering Technicians	390	410	20	4.91	50	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	1,370	1,420	50	3.64	150	Associate's degree	None	None
17-3024	Electro-Mechanical Technicians	70	70	0	0.00	10	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	530	530	10	0.95	50	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	680	690	20	2.52	70	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	320	330	10	2.17	30	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	840	890	50	5.96	130	High school diploma or equivalent	None	Moderate-term on-the-job training
17-3098	Calibration and Engineering Technologists and Technicians, Except Drafters, All Other	1,310	1,370	60	4.34	150	Associate's degree	None	None
19-0000	Life, Physical, and Social Science Occupations	11,120	11,500	380	3.44	1,250			
19-1000	Life Scientists	2,040	2,100	60	3.09	210			
19-1012	Food Scientists and Technologists	80	80	10	6.49	10	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	90	100	0	2.13	10	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	90	100	10	6.74	10	Doctoral or professional degree	None	None
19-1022	Microbiologists	140	150	10	6.94	20	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	510	520	0	0.78	50	Bachelor's degree	None	None
19-1031	Conservation Scientists	280	290	0	1.06	30	Bachelor's degree	None	None
19-1041	Epidemiologists	90	90	0	3.37	10	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	570	600	30	5.30	60	Doctoral or professional degree	None	None
19-2000	Physical Scientists	2,070	2,160	90	4.10	240			

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19-2021	Atmospheric and Space Scientists	180	180	0	0.00	20	Bachelor's degree	None	None
19-2031	Chemists	350	360	10	3.41	40	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	560	580	20	3.02	60	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	770	820	50	6.61	100	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	110	110	0	3.77	10	Bachelor's degree	None	None
19-3000	Social Scientists and Related Workers	2,050	2,080	30	1.27	160			
19-3031	Clinical, Counseling, and School Psychologists	580	590	0	0.69	40	Doctoral or professional degree	None	Internship/residency
19-3039	Psychologists, All Other	390	390	0	-0.26	30	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	250	250	10	2.03	20	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	210	210	0	0.97	20	Bachelor's degree	None	None
19-4000	Life, Physical, and Social Science Technicians	3,650	3,790	140	3.92	520			
19-4010	Agricultural and Food Science Technicians	270	270	10	3.02	40	Associate's degree	None	Moderate-term on-the-job training
19-4021	Biological Technicians	690	680	0	-0.29	80	Bachelor's degree	None	None
19-4031	Chemical Technicians	640	670	30	5.20	90	Associate's degree	None	Moderate-term on-the-job training
19-4042	Environmental Science and Protection Technicians, Including Health	320	340	20	6.23	50	Associate's degree	None	None
19-4045	Geological and Hydrologic Technicians	660	710	50	8.23	110	Associate's degree	None	Moderate-term on-the-job training
19-4061	Social Science Research Assistants	200	210	10	5.08	30	Bachelor's degree	None	None
19-4071	Forest and Conservation Technicians	110	110	0	0.89	10	Associate's degree	None	None
19-4092	Forensic Science Technicians	200	210	0	1.49	30	Bachelor's degree	None	Moderate-term on-the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	570	590	20	2.80	80	Associate's degree	None	None
19-5000	Occupational Health and Safety Specialists and Technicians	1,310	1,380	70	4.96	130			
19-5011	Occupational Health and Safety Specialists	1,210	1,270	60	4.98	120	Bachelor's degree	None	None
19-5012	Occupational Health and Safety Technicians	110	110	10	4.76	10	High school diploma or equivalent	None	Moderate-term on-the-job training
21-0000	Community and Social Service Occupations	29,320	29,560	240	0.80	2,910			
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	27,410	27,680	270	0.97	2,720			
21-1012	Educational, Guidance, School, and Vocational Counselors	4,050	4,020	-30	-0.72	360	Master's degree	None	None
21-1013	Marriage and Family Therapists	750	770	20	2.13	80	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	1,840	1,850	10	0.71	180	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	4,210	4,360	150	3.44	470	Bachelor's degree	None	None
21-1021	Child, Family, and School Social Workers	6,340	6,340	0	-0.02	580	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	2,480	2,510	30	1.01	240	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	1,360	1,370	20	1.33	130	Master's degree	None	Internship/residency
21-1029	Social Workers, All Other	510	500	0	-0.20	50	Bachelor's degree	None	None
21-1091	Health Educators	1,070	1,090	20	1.96	120	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	1,020	1,020	0	-0.20	80	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	2,030	2,060	30	1.53	250	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	740	760	20	2.97	90	High school diploma or equivalent	None	Short-term on-the-job training
21-2000	Religious Workers	1,910	1,880	-30	-1.57	190			
21-2011	Clergy	1,120	1,110	-20	-1.42	100	Bachelor's degree	None	Moderate-term on-the-job training
21-2021	Directors, Religious Activities and Education	580	570	-10	-1.57	60	Bachelor's degree	Less than 5 years	None
21-2099	Religious Workers, All Other	210	210	-10	-2.37	20	Bachelor's degree	None	None
23-0000	Legal Occupations	13,860	14,020	170	1.21	980			
23-1000	Lawyers, Judges, and Related Workers	9,520	9,590	70	0.71	480			
23-1011	Lawyers	8,380	8,460	80	0.91	430	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	70	70	0	-1.35	10	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	130	130	0	-0.77	10	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1022	Arbitrators, Mediators, and Conciliators	60	60	0	0.00	0	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	880	870	-10	-0.68	40	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	Legal Support Workers	4,330	4,430	100	2.28	500			
23-2011	Paralegals and Legal Assistants	2,760	2,810	40	1.56	320	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	1,370	1,430	60	4.16	160	High school diploma or equivalent	None	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	200	200	0	-0.50	20	Associate's degree	None	None
25-0000	Education, Training, and Library Occupations	100,700	100,110	-590	-0.59	8,330			
25-1000	Postsecondary Teachers	17,150	16,910	-240	-1.41	1,440			
25-1011	Business Teachers, Postsecondary	900	870	-30	-3.00	70	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	590	560	-30	-5.43	40	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	290	290	-10	-3.06	20	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	230	220	-10	-2.67	20	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	90	90	0	-3.41	10	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	80	80	0	-2.56	10	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	70	70	0	-1.39	10	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	120	110	0	-3.45	10	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	370	360	-10	-2.18	30	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	100	100	0	-2.94	10	Doctoral or professional degree	None	None

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25-1069	Social Sciences Teachers, Postsecondary, All Other	100	90	-10	-8.91	0	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	5,510	5,600	90	1.60	550	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	690	680	-10	-1.02	60	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	510	500	-10	-2.35	40	Doctoral or professional degree	Less than 5 years	None
