

TULSA Workforce Investment Area Occupational Projections 2010-2020

Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma Median Annual Wage	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent					
00-0000	Total Occupations	380,650	425,900	45,250	11.1%	137,420	\$30,049			
11-1011	Chief Executives	1,630	1,660	40	2.3%	460	\$120,330	Bachelor's degree	More than 5 years	None
11-1021	General and Operations Managers	7,260	7,400	140	1.9%	1,490	\$73,939	Associate's degree	1 to 5 years	None
11-1031	Legislators	50	50	0	6.7%	10	\$24,632	Bachelor's degree	1 to 5 years	None
11-2021	Marketing Managers	520	560	50	8.7%	200	\$75,900	Bachelor's degree	1 to 5 years	None
11-2022	Sales Managers	860	930	70	7.5%	320	\$81,912	Bachelor's degree	1 to 5 years	None
11-3011	Administrative Services Managers	940	1,050	110	11.4%	340	\$56,869	High school diploma or equivalent	1 to 5 years	None
11-3021	Computer and Information Systems Managers	480	520	40	8.3%	110	\$88,347	Bachelor's degree	More than 5 years	None
11-3031	Financial Managers	1,400	1,480	70	5.3%	330	\$79,967	Bachelor's degree	More than 5 years	None
11-3051	Industrial Production Managers	520	610	90	17.1%	210	\$76,160	Bachelor's degree	1 to 5 years	None
11-3061	Purchasing Managers	180	190	10	5.6%	60	\$74,016	Bachelor's degree	More than 5 years	None
11-3071	Transportation, Storage, and Distribution Managers	340	360	20	5.9%	100	\$70,766	High school diploma or equivalent	More than 5 years	None
11-3111	Compensation and Benefits Managers	190	190	0	1.6%	50	\$63,742	Bachelor's degree	1 to 5 years	None
11-3121	Human Resources Managers	280	310	30	12.2%	100	\$60,510	Bachelor's degree	1 to 5 years	None
11-3131	Training and Development Managers	160	180	20	11.3%	60	\$54,207	Bachelor's degree	1 to 5 years	None
11-9021	Construction Managers	1,370	1,460	90	6.8%	180	\$68,913	Associate's degree	More than 5 years	None
11-9031	Education Administrators, Preschool and Child Care Center/Program	160	190	30	19.4%	70	\$34,266	Bachelor's degree	1 to 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	560	630	70	12.4%	230	\$68,383	Master's degree	1 to 5 years	None
11-9033	Education Administrators, Postsecondary	200	250	40	21.7%	100	\$70,731	Master's degree	1 to 5 years	None
11-9041	Engineering Managers	380	410	30	6.5%	100	\$104,565	Bachelor's degree	More than 5 years	None
11-9051	Food Service Managers	850	830	-20	-2.0%	160	\$39,420	High school diploma or equivalent	1 to 5 years	None
11-9111	Medical and Health Services Managers	1,400	1,630	230	16.1%	570	\$71,061	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	50	50	0	2.1%	30	\$100,223	Bachelor's degree	More than 5 years	None
11-9131	Postmasters and Mail Superintendents	50	30	-10	-30.4%	10	\$57,468	High school diploma or equivalent	1 to 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	1,700	1,720	30	1.5%	380	\$39,277	High school diploma or equivalent	1 to 5 years	None
11-9151	Social and Community Service Managers	200	250	50	23.6%	90	\$49,842	Bachelor's degree	1 to 5 years	None
11-9199	Managers, All Other	460	460	0	0.9%	110	\$89,165	High school diploma or equivalent	1 to 5 years	None
13-1022	Wholesale and Retail Buyers, Except Farm Products	420	430	10	2.2%	110	\$40,692	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1,030	1,110	80	7.5%	350	\$54,468	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	640	660	20	3.1%	180	\$50,416	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	380	450	60	16.1%	110	\$42,999	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	520	640	120	23.1%	220	\$52,398	Bachelor's degree	None	None

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13-1078	Human resources, labor relations, and training specialists, all other	1,160	1,550	390	34.0%	590	\$46,535	Bachelor's degree	None	None
13-1081	Logisticians	240	310	70	29.0%	120	\$69,655	Bachelor's degree	1 to 5 years	None
13-1111	Management Analysts	1,270	1,470	200	15.8%	410	\$63,858	Bachelor's degree	1 to 5 years	None
13-1121	Meeting and Convention Planners	150	200	50	35.6%	80	\$38,042	Bachelor's degree	Less than 1 year	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	470	540	60	13.6%	140	\$47,399	Bachelor's degree	None	None
13-1151	Training and Development Specialists	1,070	1,400	320	30.2%	510	\$47,755	Bachelor's degree	None	None
13-1161	Market Research Analysts and Marketing Specialists	640	850	210	32.9%	380	\$48,395	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	1,030	1,100	60	6.0%	260	\$64,177	High school diploma or equivalent	Less than 1 year	Long-term on-the-job training
13-2011	Accountants and Auditors	5,000	5,470	470	9.4%	1,540	\$51,296	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	170	190	10	8.1%	50	\$34,793	High school diploma or equivalent	None	Apprenticeship
13-2031	Budget Analysts	80	90	10	14.7%	30	\$59,983	Bachelor's degree	None	None
13-2051	Financial Analysts	320	360	40	13.4%	110	\$60,957	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	270	350	80	29.7%	110	\$54,479	Bachelor's degree	None	None
13-2053	Insurance Underwriters	360	380	20	5.8%	140	\$51,491	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	120	140	20	15.1%	40	\$66,889	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	1,020	1,160	140	13.9%	400	\$42,316	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2081	Tax Examiners, Collectors, and Revenue Agents	130	140	10	4.7%	40	\$37,908	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	380	380	-10	-1.8%	90	\$26,772	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	30	30	0	0.0%	10	\$59,995	Bachelor's degree	None	Moderate-term on-the-job training
15-1121	Computer Systems Analysts	1,180	1,290	110	9.4%	330	\$64,448	Bachelor's degree	None	None
15-1131	Computer Programmers	810	820	10	1.7%	200	\$57,093	Bachelor's degree	None	None
15-1132	Software Developers, Applications	830	960	140	16.7%	220	\$65,853	Bachelor's degree	None	None
15-1141	Database Administrators	210	250	40	21.0%	80	\$59,441	Bachelor's degree	1 to 5 years	None
