

TULSA Workforce Investment Area Occupational Projections 2012-2022

Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
00-0000	Total, All Occupations	384,610	422,200	37,590	9.8%	129,260	\$32,911			
11-1011	Chief Executives	1,600	1,670	70	4.2%	410	\$143,269	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	7,060	7,780	720	10.2%	2,040	\$88,575	Bachelor's degree	Less than 5 years	None
11-1031	Legislators	70	70	0	4.2%	20	\$37,230	Bachelor's degree	Less than 5 years	None
11-2011	Advertising and Promotions Managers	80	80	0	3.7%	30	\$49,394	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	430	470	40	9.1%	130	\$84,021	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	1,250	1,350	100	7.6%	360	\$94,044	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	140	170	20	16.9%	50	\$77,597	Bachelor's degree	5 years or more	None
11-3011	Administrative Services Managers	1,250	1,400	160	12.8%	360	\$63,053	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	600	660	60	10.3%	140	\$96,907	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	1,350	1,460	100	7.8%	360	\$101,650	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	940	990	50	5.7%	220	\$91,575	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	160	170	10	7.5%	50	\$87,522	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	340	360	10	4.1%	90	\$62,472	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	120	120	0	3.4%	40	\$80,774	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	330	380	40	12.9%	130	\$75,202	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	120	140	20	13.0%	50	\$66,830	Bachelor's degree	5 years or more	None
11-9021	Construction Managers	1,750	1,960	210	12.2%	490	\$68,612	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education Administrators, Preschool and Childcare Center/Program	160	190	30	15.9%	70	\$45,923	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	440	480	30	7.7%	150	\$72,831	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	270	320	40	16.2%	120	\$69,373	Master's degree	5 years or more	None
11-9051	Food Service Managers	1,010	1,040	30	2.9%	210	\$44,467	High school diploma or equivalent	Less than 5 years	None
11-9061	Funeral Service Managers	30	40	0	11.8%	10	\$54,763	Associate's degree	Less than 5 years	None
11-9081	Lodging Managers	120	120	0	2.6%	40	\$42,954	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	840	1,010	170	20.3%	370	\$80,625	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	50	50	0	0.0%	10	\$91,988	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	40	30	-10	-23.3%	10	\$76,742	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	1,290	1,340	50	3.7%	340	\$45,370	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	230	280	50	19.7%	90	\$55,821	Bachelor's degree	5 years or more	None
11-9161	Emergency Management Directors	30	30	0	7.1%	10	\$50,561	Bachelor's degree	5 years or more	None
11-9199	Managers, All Other	870	910	40	4.0%	230	\$86,488	High school diploma or equivalent	Less than 5 years	None
13-1021	Buyers and Purchasing Agents, Farm Products	130	140	10	6.9%	30	\$44,758	High school diploma or equivalent	None	Long-term on-the-job training

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13-1022	Wholesale and Retail Buyers, Except Farm Products	390	410	20	5.7%	120	\$47,943	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1,130	1,190	60	5.6%	270	\$54,742	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	670	690	30	4.2%	180	\$43,149	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	400	420	20	5.7%	100	\$56,280	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	480	590	110	22.5%	260	\$55,314	Bachelor's degree	None	None
13-1071	Human Resources Specialists	1,070	1,140	70	6.3%	260	\$47,455	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	70	70	0	0.0%	10	N/A	Bachelor's degree	None	None
13-1081	Logisticians	230	280	50	20.6%	80	\$63,517	Bachelor's degree	None	None