25-1082	Library Science Teachers, Postsecondary	50	50	0	-3.77	0	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,040	1,020	-20	-2.31	80	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	290	270	-20	-6.16	20	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	680	650	-30	-4.70	50	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	90	90	0	-3.41	10	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	260	250	-10	-4.63	20	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	210	210	0	-1.43	20	Doctoral or professional degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	240	230	-10	-2.54	20	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	2,130	2,100	-30	-1.41	180	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	1,230	1,200	-30	-2.51	100	Doctoral or professional degree	None	None
25-2000	Preschool, Primary, Secondary, and Special Education School Teachers	52,050	51,730	-310	-0.60	3,720			
25-2011	Preschool Teachers, Except Special Education	7,040	7,160	120	1.69	770	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	1,770	1,750	-20	-0.91	170	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	16,570	16,400	-170	-1.01	1,080	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	7,480	7,400	-80	-1.00	490	Bachelor's degree	None	None
25-2023	Career/Technical Education Teachers, Middle School	160	160	0	-0.62	10	Bachelor's degree	Less than 5 years	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	13,420	13,300	-120	-0.88	840	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	850	840	-10	-1.06	50	Bachelor's degree	Less than 5 years	None
25-2051	Special Education Teachers, Preschool	100	100	0	0.00	10	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	1,960	1,940	-20	-0.97	130	Bachelor's degree	None	None
25-2057	Special Education Teachers, Middle School	890	880	-10	-1.01	60	Bachelor's degree	None	None
25-2058	Special Education Teachers, Secondary School	1,750	1,730	-20	-0.97	120	Bachelor's degree	None	None
25-2059	Special Education Teachers, All Other	60	60	0	0.00	0	Bachelor's degree	None	None
25-3000	Other Teachers and Instructors	11,020	11,090	70	0.67	1,290			
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	520	520	-10	-1.34	60	Bachelor's degree	None	None
25-3021	Self-Enrichment Education Teachers	2,660	2,720	70	2.45	340	High school diploma or equivalent	Less than 5 years	None
25-3031	Substitute Teachers, Short-Term	4,990	5,000	10	0.24	570	Bachelor's degree	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	2,850	2,850	0	0.14	320	Bachelor's degree	None	None
25-4000	Librarians, Curators, and Archivists	3,410	3,400	-20	-0.44	360			
25-4011	Archivists	130	130	0	-0.79	10	Master's degree	None	None
25-4012	Curators	130	140	0	2.26	20	Master's degree	None	None
25-4013	Museum Technicians and Conservators	190	200	10	2.60	20	Bachelor's degree	None	None
25-4022	Librarians and Media Collections Specialists	2,020	2,010	-10	-0.59	180	Master's degree	None	None
25-4031	Library Technicians	940	930	-10	-1.06	130	Postsecondary non-degree award	None	None
25-9000	Other Education, Training, and Library Occupations	17,080	16,980	-100	-0.57	1,510			
25-9031	Instructional Coordinators	2,460	2,450	-20	-0.61	220	Master's degree	5 years or more	None
25-9045	Teaching Assistants, Except Postsecondary	13,130	13,050	-80	-0.59	1,160	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	1,040	1,040	0	-0.19	100	Bachelor's degree	None	None
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	22,230	22,410	180	0.82	2,350			
27-1000	Art and Design Workers	6,870	7,030	160	2.26	720			
27-1011	Art Directors	390	390	-10	-1.28	40	Bachelor's degree	5 years or more	None
27-1012	Craft Artists	330	330	10	2.45	40	No formal educational credential	None	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	100	100	0	1.04	10	Bachelor's degree	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	300	310	10	2.30	40	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	130	130	10	4.72	20	Bachelor's degree	None	None
27-1023	Floral Designers	550	570	20	4.01	60	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	2,050	2,040	-10	-0.49	180	Bachelor's degree	None	None
27-1025	Interior Designers	720	750	30	4.74	80	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	2,010	2,090	80	4.19	230	High school diploma or equivalent	None	Short-term on-the-job training
27-2000	Entertainers and Performers, Sports and Related Workers	5,320	5,430	110	2.12	740			
27-2012	Producers and Directors	680	650	-30	-3.69	40	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	260	280	20	5.75	50	No formal educational credential	None	Long-term on-the-job training
27-2022	Coaches and Scouts	2,930	3,020	90	3.11	450	Bachelor's degree	None	None
27-2032	Choreographers	160	170	10	5.06	30	High school diploma or equivalent	5 years or more	Long-term on-the-job training
27-2041	Music Directors and Composers	270	270	0	0.74	30	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	670	670	10	0.75	80	No formal educational credential	None	Long-term on-the-job training
27-2090	Miscellaneous Entertainers and Performers, Sports and Related Workers	100	110	0	2.88	10	No formal educational credential	None	Short-term on-the-job training
27-3000	Media and Communication Workers	7,360	7,280	-80	-1.14	640			
27-3011	Radio and Television Announcers	360	330	-30	-7.24	20	Bachelor's degree	None	None
27-3023	News Analysts, Reporters, and Journalists	520	480	-40	-7.12	40	Bachelor's degree	None	None

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Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	Number	Percent	Openings ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
27-3031	Public Relations Specialists	2,800	2,820	20	0.79	270	Bachelor's degree	None	None
27-3041	Editors	910	870	-50	-4.92	60	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	790	820	20	2.64	80	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,210	1,190	-20	-1.24	110	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	680	680	0	0.15	60	Bachelor's degree	None	None
27-4000	Media and Communication Equipment Workers	2,680	2,670	0	-0.04	250			
27-4011	Audio and Video Equipment Technicians	650	680	20	3.53	80	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	210	200	-10	-6.60	10	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	100	90	0	-4.17	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,000	1,020	10	1.30	100	High school diploma or equivalent	None	Moderate-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	420	400	-10	-3.36	30	Bachelor's degree	None	None
27-4032	Film and Video Editors	220	220	0	-1.83	20	Bachelor's degree	None	None
27-4098	Lighting Technicians and Media and Communication Equipment Workers, All Other	80	80	0	-1.30	10	High school diploma or equivalent	None	Short-term on-the-job training
29-0000	Healthcare Practitioners and Technical Occupations	118,830	120,640	1,810	1.52	7,670			
29-1000	Health Diagnosing and Treating Practitioners	72,380	73,510	1,130	1.57	4,030			
29-1011	Chiropractors	660	660	10	1.37	20	Doctoral or professional degree	None	None
29-1021	Dentists, General	1,500	1,520	10	0.86	50	Doctoral or professional degree	None	None
29-1029	Dentists, All Other Specialists	70	70	0	0.00	0	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	890	900	10	1.24	70	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	830	840	10	1.21	30	Doctoral or professional degree	None	None
29-1051	Pharmacists	4,150	4,230	90	2.05	200	Doctoral or professional degree	None	None
29-1071	Physician Assistants	1,700	1,770	80	4.60	130	Master's degree	None	None
29-1081	Podiatrists	60	60	0	0.00	0	Doctoral or professional degree	None	Internship/residency