15-1142	Network and computer systems architects and administrators	600	710	110	17.5%	210	\$54,887	Bachelor's degree	None	None
15-1150	Computer Support Specialists	2,080	2,330	250	11.9%	800	\$38,900	Some college, no degree	None	Moderate-term on-the-job training
15-1179	Information Security Analysts, Web Developers, and Computer Network Architects	510	580	70	14.7%	150	\$59,373	Bachelor's degree	1 to 5 years	None
15-1799	Computer Occupations, All Other	210	210	0	1.9%	40	\$76,661	Bachelor's degree	None	None
15-2031	Operations Research Analysts	160	180	20	10.6%	70	\$70,596	Bachelor's degree	None	None
15-2041	Statisticians	60	60	10	10.5%	40	\$46,979	Master's degree	None	None
17-1011	Architects, Except Landscape and Naval	250	280	30	12.7%	80	\$64,810	Bachelor's degree	None	Internship/residency
17-1022	Surveyors	150	170	20	11.3%	50	\$47,318	Bachelor's degree	None	None
17-2041	Chemical Engineers	40	40	0	0.0%	10	\$80,687	Bachelor's degree	None	None

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17-2051	Civil Engineers	800	870	70	8.9%	230	\$74,354	Bachelor's degree	None	None
17-2071	Electrical Engineers	640	670	30	4.2%	180	\$74,872	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	240	260	20	7.1%	70	\$87,804	Bachelor's degree	None	None
17-2081	Environmental Engineers	100	110	10	6.1%	30	\$70,810	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	120	130	10	10.9%	40	\$68,641	Bachelor's degree	None	None
17-2112	Industrial Engineers	420	450	30	8.1%	130	\$71,012	Bachelor's degree	None	None
17-2141	Mechanical Engineers	640	680	40	6.4%	250	\$74,393	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	40	50	10	11.9%	10	\$118,563	Bachelor's degree	None	None
17-2171	Petroleum Engineers	720	840	120	16.4%	280	\$127,542	Bachelor's degree	None	None
17-2199	Engineers, All Other	350	360	10	2.5%	90	\$87,615	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	370	360	0	-1.1%	70	\$45,796	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	120	120	0	-3.2%	20	\$47,873	Associate's degree	None	None
17-3013	Mechanical Drafters	400	440	40	9.9%	120	\$48,308	Associate's degree	None	None
17-3019	Drafters, All Other	30	30	0	-5.9%	10	\$41,623	Associate's degree	None	None
17-3022	Civil Engineering Technicians	230	250	20	7.5%	60	\$39,591	Associate's degree	None	None
17-3023	Electrical and Electronic Engineering Technicians	280	270	-10	-2.5%	50	\$56,586	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	60	60	10	12.7%	20	\$43,052	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	130	140	10	9.3%	40	\$59,275	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	80	80	0	1.3%	20	\$43,192	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	170	170	0	-0.6%	30	\$56,111	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	120	120	10	4.2%	30	\$31,971	High school diploma or equivalent	None	Moderate-term on-the-job training
19-1029	Biological Scientists, All Other	60	60	0	-5.0%	10	\$67,834	Doctoral or professional degree	None	None
19-2021	Atmospheric and Space Scientists	70	70	0	0.0%	10	\$90,618	Bachelor's degree	None	None
19-2031	Chemists	100	100	0	1.0%	30	\$65,584	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	90	90	0	3.5%	30	\$46,618	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	110	130	20	15.6%	50	\$146,853	Bachelor's degree	None	None
19-3011	Economists	30	30	0	10.0%	10	\$64,538	Bachelor's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	280	330	50	18.7%	140	\$47,804	Doctoral or professional degree	None	Internship/residency
19-4041	Geological and Petroleum Technicians	120	130	10	8.1%	50	\$49,141	Associate's degree	None	Moderate-term on-the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	30	30	0	-6.7%	10	\$32,653	Associate's degree	None	Moderate-term on-the-job training
21-1011	Substance Abuse and Behavioral Disorder Counselors	220	260	50	21.4%	90	\$38,278	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Vocational, and School Counselors	530	640	110	20.0%	220	\$42,035	Master's degree	None	None

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21-1014	Mental Health Counselors	380	480	110	29.1%	190	\$42,144	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	540	660	120	22.9%	240	\$25,634	Master's degree	None	None
21-1019	Counselors, All Other	30	40	10	24.2%	20	\$38,259	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	650	730	90	13.2%	240	\$31,223	Bachelor's degree	None	None
21-1022	Medical and Public Health Social Workers	230	290	60	27.5%	120	\$42,061	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	180	230	50	25.3%	90	\$31,831	Bachelor's degree	None	None
21-1029	Social Workers, All Other	100	110	10	8.8%	30	\$42,879	Bachelor's degree	None	None
21-1091	Health Educators	170	240	70	41.4%	110	\$46,727	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	100	140	30	30.8%	60	\$36,958	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	550	680	130	22.6%	240	\$25,219	High school diploma or equivalent	None	Short-term on-the-job training
21-2011	Clergy	80	100	20	22.6%	30	\$39,739	Bachelor's degree	None	Moderate-term on-the-job training
23-1011	Lawyers	1,870	1,860	0	-0.1%	360	\$78,167	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	30	30	0	3.0%	10	\$70,891	Bachelor's degree	1 to 5 years	Moderate-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	60	60	10	10.7%	20	\$118,703	Doctoral or professional degree	More than 5 years	Short-term on-the-job training
23-2011	Paralegals and Legal Assistants	710	740	40	5.0%	140	\$38,221	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	290	270	-20	-5.6%	40	\$36,231	High school diploma or equivalent	None	Short-term on-the-job training
25-1011	Business Teachers, Postsecondary	110	130	20	20.9%	40	\$56,129	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	60	70	10	19.7%	20	\$60,148	Doctoral or professional degree	None	None