13-1111	Management Analysts	1,090	1,260	170	15.3%	340	\$63,089	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	210	290	70	34.1%	100	\$39,873	Bachelor's degree	None	None
13-1131	Fundraisers	130	160	20	18.7%	50	\$50,077	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	220	240	20	6.7%	60	\$55,008	Bachelor's degree	None	None
13-1151	Training and Development Specialists	900	1,060	160	17.7%	320	\$49,528	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	770	960	200	25.5%	300	\$59,239	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	1,130	1,160	20	2.0%	180	\$63,050	High school diploma or equivalent	None	None
13-2011	Accountants and Auditors	4,290	4,670	380	8.9%	1,650	\$61,397	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	210	220	0	2.4%	20	\$37,169	Bachelor's degree	None	Long-term on-the-job training
13-2031	Budget Analysts	110	110	0	4.6%	50	\$60,962	Bachelor's degree	None	None
13-2041	Credit Analysts	540	540	0	-0.2%	130	\$56,308	Bachelor's degree	None	None
13-2051	Financial Analysts	400	440	40	10.6%	140	\$69,794	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	400	500	100	25.1%	160	\$47,182	Bachelor's degree	None	None
13-2053	Insurance Underwriters	210	190	-20	-7.7%	60	\$57,535	Bachelor's degree	None	Moderate-term on-the-job training
13-2061	Financial Examiners	140	150	10	6.2%	50	\$79,876	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Credit Counselors	170	190	20	9.9%	50	\$32,554	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	1,020	1,080	60	6.2%	250	\$61,701	Bachelor's degree	None	Moderate-term on-the-job training
13-2081	Tax Examiners and Collectors, and Revenue Agents	110	100	0	-3.7%	40	\$76,450	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	320	330	10	1.9%	70	\$25,022	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	60	60	0	3.2%	10	\$70,391	Bachelor's degree	None	Moderate-term on-the-job training
15-1121	Computer Systems Analysts	720	860	140	19.1%	250	\$75,865	Bachelor's degree	None	None
15-1122	Information Security Analysts	170	210	40	20.8%	60	\$69,933	Bachelor's degree	Less than 5 years	None
15-1131	Computer Programmers	620	610	-10	-1.8%	160	\$66,754	Bachelor's degree	None	None
15-1132	Software Developers, Applications	600	720	110	18.9%	190	\$63,557	Bachelor's degree	None	None

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15-1133	Software Developers, Systems Software	610	720	100	17.0%	180	\$77,488	Bachelor's degree	None	None
15-1134	Web Developers	330	370	40	11.6%	90	\$52,638	Associate's degree	None	None
15-1141	Database Administrators	230	240	10	6.1%	60	\$82,878	Bachelor's degree	Less than 5 years	None
15-1142	Network and Computer Systems Administrators	660	700	40	6.0%	140	\$67,847	Bachelor's degree	None	None
15-1143	Computer Network Architects	190	210	20	7.8%	40	\$91,146	Bachelor's degree	5 years or more	None
15-1151	Computer User Support Specialists	1,690	1,950	260	15.1%	520	\$42,385	Some college, no degree	None	Moderate-term on-the-job training
15-1152	Computer Network Support Specialists	570	590	10	2.4%	100	\$65,468	Associate's degree	None	None
15-1199	Computer Occupations, All Other	140	150	0	3.5%	30	\$63,321	Bachelor's degree	None	None
15-2031	Operations Research Analysts	110	150	40	33.6%	60	\$60,958	Bachelor's degree	None	None
15-2041	Statisticians	80	100	20	32.0%	50	\$64,202	Master's degree	None	None
17-1011	Architects, Except Landscape and Naval	290	320	30	10.1%	100	\$72,407	Bachelor's degree	None	Internship/residency
17-1012	Landscape Architects	30	30	0	7.1%	10	\$64,932	Bachelor's degree	None	Internship/residency
17-1021	Cartographers and Photogrammetrists	60	70	10	9.5%	20	\$64,640	Bachelor's degree	None	None
17-1022	Surveyors	270	270	10	2.6%	60	\$57,166	Bachelor's degree	Less than 5 years	None
17-2011	Aerospace Engineers	240	250	10	2.9%	60	\$80,121	Bachelor's degree	None	None
17-2041	Chemical Engineers	70	70	0	4.2%	20	\$93,328	Bachelor's degree	None	None