29-1122	Occupational Therapists	940	960	20	2.56	60	Master's degree	None	None
29-1123	Physical Therapists	2,350	2,420	70	2.80	130	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	340	350	0	0.87	20	Associate's degree	None	None
29-1125	Recreational Therapists	180	180	0	-0.56	10	Bachelor's degree	None	None
29-1126	Respiratory Therapists	2,070	2,140	80	3.63	140	Associate's degree	None	None
29-1127	Speech-Language Pathologists	1,710	1,770	70	3.93	140	Master's degree	None	Internship/residency
29-1128	Exercise Physiologists	390	400	0	0.77	30	Bachelor's degree	None	None
29-1129	Therapists, All Other	70	70	0	0.00	0	Bachelor's degree	None	None
29-1131	Veterinarians	1,350	1,430	80	5.69	80	Doctoral or professional degree	None	None
29-1141	Registered Nurses	39,620	40,010	390	0.98	2,260	Bachelor's degree	None	None
29-1151	Nurse Anesthetists	380	390	10	2.12	20	Master's degree	None	None
29-1171	Nurse Practitioners	2,240	2,390	150	6.89	200	Master's degree	None	None
29-1181	Audiologists	80	90	0	3.57	10	Doctoral or professional degree	None	None
29-1211	Anesthesiologists	510	500	-10	-0.99	10	Doctoral or professional degree	None	Internship/residency
29-1215	Family Medicine Physicians	1,950	1,970	20	1.08	60	Doctoral or professional degree	None	Internship/residency
29-1216	General Internal Medicine Physicians	510	510	-10	-0.98	10	Doctoral or professional degree	None	Internship/residency
29-1218	Obstetricians and Gynecologists	130	130	0	0.78	0	Doctoral or professional degree	None	Internship/residency
29-1221	Pediatricians, General	130	120	0	-1.60	0	Doctoral or professional degree	None	Internship/residency
29-1223	Psychiatrists	200	200	0	0.51	10	Doctoral or professional degree	None	Internship/residency
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	3,630	3,640	10	0.25	100	Doctoral or professional degree	None	Internship/residency
29-1248	Surgeons, Except Ophthalmologists	460	450	-10	-1.31	10	Doctoral or professional degree	None	Internship/residency
29-1292	Dental Hygienists	2,800	2,840	40	1.39	190	Associate's degree	None	None
29-1298	Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other	390	390	10	1.55	30	Master's degree	None	None
29-2000	Health Technologists and Technicians	43,830	44,460	630	1.43	3,440			
29-2010	Clinical Laboratory Technologists and Technicians	4,970	5,050	80	1.61	360	Bachelor's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	880	890	0	0.45	60	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	1,130	1,160	30	2.30	90	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	240	240	0	0.83	20	Associate's degree	None	None
29-2034	Radiologic Technologists	3,360	3,380	30	0.77	250	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	630	630	0	0.32	50	Associate's degree	Less than 5 years	None
29-2040	Emergency Medical Technicians and Paramedics	3,430	3,490	60	1.75	250	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	270	260	0	-1.13	20	Associate's degree	None	None
29-2052	Pharmacy Technicians	5,230	5,430	200	3.82	480	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	1,270	1,290	20	1.65	100	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training
29-2055	Surgical Technologists	2,220	2,240	20	0.72	170	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	950	1,000	50	4.73	90	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	340	350	10	2.05	30	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	13,730	13,800	70	0.53	1,070	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	790	810	20	2.15	70	High school diploma or equivalent	None	Long-term on-the-job training
29-2098	Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other	4,280	4,330	50	1.07	330	Postsecondary non-degree award	None	None
29-9000	Other Healthcare Practitioners and Technical Occupations	2,630	2,670	50	1.75	210			

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Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	Number	Percent	Openings ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
29-9091	Athletic Trainers	260	270	10	4.58	30	Bachelor's degree	None	None
29-9098	Health Information Technologists, Medical Registrars, Surgical Assistants, & Healthcare Practitioners,	2,340	2,380	30	1.45	180	Postsecondary non-degree award	None	None
31-0000	Healthcare Support Occupations	66,840	68,160	1,320	1.97	8,800			
31-1100	Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides	43,070	43,810	730	1.70	5,610			
31-1120	Home Health and Personal Care Aides	20,680	21,430	760	3.66	2,920	High school diploma or equivalent	None	Short-term on-the-job training
31-1131	Nursing Assistants	21,330	21,300	-30	-0.14	2,560	Postsecondary non-degree award	None	None
31-2000	Occupational Therapy and Physical Therapist Assistants and Aides	2,930	3,080	150	5.08	430			
31-2011	Occupational Therapy Assistants	660	700	40	5.28	100	Associate's degree	None	None
31-2012	Occupational Therapy Aides	70	70	0	0.00	10	High school diploma or equivalent	None	Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,510	1,600	90	5.63	230	Associate's degree	None	None
31-2022	Physical Therapist Aides	690	720	30	4.22	100	High school diploma or equivalent	None	Short-term on-the-job training
31-9000	Other Healthcare Support Occupations	20,830	21,270	440	2.09	2,760			
31-9091	Dental Assistants	4,150	4,210	60	1.40	510	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	9,480	9,680	210	2.20	1,210	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	700	700	10	0.86	90	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	620	610	-10	-1.77	80	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	920	920	0	-0.22	120	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,700	1,790	90	5.31	320	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	1,980	2,040	60	3.14	260	Postsecondary non-degree award	None	None
33-0000	Protective Service Occupations	37,630	38,340	710	1.87	4,310			
33-1000	Supervisors of Protective Service Workers	5,460	5,570	110	2.09	450			
33-1011	First-Line Supervisors of Correctional Officers	540	530	-10	-0.93	40	High school diploma or equivalent	Less than 5 years	None
33-1012	First-Line Supervisors of Police and Detectives	2,650	2,700	60	2.12	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	1,190	1,220	30	2.26	90	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1090	Miscellaneous First-Line Supervisors, Protective Service Workers	1,090	1,120	40	3.31	120	High school diploma or equivalent	Less than 5 years	None
33-2000	Fire Fighting and Prevention Workers	4,170	4,270	100	2.50	370			
33-2011	Firefighters	3,920	4,020	100	2.50	340	Postsecondary non-degree award	None	Long-term on-the-job training
33-3000	Law Enforcement Workers	13,360	13,450	90	0.69	1,140			
33-3012	Correctional Officers and Jailers	4,600	4,570	-30	-0.74	400	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	950	950	0	0.00	70	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3031	Fish and Game Wardens	190	190	0	-1.60	20	Bachelor's degree	None	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	7,520	7,650	130	1.74	640	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9000	Other Protective Service Workers	14,650	15,040	400	2.70	2,360			
33-9011	Animal Control Workers	280	290	10	2.49	30	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigators	1,360	1,420	60	4.34	210	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-9032	Security Guards	10,250	10,490	250	2.40	1,480	High school diploma or equivalent	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,020	1,080	50	5.29	290	No formal educational credential	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	280	280	0	1.43	30	High school diploma or equivalent	None	Short-term on-the-job training