25-1072	Nursing Instructors and Teachers, Postsecondary	80	100	20	20.2%	30	\$57,612	Master's degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	80	100	20	24.4%	30	\$52,728	Doctoral or professional degree	None	None
25-1122	Communications Teachers, Postsecondary	60	70	10	20.0%	20	\$48,293	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	80	90	10	18.2%	30	\$52,899	Doctoral or professional degree	None	None
25-1124	Foreign Language and Literature Teachers, Postsecondary	50	70	10	22.6%	20	\$49,328	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	50	60	10	22.0%	20	\$48,795	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	380	460	80	21.0%	140	\$52,170	Bachelor's degree	1 to 5 years	None
25-2011	Preschool Teachers, Except Special Education	910	1,090	180	19.8%	420	\$23,399	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	490	590	100	20.0%	230	\$38,520	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Education	3,630	4,350	720	19.8%	1,520	\$41,319	Bachelor's degree	None	Internship/residency
25-2022	Middle School Teachers, Except Special and Vocational Education	1,490	1,790	300	19.9%	630	\$41,757	Bachelor's degree	None	Internship/residency
25-2031	Secondary School Teachers, Except Special and Vocational Education	2,000	2,190	190	9.7%	740	\$42,862	Bachelor's degree	None	Internship/residency
25-2032	Vocational Education Teachers, Secondary School	140	140	10	3.7%	40	\$46,687	Bachelor's degree	1 to 5 years	Internship/residency
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	470	580	110	24.3%	250	\$42,806	Bachelor's degree	None	Internship/residency

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25-2053	Special Education Teachers, Middle School	200	240	50	22.7%	100	\$43,789	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	310	340	30	9.8%	120	\$44,638	Bachelor's degree	None	Internship/residency
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	120	140	20	14.0%	40	\$44,760	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	500	620	120	23.7%	200	\$38,081	High school diploma or equivalent	1 to 5 years	None
25-3999	Teachers and Instructors, All Other	2,330	2,680	350	15.0%	710	\$18,777	Bachelor's degree	None	None
25-4021	Librarians	290	320	30	11.0%	110	\$43,803	Master's degree	None	None
25-4031	Library Technicians	280	310	40	13.8%	160	\$20,337	Postsecondary non-degree award	None	None
25-9031	Instructional Coordinators	280	340	60	22.4%	130	\$56,059	Master's degree	More than 5 years	None
25-9041	Teacher Assistants	2,520	2,920	400	15.9%	970	\$18,706	High school diploma or equivalent	None	Short-term on-the-job training
27-1011	Art Directors	90	100	0	1.1%	20	\$70,021	Bachelor's degree	1 to 5 years	None
27-1014	Multi-Media Artists and Animators	50	40	0	-4.3%	10	\$49,397	Bachelor's degree	None	Moderate-term on-the-job training
27-1021	Commercial and Industrial Designers	290	310	20	7.3%	110	\$63,199	Bachelor's degree	None	None
27-1023	Floral Designers	220	210	-10	-3.7%	70	\$20,990	High school diploma or equivalent	None	Short-term on-the-job training
27-1024	Graphic Designers	510	550	40	7.8%	200	\$33,786	Bachelor's degree	None	None
27-1025	Interior Designers	150	160	10	8.6%	60	\$38,406	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	70	80	0	5.6%	30	\$23,979	High school diploma or equivalent	None	Moderate-term on-the-job training
27-2012	Producers and Directors	300	320	20	5.9%	110	\$42,184	Bachelor's degree	1 to 5 years	None
27-2022	Coaches and Scouts	320	430	110	34.5%	190	\$23,660	High school diploma or equivalent	None	Long-term on-the-job training
27-2041	Music Directors and Composers	50	50	0	8.5%	20	\$41,533	Bachelor's degree	1 to 5 years	None
27-3011	Radio and Television Announcers	100	100	0	0.0%	30	\$20,095	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	160	130	-20	-14.1%	60	\$30,073	Bachelor's degree	None	None
27-3031	Public Relations Specialists	350	430	80	22.1%	170	\$43,338	Bachelor's degree	None	Moderate-term on-the-job training
27-3041	Editors	150	140	-10	-7.8%	40	\$38,127	Bachelor's degree	1 to 5 years	None
27-3042	Technical Writers	120	120	10	6.0%	30	\$52,525	Bachelor's degree	1 to 5 years	Short-term on-the-job training
27-3043	Writers and Authors	380	390	10	2.6%	110	\$31,623	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	30	50	10	35.3%	20	\$21,737	Bachelor's degree	None	Long-term on-the-job training
27-4012	Broadcast Technicians	70	70	0	0.0%	20	\$28,063	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	30	30	0	-13.3%	10	\$32,427	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	430	450	20	4.4%	60	\$24,106	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	90	80	0	-4.5%	20	\$26,551	Bachelor's degree	None	Moderate-term on-the-job training
29-1011	Chiropractors	150	180	30	20.4%	60	\$50,821	Doctoral or professional degree	None	None
29-1021	Dentists, General	330	370	40	12.9%	140	\$143,890	Doctoral or professional degree	None	Internship/residency

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29-1031	Dietitians and Nutritionists	140	170	20	15.3%	70	\$46,545	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	100	130	30	27.5%	60	\$82,494	Doctoral or professional degree	None	None
29-1051	Pharmacists	600	730	130	21.5%	280	\$107,398	Doctoral or professional degree	None	None
29-1062	Family and General Practitioners	520	620	100	18.4%	200	\$174,152	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	170	200	30	18.7%	60	\$0	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	60	70	10	17.9%	20	\$0	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	110	130	20	19.0%	40	\$184,662	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	70	80	10	13.5%	30	\$163,975	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	220	260	40	18.4%	80	\$0	Doctoral or professional degree	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	390	440	50	13.2%	130	\$86,409	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	430	530	90	21.2%	170	\$86,511	Master's degree	None	None
29-1111	Registered Nurses	6,990	8,300	1,310	18.7%	2,570	\$55,867	Associate's degree	None	None