17-2051	Civil Engineers	1,100	1,170	80	7.2%	340	\$82,960	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	90	90	10	8.1%	30	\$78,096	Bachelor's degree	None	None
17-2071	Electrical Engineers	420	470	50	12.2%	140	\$76,322	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	170	180	10	4.2%	40	\$80,680	Bachelor's degree	None	None
17-2081	Environmental Engineers	100	100	0	4.2%	30	\$88,662	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	210	220	10	6.6%	80	\$88,500	Bachelor's degree	None	None
17-2112	Industrial Engineers	440	470	30	7.1%	160	\$82,077	Bachelor's degree	None	None
17-2131	Materials Engineers	340	340	0	1.2%	110	\$69,854	Bachelor's degree	None	None
17-2141	Mechanical Engineers	730	760	20	3.3%	270	\$77,090	Bachelor's degree	None	None
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	100	110	10	12.9%	40	\$109,307	Bachelor's degree	None	None
17-2171	Petroleum Engineers	910	1,060	150	16.1%	380	\$121,417	Bachelor's degree	None	None
17-2199	Engineers, All Other	310	280	-30	-10.9%	60	\$75,807	Bachelor's degree	None	None
17-3011	Architectural and Civil Drafters	360	360	-10	-1.6%	50	\$50,932	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	180	190	10	5.6%	30	\$55,273	Associate's degree	None	None
17-3013	Mechanical Drafters	560	530	-30	-5.5%	80	\$56,768	Associate's degree	None	None
17-3019	Drafters, All Other	40	50	10	14.3%	10	\$48,329	Associate's degree	None	None

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17-3021	Aerospace Engineering and Operations Technicians	60	50	-10	-11.9%	10	\$69,838	Associate's degree	None	None
17-3022	Civil Engineering Technicians	210	210	0	0.0%	40	\$53,638	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technicians	370	380	10	1.9%	80	\$52,916	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	50	60	0	7.5%	20	\$40,762	Associate's degree	None	None
17-3026	Industrial Engineering Technicians	170	180	0	2.9%	40	\$44,456	Associate's degree	None	None
17-3027	Mechanical Engineering Technicians	80	90	0	4.9%	20	\$47,997	Associate's degree	None	None
17-3029	Engineering Technicians, Except Drafters, All Other	390	400	10	1.8%	90	\$57,976	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	150	160	10	7.8%	40	\$56,511	High school diploma or equivalent	None	Moderate-term on-the-job training
19-1029	Biological Scientists, All Other	50	50	0	-7.8%	20	N/A	Bachelor's degree	None	None
19-1031	Conservation Scientists	30	30	0	3.7%	10	\$65,707	Bachelor's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	130	150	20	16.7%	50	\$196,568	Doctoral or professional degree	None	None
19-2021	Atmospheric and Space Scientists	80	80	0	5.3%	20	\$76,440	Bachelor's degree	None	None
19-2031	Chemists	100	100	10	6.2%	30	\$67,910	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	200	220	20	9.3%	80	\$61,457	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	180	200	20	8.9%	70	\$127,947	Bachelor's degree	None	None
19-3011	Economists	40	40	0	4.9%	10	N/A	Master's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	180	200	20	9.9%	70	\$47,488	Doctoral or professional degree	None	Internship/residency
19-3051	Urban and Regional Planners	60	70	0	4.7%	30	\$74,427	Master's degree	None	None
19-4031	Chemical Technicians	150	150	0	-0.7%	40	\$33,560	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	140	160	10	9.7%	70	\$44,923	Associate's degree	None	Moderate-term on-the-job training
19-4091	Environmental Science and Protection Technicians, Including Health	120	150	20	16.8%	70	\$26,331	Associate's degree	None	None
19-4092	Forensic Science Technicians	90	90	0	4.6%	40	N/A	Bachelor's degree	None	Moderate-term on-the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	40	40	0	0.0%	20	\$64,770	Associate's degree	None	None
21-1011	Substance Abuse and Behavioral Disorder Counselors	180	230	50	28.2%	90	\$34,197	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Guidance, School, and Vocational Counselors	540	610	70	13.0%	180	\$45,188	Master's degree	None	None