33-9098	School Bus Monitors and Protective Service Workers, All Other	990	1,000	10	0.70	250	High school diploma or equivalent	None	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations	156,620	161,980	5,350	3.42	30,230			
35-1000	Supervisors of Food Preparation and Serving Workers	15,060	15,620	560	3.75	2,520			
35-1011	Chefs and Head Cooks	620	650	30	4.18	90	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	14,440	14,980	540	3.73	2,420	High school diploma or equivalent	Less than 5 years	None
35-2000	Cooks and Food Preparation Workers	55,470	57,260	1,790	3.22	9,270			
35-2011	Cooks, Fast Food	13,750	13,760	10	0.09	1,990	No formal educational credential	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	10,980	10,920	-70	-0.59	1,550	No formal educational credential	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	18,140	19,670	1,540	8.47	3,500	No formal educational credential	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	3,620	3,700	80	2.32	570	No formal educational credential	None	Short-term on-the-job training
35-2021	Food Preparation Workers	8,720	8,940	220	2.53	1,620	No formal educational credential	None	Short-term on-the-job training
35-3000	Food and Beverage Serving Workers	74,350	76,890	2,540	3.41	15,970			
35-3011	Bartenders	8,050	8,520	470	5.81	1,610	No formal educational credential	None	Short-term on-the-job training
35-3023	Fast Food and Counter Workers	39,040	40,200	1,160	2.97	8,610	No formal educational credential	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	25,900	26,790	890	3.43	5,520	No formal educational credential	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,360	1,380	20	1.40	230	No formal educational credential	None	Short-term on-the-job training
35-9000	Other Food Preparation and Serving Related Workers	11,740	12,210	460	3.95	2,480			
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,750	3,900	150	4.00	740	No formal educational credential	None	Short-term on-the-job training
35-9021	Dishwashers	3,980	4,120	130	3.34	710	No formal educational credential	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	3,880	4,060	180	4.56	1,010	No formal educational credential	None	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	120	130	0	3.31	20	No formal educational credential	None	Short-term on-the-job training
37-0000	Building and Grounds Cleaning and Maintenance Occupations	49,830	50,030	200	0.40	6,550			
37-1000	Supervisors of Building and Grounds Cleaning and Maintenance Workers	4,590	4,640	40	0.96	520			
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	2,680	2,680	0	-0.07	300	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	1,910	1,960	50	2.40	220	High school diploma or equivalent	Less than 5 years	None
37-2000	Building Cleaning and Pest Control Workers	33,260	33,020	-240	-0.71	4,270			

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Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
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37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	18,860	19,210	350	1.86	2,700	No formal educational credential	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	13,130	12,480	-640	-4.91	1,370	No formal educational credential	None	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	200	210	10	3.50	30	No formal educational credential	None	Short-term on-the-job training
37-2021	Pest Control Workers	1,080	1,130	50	4.65	170	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3000	Grounds Maintenance Workers	11,980	12,370	390	3.28	1,760			
37-3011	Landscaping and Groundskeeping Workers	10,570	10,920	340	3.22	1,550	No formal educational credential	None	Short-term on-the-job training
37-3013	Tree Trimmers and Pruners	970	1,000	40	3.63	140	High school diploma or equivalent	None	Short-term on-the-job training
39-0000	Personal Care and Service Occupations	38,830	39,940	1,100	2.84	6,030			
39-1000	Supervisors of Personal Care and Service Workers	2,730	2,830	100	3.52	340			
39-1013	First-Line Supervisors of Gambling Services Workers	920	960	40	4.44	120	High school diploma or equivalent	Less than 5 years	None
39-1098	First-Line Supervisors of Personal Service & Entertainment and Recreation Workers, Exc Gambling S	1,810	1,860	60	3.04	220	High school diploma or equivalent	Less than 5 years	None
39-2000	Animal Care and Service Workers	4,370	4,670	290	6.68	790			
39-2011	Animal Trainers	820	870	40	5.34	120	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	3,550	3,800	250	6.99	670	High school diploma or equivalent	None	Short-term on-the-job training
39-3000	Entertainment Attendants and Related Workers	4,990	5,240	250	4.95	1,070			
39-3011	Gaming Dealers	1,840	1,920	80	4.36	310	High school diploma or equivalent	None	Short-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	200	210	10	5.97	40	High school diploma or equivalent	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	930	980	50	5.39	240	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,750	1,850	100	5.42	430	No formal educational credential	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	140	140	0	2.13	30	High school diploma or equivalent	None	Short-term on-the-job training
39-4000	Funeral Service Workers	990	980	-20	-1.51	120			
39-4011	Embalmers	110	110	0	-1.75	10	Associate's degree	None	Long-term on-the-job training
39-4021	Funeral Attendants	590	580	-10	-1.71	70	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	290	290	0	-1.03	30	Associate's degree	None	Long-term on-the-job training
39-5000	Personal Appearance Workers	6,830	6,990	160	2.34	820			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	5,820	5,950	130	2.25	710	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	380	400	20	3.91	50	Postsecondary non-degree award	None	None
39-6000	Baggage Porters, Bellhops, and Concierges	1,120	1,150	30	2.76	160			
39-6011	Baggage Porters and Bellhops	450	470	20	3.33	70	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	670	690	20	2.38	100	High school diploma or equivalent	None	Moderate-term on-the-job training
39-7000	Tour and Travel Guides	280	300	10	4.24	50			
39-7010	Tour and Travel Guides	280	300	10	4.24	50	High school diploma or equivalent	None	Moderate-term on-the-job training
39-9000	Other Personal Care and Service Workers	17,520	17,790	280	1.59	2,680			
39-9011	Childcare Workers	9,220	9,190	-30	-0.36	1,250	High school diploma or equivalent	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	4,060	4,320	260	6.28	770	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	2,770	2,810	40	1.41	450	High school diploma or equivalent	None	Short-term on-the-job training
39-9041	Residential Advisors	1,010	1,020	10	0.89	150	High school diploma or equivalent	None	Short-term on-the-job training
39-9098	Crematory Operators and Personal Care and Service Workers, All Other	460	470	10	1.97	60	High school diploma or equivalent	None	Short-term on-the-job training
41-0000	Sales and Related Occupations	166,980	170,560	3,580	2.14	24,110			
41-1000	Supervisors of Sales Workers	25,350	25,740	390	1.54	2,790			
41-1011	First-Line Supervisors of Retail Sales Workers	20,290	20,690	390	1.93	2,340	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	5,060	5,060	0	-0.02	450	High school diploma or equivalent	Less than 5 years	None
41-2000	Retail Sales Workers	95,300	97,470	2,160	2.27	16,110			