29-1122	Occupational Therapists	240	310	60	26.3%	110	\$66,089	Master's degree	None	None
29-1123	Physical Therapists	470	610	140	29.4%	190	\$77,991	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	130	150	20	11.2%	40	\$73,815	Associate's degree	None	None
29-1125	Recreational Therapists	40	40	0	7.7%	20	\$41,292	Bachelor's degree	None	None
29-1126	Respiratory Therapists	360	430	70	20.0%	140	\$48,484	Associate's degree	None	None
29-1127	Speech-Language Pathologists	340	410	70	20.9%	140	\$55,719	Master's degree	None	None
29-1131	Veterinarians	180	220	40	20.4%	70	\$73,090	Doctoral or professional degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	520	540	20	2.9%	120	\$50,190	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	590	620	40	6.2%	150	\$34,781	Associate's degree	None	None
29-2021	Dental Hygienists	430	550	120	27.1%	200	\$67,365	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	120	140	20	19.0%	40	\$40,321	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	160	210	50	32.7%	80	\$60,236	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	50	50	0	8.7%	10	\$68,135	Associate's degree	None	None
29-2037	Radiologic Technologists and Technicians	590	700	110	18.3%	200	\$48,290	Associate's degree	None	None
29-2041	Emergency Medical Technicians and Paramedics	430	550	120	28.7%	210	\$28,744	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	90	100	10	9.2%	20	\$23,513	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	980	1,270	290	30.1%	460	\$24,916	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	150	170	20	11.3%	40	\$27,210	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	40	40	0	-5.0%	10	\$38,450	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	400	440	40	10.2%	110	\$33,554	Postsecondary non-degree award	None	None

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage		a Related Occupation	
29-2061	Licensed Practical and Licensed Vocational Nurses	2,950	3,410	460	15.7%	1,250	\$35,483	Postsecondary non-degree av	None	None
29-2071	Medical Records and Health Information Technicians	620	700	80	12.5%	200	\$28,978	Postsecondary non-degree av	None	None
29-2081	Opticians, Dispensing	130	160	30	22.1%	60	\$24,219	High school diploma or equiv	None	Long-term on-the-job training
29-2799	Health Technologists and Technicians, All Other	90	100	10	16.3%	30	\$34,140	Postsecondary non-degree av	None	Short-term on-the-job training
29-9011	Occupational Health and Safety Specialists	200	230	30	12.5%	100	\$67,875	Bachelor's degree	None	Moderate-term on-the-job training
29-9012	Occupational Health and Safety Technicians	60	80	10	18.8%	40	\$44,211	High school diploma or equiv	None	Moderate-term on-the-job training
31-1011	Home Health Aides	2,670	4,230	1,560	58.2%	1,900	\$20,037	Less than high school	None	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	4,250	4,770	530	12.5%	1,080	\$21,007	Postsecondary non-degree av	None	None
31-1013	Psychiatric Aides	270	290	20	8.6%	60	\$19,514	High school diploma or equiv	None	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	210	280	70	34.8%	100	\$47,140	Associate's degree	None	None
31-2012	Occupational Therapist Aides	40	50	10	27.5%	20	\$30,893	High school diploma or equiv	None	Short-term on-the-job training
31-2021	Physical Therapist Assistants	300	400	100	35.3%	150	\$47,236	Associate's degree	None	None
31-2022	Physical Therapist Aides	170	220	60	34.1%	80	\$21,069	High school diploma or equiv	None	Moderate-term on-the-job training
31-9091	Dental Assistants	800	970	170	21.0%	340	\$30,073	Postsecondary non-degree av	None	None
31-9092	Medical Assistants	1,320	1,600	280	21.2%	480	\$24,856	High school diploma or equiv	None	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	120	130	10	8.1%	30	\$29,063	High school diploma or equiv	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	370	370	-10	-1.9%	60	\$27,676	Postsecondary non-degree av	None	None
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	360	360	-10	-1.4%	60	\$24,270	High school diploma or equiv	None	Short-term on-the-job training
31-9799	Healthcare Support Workers, All Other	290	320	30	9.9%	70	\$27,513	High school diploma or equiv	None	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	90	90	10	9.3%	40	\$45,816	High school diploma or equiv	1 to 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	70	70	10	10.6%	30	\$45,272	High school diploma or equiv	1 to 5 years	None
33-2011	Fire Fighters	510	600	90	17.8%	230	\$35,580	Postsecondary non-degree av	None	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	640	700	60	8.9%	170	\$28,474	High school diploma or equiv	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	340	370	40	11.0%	110	\$53,250	High school diploma or equiv	1 to 5 years	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	1,050	1,220	170	16.3%	480	\$36,383	High school diploma or equiv	None	Moderate-term on-the-job training
33-9011	Animal Control Workers	70	80	10	16.7%	30	\$26,806	High school diploma or equiv	None	Moderate-term on-the-job training
33-9032	Security Guards	2,130	2,540	410	19.0%	740	\$24,256	High school diploma or equiv	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	360	440	70	19.8%	300	\$17,829	High school diploma or equiv	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	200	200	10	3.6%	40	\$30,111	High school diploma or equiv	1 to 5 years	None
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	1,860	2,130	270	14.4%	660	\$26,017	High school diploma or equiv	1 to 5 years	None
35-2011	Cooks, Fast Food	2,890	2,940	60	1.9%	670	\$17,991	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,430	1,470	40	2.6%	340	\$18,874	Less than high school	None	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage			
35-2014	Cooks, Restaurant	2,560	3,060	490	19.2%	1,040	\$20,021	Less than high school	Less than 1 year	Moderate-term on-the-job training
35-2015	Cooks, Short Order	270	320	40	16.1%	100	\$18,063	Less than high school	None	Short-term on-the-job training