21-1013	Marriage and Family Therapists	90	120	30	33.3%	50	\$46,962	Master's degree	None	Internship/residency
21-1014	Mental Health Counselors	240	300	60	25.0%	110	\$45,030	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	420	500	80	19.1%	170	\$32,714	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	500	540	50	9.7%	150	\$30,037	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	320	400	80	25.4%	150	\$41,112	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	290	340	50	18.2%	120	\$27,624	Bachelor's degree	None	None
21-1029	Social Workers, All Other	70	80	0	5.5%	20	\$51,106	Bachelor's degree	None	None

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21-1091	Health Educators	90	110	20	17.2%	40	\$54,689	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	100	100	0	0.0%	30	N/A	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	560	660	100	18.4%	250	\$23,898	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	120	150	30	25.8%	60	\$23,966	High school diploma or equivalent	None	Short-term on-the-job training
21-2011	Clergy	70	80	10	16.4%	20	\$43,192	Bachelor's degree	None	Moderate-term on-the-job training
23-1011	Lawyers	2,080	2,160	80	4.1%	420	\$122,119	Doctoral or professional degree	None	None
23-2011	Paralegals and Legal Assistants	840	920	70	8.8%	210	\$44,067	Associate's degree	None	None
23-2091	Court Reporters	40	50	10	13.6%	10	N/A	Postsecondary non-degree award	None	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	410	430	20	5.4%	90	\$48,722	High school diploma or equivalent	None	Short-term on-the-job training
23-2099	Legal Support Workers, All Other	80	80	0	1.2%	10	N/A	High school diploma or equivalent	None	Short-term on-the-job training
25-1011	Business Teachers, Postsecondary	130	150	20	16.7%	40	\$69,679	Doctoral or professional degree	None	None
25-1021	Computer Science Teachers, Postsecondary	60	60	10	14.0%	20	\$85,200	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	80	90	10	13.6%	20	N/A	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	120	130	20	13.9%	30	N/A	Doctoral or professional degree	None	None
25-1042	Biological Science Teachers, Postsecondary	90	100	20	20.9%	30	N/A	Doctoral or professional degree	None	None
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	30	30	0	14.3%	10	N/A	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	60	70	10	16.4%	20	N/A	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	40	50	10	15.9%	10	N/A	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	40	50	10	17.9%	10	N/A	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	40	40	10	16.2%	10	N/A	Doctoral or professional degree	None	None
25-1064	Geography Teachers, Postsecondary	40	40	0	11.4%	10	N/A	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	40	50	10	17.8%	20	N/A	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	30	40	0	15.2%	10	N/A	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	120	160	50	38.7%	60	\$52,335	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	120	170	50	38.2%	60	\$55,207	Master's degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	60	70	10	17.5%	20	\$57,244	Doctoral or professional degree	None	None
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	40	40	10	15.4%	10	\$81,497	Doctoral or professional degree	None	None
25-1112	Law Teachers, Postsecondary	50	60	10	19.6%	20	N/A	Doctoral or professional degree	None	None
25-1113	Social Work Teachers, Postsecondary	30	40	0	12.5%	10	N/A	Doctoral or professional degree	None	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	100	120	20	17.3%	30	N/A	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	60	70	10	16.1%	20	N/A	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	90	100	10	14.4%	30	N/A	Doctoral or professional degree	None	None