41-2011	Cashiers	41,000	41,830	830	2.03	7,910	No formal educational credential	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	1,550	1,630	70	4.64	320	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	2,660	2,760	100	3.87	360	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	3,660	3,780	120	3.31	500	No formal educational credential	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	46,430	47,470	1,030	2.22	7,020	No formal educational credential	None	Short-term on-the-job training
41-3000	Sales Representatives, Services	17,860	18,190	340	1.88	2,010			
41-3011	Advertising Sales Agents	760	730	-30	-3.95	80	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5,990	6,010	20	0.27	540	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	2,280	2,330	50	2.33	220	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	230	240	10	2.99	30	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	8,600	8,890	290	3.37	1,130	High school diploma or equivalent	None	Moderate-term on-the-job training
41-4000	Sales Representatives, Wholesale and Manufacturing	14,770	15,250	480	3.27	1,700			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5,610	5,800	190	3.37	650	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	9,160	9,450	290	3.21	1,050	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9000	Other Sales and Related Workers	13,700	13,910	210	1.50	1,510			
41-9011	Demonstrators and Product Promoters	320	330	10	3.74	60	No formal educational credential	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,530	1,530	10	0.33	130	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	7,410	7,600	190	2.59	740	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9031	Sales Engineers	370	380	10	3.80	50	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	1,140	1,070	-70	-6.21	130	No formal educational credential	None	Short-term on-the-job training
43-0000	Office and Administrative Support Occupations	230,230	230,910	680	0.29	25,380			

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Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	Number	Percent	Openings ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
43-1000	Supervisors of Office and Administrative Support Workers	20,190	20,300	110	0.56	2,050			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	20,190	20,300	110	0.56	2,050	High school diploma or equivalent	Less than 5 years	None
43-2000	Communications Equipment Operators	770	730	-40	-5.20	60			
43-2011	Switchboard Operators, Including Answering Service	720	680	-40	-5.42	60	High school diploma or equivalent	None	Short-term on-the-job training
43-3000	Financial Clerks	44,710	44,930	220	0.50	4,880			
43-3011	Bill and Account Collectors	2,900	2,860	-40	-1.35	290	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	6,860	6,930	70	1.05	740	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	23,170	23,490	320	1.39	2,720	Some college, no degree	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	1,080	1,140	60	5.09	140	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,410	2,410	0	0.12	250	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,000	1,000	-10	-0.60	90	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	7,170	6,990	-180	-2.57	640	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	110	120	0	1.77	10	High school diploma or equivalent	None	Short-term on-the-job training
43-4000	Information and Record Clerks	63,990	63,840	-150	-0.23	7,640			
43-4011	Brokerage Clerks	260	270	0	0.76	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	3,170	3,240	80	2.46	360	High school diploma or equivalent	None	Long-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	380	380	0	0.00	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4051	Customer Service Representatives	31,750	31,880	140	0.43	4,070	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	430	440	10	1.39	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,660	1,650	-20	-0.96	180	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	2,310	1,970	-340	-14.87	180	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	2,700	2,670	-30	-1.04	310	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,540	1,530	-10	-0.65	230	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	3,800	3,810	10	0.24	340	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	1,580	1,540	-40	-2.41	130	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	1,450	1,430	-20	-1.51	140	Some college, no degree	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	830	830	0	-0.12	80	Associate's degree	None	None
43-4171	Receptionists and Information Clerks	9,530	9,550	20	0.21	1,200	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,930	1,970	50	2.39	230	High school diploma or equivalent	None	Short-term on-the-job training
43-5000	Material Recording, Scheduling, Dispatching, and Distributing Workers	28,060	28,940	880	3.12	3,050			
43-5011	Cargo and Freight Agents	590	660	80	12.78	100	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	2,060	2,290	230	11.16	320	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	1,770	1,810	40	1.98	180	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,130	2,260	140	6.49	270	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	390	390	0	-0.77	30	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	1,030	1,010	-20	-2.04	70	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	3,950	3,870	-90	-2.15	230	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	740	710	-20	-3.12	50	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	6,390	6,610	220	3.43	760	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	8,430	8,700	270	3.23	950	High school diploma or equivalent	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	590	630	40	6.63	80	High school diploma or equivalent	None	Short-term on-the-job training
43-6000	Secretaries and Administrative Assistants	42,970	42,530	-440	-1.02	4,350			
43-6011	Executive Secretaries and Executive Administrative Assistants	7,950	7,690	-270	-3.33	700	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	1,260	1,200	-60	-4.93	100	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	9,760	9,920	160	1.67	1,130	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,010	23,730	-270	-1.14	2,410	High school diploma or equivalent	None	Short-term on-the-job training
43-9000	Other Office and Administrative Support Workers	29,550	29,630	90	0.29	3,360			
43-9021	Data Entry Keyers	1,890	1,830	-60	-3.07	170	High school diploma or equivalent	None	Short-term on-the-job training
43-9022	Word Processors and Typists	70	60	-10	-8.70	10	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	130	130	-10	-4.48	10	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,850	1,830	-20	-0.92	160	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,120	1,120	0	0.18	130	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	22,730	22,890	170	0.74	2,680	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	470	460	-10	-1.07	50	High school diploma or equivalent	None	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	80	70	0	-5.33	10	Bachelor's degree	None	None
43-9111	Statistical Assistants	180	180	0	-0.56	20	Bachelor's degree	None	None
43-9199	Office and Administrative Support Workers, All Other	1,040	1,050	10	1.25	120	High school diploma or equivalent	None	Short-term on-the-job training
45-0000	Farming, Fishing, and Forestry Occupations	12,600	12,790	200	1.55	2,070			
45-1000	Supervisors of Farming, Fishing, and Forestry Workers	710	730	20	2.25	110			
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	710	730	20	2.25	110	High school diploma or equivalent	Less than 5 years	None
45-2000	Agricultural Workers	11,480	11,650	170	1.46	1,890			