35-2021	Food Preparation Workers	1,270	1,450	180	14.4%	640	\$18,198	Less than high school	None	Short-term on-the-job training
35-3011	Bartenders	710	820	110	15.7%	360	\$18,303	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	5,440	6,610	1,160	21.4%	2,680	\$17,943	Less than high school	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	2,360	2,660	300	12.7%	2,010	\$17,663	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	7,760	8,910	1,150	14.8%	5,020	\$18,109	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Non-restaurant	270	310	40	14.8%	120	\$18,937	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	920	1,030	110	12.2%	530	\$17,896	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,050	1,150	100	9.8%	840	\$17,860	Less than high school	None	None
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	590	600	0	0.5%	90	\$29,232	High school diploma or equivalent	1 to 5 years	None
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping	440	500	70	15.6%	130	\$38,282	High school diploma or equivalent	1 to 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	4,950	5,580	630	12.7%	1,560	\$19,537	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	2,080	2,290	210	10.1%	560	\$18,258	Less than high school	None	Short-term on-the-job training
37-2021	Pest Control Workers	260	340	80	32.9%	200	\$30,463	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	2,570	3,180	610	23.7%	1,060	\$20,961	Less than high school	None	Short-term on-the-job training
37-3013	Tree Trimmers and Pruners	70	80	10	14.5%	20	\$21,162	High school diploma or equivalent	None	Short-term on-the-job training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	400	450	50	11.7%	140	\$29,658	High school diploma or equivalent	1 to 5 years	None
39-3031	Ushers, Lobby Attendants, and Ticket Takers	260	280	20	6.2%	170	\$17,775	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	200	240	40	21.0%	150	\$18,156	Less than high school	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	100	130	30	26.0%	90	\$18,624	High school diploma or equivalent	None	Short-term on-the-job training
39-4831	Funeral service managers, directors, morticians, and undertakers	60	70	10	21.1%	20	\$46,343	Associate's degree	None	Apprenticeship
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,210	1,360	150	12.7%	380	\$21,287	Postsecondary non-degree award	None	None
39-9011	Child Care Workers	1,990	2,380	390	19.5%	1,020	\$18,262	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal and Home Care Aides	920	1,540	620	67.8%	700	\$17,941	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	810	1,030	220	27.3%	350	\$24,805	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	700	820	120	17.4%	230	\$19,559	Bachelor's degree	None	None
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	5,710	6,020	310	5.4%	1,640	\$30,773	High school diploma or equivalent	1 to 5 years	None
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	980	960	-20	-2.1%	250	\$50,892	High school diploma or equivalent	More than 5 years	None
41-2011	Cashiers	8,220	8,780	560	6.8%	4,290	\$18,386	Less than high school	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	1,010	1,060	60	5.6%	290	\$19,907	Less than high school	None	Short-term on-the-job training
41-2031	Retail Salespersons	12,350	14,080	1,730	14.0%	5,350	\$19,963	Less than high school	None	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage		a Related Occupation	
41-3011	Advertising Sales Agents	340	350	10	3.9%	120	\$35,502	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	1,210	1,460	250	20.7%	530	\$38,458	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	690	800	100	15.0%	300	\$50,098	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	100	110	10	12.0%	20	\$27,499	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	810	920	110	14.0%	350	\$40,205	High school diploma or equivalent	None	Short-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1,680	1,780	100	5.9%	500	\$57,298	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	5,130	5,530	400	7.7%	1,600	\$45,677	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9021	Real Estate Brokers	460	460	0	0.4%	110	\$36,296	High school diploma or equivalent	1 to 5 years	None
41-9022	Real Estate Sales Agents	1,600	1,690	80	5.2%	440	\$33,665	High school diploma or equivalent	None	Long-term on-the-job training
41-9031	Sales Engineers	150	150	0	2.7%	50	\$71,669	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	2,390	2,540	150	6.1%	660	\$22,049	Less than high school	None	Short-term on-the-job training
41-9799	Sales and Related Workers, All Other	720	800	80	10.9%	260	\$22,544	High school diploma or equivalent	None	Moderate-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	4,300	4,780	480	11.2%	1,630	\$42,925	High school diploma or equivalent	1 to 5 years	None
43-3011	Bill and Account Collectors	1,920	2,220	300	15.6%	670	\$28,561	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	1,620	1,840	220	13.6%	500	\$28,734	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	8,080	8,840	760	9.4%	1,650	\$28,846	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	710	800	80	11.3%	230	\$33,849	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	1,690	1,710	20	1.0%	710	\$21,727	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	250	290	40	17.4%	110	\$27,671	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	80	80	0	-2.5%	20	\$30,538	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	10,470	12,700	2,230	21.3%	5,200	\$27,660	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	40	40	-10	-11.9%	10	\$35,831	Associate's degree	None	Moderate-term on-the-job training
43-4071	File Clerks	610	530	-80	-12.4%	160	\$23,621	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	620	730	110	17.6%	360	\$18,348	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	440	490	50	10.8%	140	\$24,567	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	240	280	40	16.2%	150	\$19,313	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	550	530	-20	-3.8%	100	\$26,152	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	200	200	0	2.0%	60	\$28,368	High school diploma or equivalent	None	Short-term on-the-job training