45-2011	Agricultural Inspectors	440	450	10	2.28	80	Bachelor's degree	None	Moderate-term on-the-job training
45-2021	Animal Breeders	190	190	10	3.19	30	High school diploma or equivalent	None	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	360	360	0	-0.28	50	No formal educational credential	None	Short-term on-the-job training

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Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	Number	Percent	Openings ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
45-2091	Agricultural Equipment Operators	1,220	1,270	60	4.52	220	No formal educational credential	None	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	4,210	4,230	30	0.59	670	No formal educational credential	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	4,980	5,050	70	1.43	820	No formal educational credential	None	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	90	100	0	2.15	20	No formal educational credential	None	Short-term on-the-job training
45-4000	Forest, Conservation, and Logging Workers	390	400	10	2.85	70			
45-4021	Fallers	100	100	0	1.05	20	High school diploma or equivalent	None	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	240	250	10	3.35	40	High school diploma or equivalent	None	Moderate-term on-the-job training
47-0000	Construction and Extraction Occupations	87,270	93,830	6,560	7.52	12,360			
47-1000	Supervisors of Construction and Extraction Workers	11,160	12,010	840	7.55	1,500			
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	11,160	12,010	840	7.55	1,500	High school diploma or equivalent	5 years or more	None
47-2000	Construction Trades Workers	56,210	59,490	3,270	5.82	7,240			
47-2011	Boilermakers	80	90	10	7.41	10	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	470	490	20	4.47	60	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	240	250	10	4.62	30	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	7,110	7,460	350	4.93	840	High school diploma or equivalent	None	Apprenticeship
47-2041	Carpet Installers	340	350	10	3.53	40	No formal educational credential	None	Short-term on-the-job training
47-2044	Tile and Marble Setters	300	320	20	5.59	30	No formal educational credential	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2,690	2,830	150	5.55	320	No formal educational credential	None	Moderate-term on-the-job training
47-2061	Construction Laborers	11,080	11,880	800	7.21	1,510	No formal educational credential	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,200	1,280	80	6.68	170	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	6,550	6,930	380	5.72	890	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	410	440	20	5.33	50	No formal educational credential	None	Moderate-term on-the-job training
47-2111	Electricians	7,750	8,250	500	6.43	1,070	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	230	250	20	7.39	30	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	390	420	30	6.41	50	No formal educational credential	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	420	450	30	6.19	50	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	2,920	3,050	120	4.25	320	No formal educational credential	None	Moderate-term on-the-job training
47-2142	Paperhangers	120	110	0	-2.59	10	No formal educational credential	None	Long-term on-the-job training
47-2151	Pipelayers	820	870	50	5.60	110	No formal educational credential	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	6,160	6,560	400	6.50	840	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	1,060	1,120	70	6.34	140	No formal educational credential	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,680	3,780	100	2.72	390	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	1,400	1,490	90	6.35	190	High school diploma or equivalent	None	Apprenticeship
47-3000	Helpers, Construction Trades	3,310	3,510	210	6.20	500			
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	240	250	10	4.55	40	No formal educational credential	None	Short-term on-the-job training
47-3013	Helpers--Electricians	1,100	1,170	70	6.07	170	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,090	1,160	70	6.82	170	High school diploma or equivalent	None	Short-term on-the-job training
47-4000	Other Construction and Related Workers	8,430	8,740	310	3.63	1,080			
47-4011	Construction and Building Inspectors	2,280	2,380	100	4.21	310	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4021	Elevator Installers and Repairers	240	260	20	6.56	30	High school diploma or equivalent	None	Apprenticeship
47-4031	Fence Erectors	320	340	20	6.27	40	No formal educational credential	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	500	520	10	2.78	70	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3,210	3,290	80	2.40	370	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	250	260	10	3.60	30	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	960	990	30	3.33	130	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4090	Miscellaneous Construction and Related Workers	670	710	40	6.31	100	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5000	Extraction Workers	8,150	10,080	1,930	23.72	2,040			
47-5011	Derrick Operators, Oil and Gas	390	520	130	34.10	120	No formal educational credential	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	1,550	1,990	440	28.33	430	No formal educational credential	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	1,800	2,230	430	23.79	450	No formal educational credential	None	Moderate-term on-the-job training
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	480	500	20	4.57	70	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	70	70	0	5.88	10	No formal educational credential	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	2,630	3,380	750	28.55	730	No formal educational credential	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	220	300	80	34.84	70	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5097	Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blaster:	710	750	40	5.34	100	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	190	30	16.17	40	High school diploma or equivalent	None	Moderate-term on-the-job training
49-0000	Installation, Maintenance, and Repair Occupations	80,150	82,920	2,770	3.46	9,050			
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	7,230	7,490	260	3.54	780			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	7,230	7,490	260	3.54	780	High school diploma or equivalent	Less than 5 years	None
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	7,820	8,040	220	2.83	870			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,240	1,260	10	1.05	140	Some college, no degree	None	Short-term on-the-job training
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	250	260	10	2.82	30	Associate's degree	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,930	1,970	40	2.18	240	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	640	660	20	3.11	60	Associate's degree	None	None

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2021 - 2023

Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	Number	Percent	Openings ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
49-2092	Electric Motor, Power Tool, and Related Repairers	380	400	30	6.61	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	1,130	1,180	40	3.80	110	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	550	560	10	1.08	50	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	1,390	1,460	70	4.90	180	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	24,690	25,550	860	3.49	2,820			
49-3011	Aircraft Mechanics and Service Technicians	4,380	4,480	100	2.28	410	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	2,040	2,100	60	2.74	220	High school diploma or equivalent	None	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	110	110	0	3.77	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	8,420	8,610	190	2.28	930	Postsecondary non-degree award	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,620	3,860	240	6.74	460	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	600	630	30	5.01	80	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,090	2,220	130	6.02	270	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	210	210	0	0.49	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	210	220	10	5.37	30	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	190	190	10	3.19	20	Postsecondary non-degree award	None	Short-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	620	640	30	4.55	80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	310	320	20	4.89	40	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,910	1,960	50	2.57	240	High school diploma or equivalent	None	Short-term on-the-job training
49-9000	Other Installation, Maintenance, and Repair Occupations	40,420	41,850	1,430	3.54	4,580			
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,330	1,360	30	2.18	120	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,480	4,720	240	5.26	550	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	460	470	20	3.74	50	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	4,170	4,460	300	7.15	510	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	4,190	4,400	210	4.89	480	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	200	220	20	8.00	30	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	1,840	1,910	70	3.85	200	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,330	1,370	40	3.16	170	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	500	510	20	3.64	60	Associate's degree	None	Moderate-term on-the-job training
49-9063	Musical Instrument Repairers and Tuners	180	180	0	2.27	20	High school diploma or equivalent	None	Apprenticeship
49-9069	Precision Instrument and Equipment Repairers, All Other	150	150	0	0.67	20	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,360	16,560	200	1.24	1,640	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9081	Wind Turbine Service Technicians	220	270	50	21.08	50	Postsecondary non-degree award	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	930	950	20	2.04	120	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	120	120	0	-0.86	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	100	110	10	5.77	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9096	Riggers	240	270	30	10.88	40	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9097	Signal and Track Switch Repairers	140	140	0	0.73	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	1,580	1,670	90	5.44	250	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,170	1,230	60	4.77	150	High school diploma or equivalent	None	Moderate-term on-the-job training
51-0000	Production Occupations	103,330	105,780	2,450	2.37	12,540			
51-1000	Supervisors of Production Workers	8,760	9,050	290	3.36	1,010			
51-1011	First-Line Supervisors of Production and Operating Workers	8,760	9,050	290	3.36	1,010	High school diploma or equivalent	Less than 5 years	None
51-2000	Assemblers and Fabricators	17,540	17,780	240	1.35	2,020			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	570	570	-10	-1.05	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	270	270	0	-1.46	30	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	3,020	3,200	180	5.99	420	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2031	Engine and Other Machine Assemblers	830	800	-20	-2.66	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,090	1,100	10	1.01	120	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2090	Miscellaneous Assemblers and Fabricators	11,510	11,580	70	0.62	1,300	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3000	Food Processing Workers	8,470	8,690	230	2.66	1,170			
51-3011	Bakers	1,750	1,830	80	4.56	270	No formal educational credential	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	1,290	1,330	40	2.71	170	No formal educational credential	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,470	1,500	20	1.63	180	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	1,150	1,180	30	2.70	150	No formal educational credential	None	Short-term on-the-job training
51-3092	Food Batchmakers	1,320	1,340	20	1.82	170	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	700	710	10	1.57	130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4000	Metal Workers and Plastic Workers	24,400	25,470	1,070	4.39	3,100			
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	740	750	10	1.48	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	280	280	0	-0.71	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	220	240	20	7.27	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	1,790	1,840	50	2.91	210	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	100	100	0	4.21	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 Tenders, Metal and P	1,170	1,230	60	4.97	170	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 Plastic	530	530	0	0.76	60	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation		Employment		Employment Change		Annual Total		Education and Training Classification	
Code	Title	2021	2023	Number	Percent	Openings ¹	Typical Entry-Level Education ²	Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	140	140	0	1.48	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	3,590	3,770	180	5.07	460	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	100	110	10	7.69	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	330	330	10	2.46	40	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	1,390	1,410	30	2.09	150	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,180	2,270	90	4.32	270	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	310	320	10	3.58	40	Postsecondary non-degree award	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	9,810	10,360	560	5.68	1,340	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	350	350	10	1.73	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	390	390	10	1.55	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4192	Layout Workers, Metal and Plastic	80	80	0	0.00	10	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	540	20	3.08	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	160	160	0	-0.63	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5100	Printing Workers	1,810	1,730	-80	-4.21	160			
51-5111	Prepress Technicians and Workers	140	130	-10	-7.14	10	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,440	1,380	-60	-4.37	120	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	220	220	0	-1.35	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6000	Textile, Apparel, and Furnishings Workers	4,890	4,830	-70	-1.33	570			
51-6011	Laundry and Dry-Cleaning Workers	2,980	2,950	-30	-0.91	380	No formal educational credential	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	400	380	-20	-3.78	30	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	730	710	-20	-2.72	70	No formal educational credential	None	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	110	110	0	-1.82	10	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	110	110	0	2.83	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	190	190	10	2.65	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	210	200	-10	-5.69	20	High school diploma or equivalent	None	Short-term on-the-job training
51-7000	Woodworkers	2,500	2,580	80	3.08	290			