43-4151	Order Clerks	490	520	20	4.7%	160	\$25,209	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	530	590	70	12.3%	210	\$33,024	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	2,280	2,640	360	15.8%	1,050	\$22,352	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	450	430	-20	-4.6%	130	\$38,715	High school diploma or equivalent	None	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage			
43-5021	Couriers and Messengers	260	270	10	3.1%	70	\$22,375	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	220	260	40	18.0%	80	\$26,268	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	450	520	70	15.5%	160	\$30,058	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	240	290	50	18.7%	120	\$28,101	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	150	70	-70	-51.0%	30	\$53,835	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	950	800	-160	-16.6%	310	\$53,893	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	520	250	-270	-51.5%	30	\$53,786	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	910	990	70	8.1%	310	\$42,594	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	2,420	2,380	-40	-1.7%	620	\$27,981	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	4,600	4,550	-60	-1.2%	1,140	\$20,708	Less than high school	None	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	3,050	3,330	270	9.0%	680	\$37,386	High school diploma or equivalent	1 to 5 years	None
43-6012	Legal Secretaries	680	640	-40	-6.5%	90	\$30,940	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	990	1,300	310	30.8%	440	\$27,538	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	5,230	5,310	80	1.5%	780	\$26,908	High school diploma or equivalent	None	Short-term on-the-job training
43-9011	Computer Operators	280	250	-30	-10.7%	30	\$31,379	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	740	660	-80	-10.4%	130	\$24,297	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	100	90	-10	-13.9%	10	\$29,736	High school diploma or equivalent	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	620	690	60	9.9%	250	\$35,514	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	220	240	20	10.6%	70	\$24,184	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	6,920	7,890	970	14.0%	2,190	\$23,277	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	170	150	-20	-12.6%	50	\$28,369	High school diploma or equivalent	None	Short-term on-the-job training
43-9799	Office and Administrative Support Workers, All Other	170	180	20	8.9%	50	\$33,101	High school diploma or equivalent	None	Short-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	2,190	2,390	210	9.6%	710	\$53,560	High school diploma or equivalent	More than 5 years	None
47-2021	Brickmasons and Blockmasons	160	200	40	22.1%	70	\$33,972	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	110	130	20	19.8%	40	\$31,084	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	2,800	3,020	220	7.8%	810	\$31,202	High school diploma or equivalent	None	Apprenticeship
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	70	70	0	-5.5%	20	\$27,654	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	70	70	0	4.3%	20	\$38,384	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	730	830	110	14.4%	220	\$29,012	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	3,020	3,300	280	9.1%	520	\$26,176	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	360	390	30	8.0%	100	\$29,326	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	770	880	110	13.9%	290	\$34,826	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage			
47-2081	Drywall and Ceiling Tile Installers	690	760	70	10.1%	260	\$30,465	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	1,880	2,060	180	9.8%	690	\$44,119	High school diploma or equivalent	None	Apprenticeship
47-2132	Insulation Workers, Mechanical	180	200	20	11.0%	90	\$31,711	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	1,500	1,600	100	6.6%	430	\$32,532	Less than high school	None	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	1,530	1,700	180	11.5%	620	\$38,988	High school diploma or equivalent	None	Apprenticeship
47-2211	Sheet Metal Workers	630	730	110	16.7%	210	\$49,225	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	160	170	10	5.0%	40	\$30,871	High school diploma or equivalent	None	Apprenticeship
47-3012	Helpers--Carpenters	180	240	60	31.3%	110	\$23,476	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	300	330	30	11.5%	110	\$27,404	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	250	300	60	22.4%	120	\$26,988	High school diploma or equivalent	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	250	280	40	15.5%	110	\$41,675	High school diploma or equivalent	More than 5 years	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	420	490	70	16.3%	180	\$29,626	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	250	300	50	20.5%	120	\$28,712	Less than high school	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	70	80	10	8.1%	20	\$43,692	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	80	90	10	6.1%	20	\$48,372	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	610	660	50	8.0%	180	\$39,630	Less than high school	None	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	610	650	50	7.6%	170	\$34,052	Less than high school	None	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	110	110	0	2.8%	30	\$34,428	High school diploma or equivalent	None	Short-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	1,210	1,330	120	9.5%	430	\$55,589	High school diploma or equivalent	1 to 5 years	None