51-7011	Cabinetmakers and Bench Carpenters	1,660	1,680	30	1.57	170	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	120	130	10	4.13	20	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	290	310	20	7.93	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	230	250	20	6.47	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8000	Plant and System Operators	5,320	5,350	30	0.60	530			
51-8013	Power Plant Operators	300	300	0	-1.00	30	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	270	270	0	0.37	30	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	2,190	2,210	10	0.59	200	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	130	140	10	5.43	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8092	Gas Plant Operators	500	500	-10	-0.99	50	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,800	1,820	20	1.11	190	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8099	Plant and System Operators, All Other	80	80	0	-1.32	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9000	Other Production Occupations	29,650	30,300	650	2.21	3,690			
51-9011	Chemical Equipment Operators and Tenders	840	870	30	3.71	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	430	440	10	2.55	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	500	510	10	1.81	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	310	310	0	1.31	40	No formal educational credential	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,270	1,300	40	2.76	160	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	110	100	-10	-7.48	10	No formal educational credential	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	620	630	20	2.76	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	800	820	20	2.36	90	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	4.14	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	6,930	6,930	0	0.03	820	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	330	320	-10	-3.29	30	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	310	310	0	-0.64	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	90	90	0	1.08	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	210	220	10	3.35	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,450	2,510	60	2.41	300	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	90	90	0	1.08	10	No formal educational credential	None	Moderate-term on-the-job training
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	2,440	2,580	140	5.79	320	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	80	80	0	-2.60	10	High school diploma or equivalent	None	Short-term on-the-job training
51-9161	Computer Numerically Controlled Tool Operators	3,610	3,710	100	2.69	440	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9162	Computer Numerically Controlled Tool Programmers	370	410	30	8.58	60	Postsecondary non-degree award	None	Moderate-term on-the-job training
51-9191	Adhesive Bonding Machine Operators and Tenders	170	180	0	1.73	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	480	490	20	3.35	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	510	540	30	5.48	70	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,020	1,040	20	2.26	130	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	2,390	2,450	60	2.47	370	High school diploma or equivalent	None	Short-term on-the-job training

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2021 - 2023

Code	Occupation Title	Employment		Employment Change		Annual Total Openings ¹	Education and Training Classification Work Experience in a Related Occupation ³	Typical on-the-job Training ⁴	
		2021	2023	Number	Percent				Typical Entry-Level Education ²
51-9199	Production Workers, All Other	1,210	1,240	30	2.40	150	High school diploma or equivalent	None	Moderate-term on-the-job training
53-0000	Transportation and Material Moving Occupations	143,270	154,010	10,730	7.49	23,820			
53-1000	Supervisors of Transportation and Material Moving Workers	7,070	7,620	550	7.77	1,050			
53-1041	Aircraft Cargo Handling Supervisors	60	70	10	15.25	10	High school diploma or equivalent	Less than 5 years	None
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Super	7,010	7,550	540	7.70	1,040	High school diploma or equivalent	Less than 5 years	None
53-2000	Air Transportation Workers	1,130	1,170	30	2.92	130			
53-2011	Airline Pilots, Copilots, and Flight Engineers	270	270	0	1.51	30	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	440	450	10	2.73	50	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2021	Air Traffic Controllers	370	390	10	3.48	40	Associate's degree	None	Long-term on-the-job training
53-3000	Motor Vehicle Operators	51,710	56,270	4,560	8.81	8,230			
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	200	200	0	1.02	20	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	5,810	6,150	340	5.83	820	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	26,610	28,910	2,310	8.66	4,170	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	11,430	13,260	1,840	16.10	2,260	High school diploma or equivalent	None	Short-term on-the-job training
53-3052	Bus Drivers, Transit and Intercity	720	740	20	2.07	90	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	6,350	6,380	30	0.44	750	No formal educational credential	None	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	590	620	30	5.08	110	No formal educational credential	None	Short-term on-the-job training
53-4000	Rail Transportation Workers	920	920	0	0.00	80			
53-4011	Locomotive Engineers	400	390	0	-0.51	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	160	160	0	1.24	20	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6000	Other Transportation Workers	3,420	3,510	90	2.72	510			
53-6021	Parking Lot Attendants	760	760	10	0.79	120	No formal educational credential	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,570	1,630	50	3.43	240	No formal educational credential	None	Short-term on-the-job training
53-6041	Traffic Technicians	50	50	0	1.92	10	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6051	Transportation Inspectors	700	710	20	2.45	80	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6098	Aircraft Service Attendants and Transportation Workers, All Other	270	280	10	5.22	40	High school diploma or equivalent	None	Short-term on-the-job training
53-7000	Material Moving Workers	78,990	84,490	5,500	6.96	13,810			
53-7011	Conveyor Operators and Tenders	520	560	40	7.35	80	No formal educational credential	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	650	690	40	6.64	90	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	8,040	8,540	500	6.23	1,140	No formal educational credential	None	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	4,460	4,630	170	3.83	710	No formal educational credential	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	33,000	36,060	3,060	9.26	6,040	No formal educational credential	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	320	340	20	6.23	50	No formal educational credential	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	3,780	3,870	90	2.30	570	No formal educational credential	None	Short-term on-the-job training
53-7065	Stockers and Order Fillers	23,810	25,110	1,310	5.48	4,430	High school diploma or equivalent	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	230	220	-10	-3.86	20	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	690	760	70	10.50	120	High school diploma or equivalent	None	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	890	1,000	110	12.75	160	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	2,140	2,210	70	3.13	320	No formal educational credential	None	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	250	250	10	2.03	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.