49-2011	Computer, Automated Teller, and Office Machine Repairers	250	250	0	1.2%	60	\$32,921	Postsecondary non-degree award	None	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	420	440	10	3.3%	80	\$42,029	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2092	Electric Motor, Power Tool, and Related Repairers	70	70	0	-4.3%	10	\$43,621	Postsecondary non-degree award	None	Long-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	190	200	10	3.6%	50	\$55,473	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	50	80	20	41.5%	40	\$52,817	Postsecondary non-degree award	None	Long-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	230	260	40	16.4%	90	\$30,755	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	220	290	80	35.2%	130	\$31,501	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	2,900	2,940	30	1.1%	910	\$52,782	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	550	640	90	15.4%	220	\$35,519	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	1,760	2,030	270	15.6%	730	\$34,053	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	820	920	100	12.3%	280	\$35,247	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	440	480	40	9.2%	150	\$38,925	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	60	60	10	16.4%	20	\$26,153	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage			
49-3093	Tire Repairers and Changers	60	70	10	18.0%	30	\$23,042	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9011	Mechanical Door Repairers	80	80	0	5.0%	20	\$28,824	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	150	170	20	11.3%	50	\$38,862	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	830	980	160	18.7%	300	\$37,439	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	180	180	0	-2.2%	30	\$32,739	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	980	1,170	200	20.4%	390	\$45,899	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	240	270	20	9.0%	70	\$34,687	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9044	Millwrights	40	30	0	-11.4%	10	\$42,880	High school diploma or equivalent	None	Long-term on-the-job training
49-9045	Refractory Materials Repairers, Except Brickmasons	30	40	0	6.1%	10	\$36,201	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	200	240	50	23.4%	120	\$47,678	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	730	730	-10	-0.8%	140	\$47,652	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	210	260	50	22.5%	100	\$37,532	Associate's degree	None	Moderate-term on-the-job training
49-9071	Maintenance and Repair Workers, General	3,360	3,660	310	9.1%	920	\$30,587	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	190	220	30	17.1%	70	\$27,873	High school diploma or equivalent	None	Short-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	500	580	80	16.6%	310	\$23,632	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9799	Installation, Maintenance, and Repair Workers, All Other	470	500	30	5.5%	110	\$43,384	High school diploma or equivalent	None	Moderate-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	2,140	2,290	150	7.1%	430	\$50,871	Postsecondary non-degree award	1 to 5 years	None
51-2022	Electrical and Electronic Equipment Assemblers	430	430	0	-0.5%	60	\$29,889	High school diploma or equivalent	None	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	170	190	20	9.4%	40	\$25,545	High school diploma or equivalent	None	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	80	90	10	14.8%	30	\$34,351	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	480	590	110	22.2%	200	\$33,625	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	4,810	5,500	690	14.3%	1,640	\$26,825	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	160	190	30	17.2%	60	\$22,197	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	370	380	10	3.8%	120	\$20,489	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	280	290	10	3.6%	90	\$24,259	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	130	140	20	12.7%	50	\$25,984	Less than high school	None	Short-term on-the-job training
51-3092	Food Batchmakers	220	240	20	6.7%	80	\$24,359	High school diploma or equivalent	Less than 1 year	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	310	350	40	13.4%	130	\$24,980	High school diploma or equivalent	Less than 1 year	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	350	450	100	30.1%	170	\$34,972	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	140	160	30	18.5%	50	\$49,090	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	30	40	0	11.8%	10	\$23,036	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	210	250	40	17.5%	80	\$32,320	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage			
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	520	580	70	12.5%	100	\$27,340	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	190	190	0	0.5%	10	\$33,558	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	310	350	30	10.9%	80	\$29,349	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	220	230	10	3.2%	90	\$34,902	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	40	40	0	11.4%	10	\$33,348	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	2,020	2,350	330	16.4%	700	\$36,526	High school diploma or equivalent	None	Long-term on-the-job training
51-4052	Pourers and Casters, Metal	50	50	10	13.3%	20	\$31,480	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	180	210	30	14.9%	60	\$27,655	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	170	190	20	11.7%	50	\$32,717	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	100	110	10	7.8%	10	\$50,824	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	3,590	4,260	680	18.9%	1,630	\$35,293	High school diploma or equivalent	Less than 1 year	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	90	100	10	14.3%	40	\$30,943	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	90	100	10	8.7%	80	\$27,798	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4192	Lay-Out Workers, Metal and Plastic	50	60	10	27.7%	20	\$32,973	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	110	130	20	19.6%	50	\$35,900	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	80	100	20	17.9%	20	\$29,201	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	160	130	-30	-15.7%	40	\$27,332	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators and Job Printers	510	530	10	2.3%	110	\$28,742	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	120	130	0	2.4%	40	\$26,478	High school diploma or equivalent	None	Short-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	680	680	10	1.3%	140	\$18,401	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	170	170	-10	-4.6%	10	\$19,013	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	240	190	-50	-20.0%	10	\$22,175	Less than high school	None	Short-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	200	240	50	23.0%	90	\$26,521	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	70	90	20	31.8%	40	\$23,433	High school diploma or equivalent	None	Short-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	100	110	10	14.0%	40	\$50,586	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	180	220	30	18.1%	80	\$29,566	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	110	110	0	3.7%	40	\$57,360	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	670	590	-80	-12.0%	220	\$53,712	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	50	50	0	-2.0%	10	\$43,389	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	90	100	10	12.4%	40	\$29,089	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	170	200	20	13.8%	80	\$28,058	Less than high school	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	310	320	20	4.9%	110	\$31,901	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2010-2020		Total Openings	Oklahoma	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage			
51-9031	Cutters and Trimmers, Hand	40	40	0	0.0%	10	\$21,861	Less than high school	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	140	140	10	5.2%	40	\$30,569	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	120	130	10	9.0%	40	\$37,881	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	80	80	10	9.3%	30	\$40,395	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,190	2,460	270	12.2%	750	\$37,432	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	90	90	0	-2.1%	20	\$35,509	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	200	210	10	6.0%	80	\$29,885	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	130	140	10	6.9%	50	\$22,535	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	710	770	50	7.4%	170	\$24,443	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	690	790	100	14.7%	250	\$29,549	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	270	310	40	12.8%	90	\$35,541	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	80	90	20	21.1%	30	\$27,661	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	160	140	-20	-10.2%	40	\$21,025	High school diploma or equivalent	None	Short-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	140	160	20	13.2%	70	\$32,657	High school diploma or equivalent	None	Long-term on-the-job training
51-9198	Helpers--Production Workers	1,410	1,680	270	19.2%	500	\$22,914	Less than high school	None	Short-term on-the-job training
51-9399	Production Workers, All Other	270	310	40	14.4%	110	\$22,488	High school diploma or equivalent	None	Moderate-term on-the-job training
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Equipment Operators	1,090	1,210	120	11.0%	350	\$52,040	High school diploma or equivalent	1 to 5 years	None
53-2011	Airline Pilots, Copilots, and Flight Engineers	60	60	0	-1.6%	20	\$83,732	Bachelor's degree	1 to 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	100	110	10	10.3%	50	\$68,276	Postsecondary non-degree award	None	None
53-3021	Bus Drivers, Transit and Intercity	320	360	40	12.8%	100	\$23,227	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School	940	940	0	-0.1%	180	\$19,990	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	1,640	1,770	140	8.4%	460	\$21,717	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	4,850	5,460	610	12.6%	1,580	\$35,502	High school diploma or equivalent	1 to 5 years	Short-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	1,890	2,090	200	10.3%	570	\$25,973	High school diploma or equivalent	None	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	210	240	30	16.3%	60	\$19,143	Less than high school	None	Short-term on-the-job training
53-6021	Parking Lot Attendants	260	250	-10	-3.8%	80	\$18,275	Less than high school	None	Short-term on-the-job training
53-6031	Service Station Attendants	80	80	10	7.9%	30	\$20,521	Less than high school	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	90	100	10	8.8%	30	\$37,856	Less than high school	1 to 5 years	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	280	300	20	7.9%	100	\$30,913	Less than high school	1 to 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	940	1,080	140	14.6%	410	\$29,051	Less than high school	Less than 1 year	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	790	960	170	21.3%	410	\$21,070	Less than high school	None	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	5,420	6,060	640	11.9%	2,370	\$22,868	Less than high school	None	Short-term on-the-job training

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		2010	2020	Numeric	Percent		Median Annual Wage			
53-7063	Machine Feeders and Offbearers	270	270	10	1.9%	50	\$25,114	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	1,020	1,090	80	7.7%	370	\$18,970	Less than high school	None	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	30	30	-10	-19.4%	10	\$60,469	Less than high school	None	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	230	240	10	5.2%	80	\$44,669	Less than high school	None	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	200	210	10	4.5%	70	\$42,177	Less than high school	Less than 1 year	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	400	500	100	26.1%	220	\$25,925	Less than high school	None	Short-term on-the-job training

Notes:

Oklahoma Median Annual Wage data is from the 2010 statewide Occupational Employment Statistics (OES).