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25-1124	Foreign Language and Literature Teachers, Postsecondary	60	70	10	17.7%	20	N/A	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	60	60	10	16.4%	20	N/A	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	50	60	10	22.4%	20	N/A	Doctoral or professional degree	None	None
25-1192	Home Economics Teachers, Postsecondary	40	40	0	11.1%	10	N/A	Master's degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	40	50	0	11.9%	10	\$41,867	Doctoral or professional degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	400	460	60	14.4%	120	\$42,645	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	160	180	20	15.1%	50	N/A	Doctoral or professional degree	None	None
25-2011	Preschool Teachers, Except Special Education	1,230	1,430	200	16.2%	550	\$31,732	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	420	480	60	14.3%	180	\$53,356	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Education	2,920	3,350	420	14.4%	1,070	\$45,615	Bachelor's degree	None	Internship/residency
25-2022	Middle School Teachers, Except Special and Career/Technical Education	1,280	1,460	180	14.4%	460	\$47,009	Bachelor's degree	None	Internship/residency
25-2023	Career/Technical Education Teachers, Middle School	30	30	0	9.7%	10	\$55,347	Bachelor's degree	Less than 5 years	Internship/residency
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	2,040	2,190	150	7.4%	700	\$45,571	Bachelor's degree	None	Internship/residency
25-2032	Career/Technical Education Teachers, Secondary School	120	130	10	6.7%	40	\$48,564	Bachelor's degree	Less than 5 years	Internship/residency
25-2051	Special Education Teachers, Preschool	30	30	0	17.2%	10	N/A	Bachelor's degree	None	Internship/residency
25-2052	Special Education Teachers, Kindergarten and Elementary School	320	350	20	7.1%	80	\$47,130	Bachelor's degree	None	Internship/residency
25-2053	Special Education Teachers, Middle School	180	200	10	7.6%	50	\$48,840	Bachelor's degree	None	Internship/residency
25-2054	Special Education Teachers, Secondary School	270	290	20	6.2%	60	\$48,563	Bachelor's degree	None	Internship/residency
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	160	170	10	8.9%	40	\$41,045	Bachelor's degree	None	Internship/residency
25-3021	Self-Enrichment Education Teachers	600	700	100	16.9%	200	\$28,159	High school diploma or equivalent	Less than 5 years	None
25-3098	Substitute Teachers	960	1,050	80	8.6%	250	\$20,275	Bachelor's degree	None	Internship/residency
25-3099	Teachers and Instructors, All Other	920	1,020	100	10.3%	250	N/A	Bachelor's degree	None	Internship/residency
25-4013	Museum Technicians and Conservators	30	40	10	26.7%	20	\$33,241	Bachelor's degree	None	None
25-4021	Librarians	280	300	30	9.4%	90	\$50,637	Master's degree	None	None
25-4031	Library Technicians	250	280	20	9.1%	160	\$28,428	Postsecondary non-degree award	None	None
25-9011	Audio-Visual and Multimedia Collections Specialists	40	40	0	0.0%	0	\$33,767	Bachelor's degree	Less than 5 years	None
25-9031	Instructional Coordinators	340	390	50	14.9%	80	\$49,371	Master's degree	5 years or more	None
25-9041	Teacher Assistants	2,860	3,140	280	9.9%	930	\$22,088	Some college, no degree	None	None
25-9099	Education, Training, and Library Workers, All Other	30	30	0	10.0%	10	N/A	Bachelor's degree	None	None
27-1011	Art Directors	150	140	0	-2.0%	40	\$59,385	Bachelor's degree	5 years or more	None
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	40	40	0	2.3%	10	N/A	High school diploma or equivalent	None	Long-term on-the-job training
27-1014	Multimedia Artists and Animators	50	50	0	2.0%	10	\$38,440	Bachelor's degree	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
27-1021	Commercial and Industrial Designers	50	50	0	2.1%	10	\$65,032	Bachelor's degree	None	None
27-1023	Floral Designers	110	100	-10	-8.8%	30	\$23,933	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	570	590	20	3.7%	170	\$40,837	Bachelor's degree	None	None
27-1025	Interior Designers	150	160	10	7.3%	50	\$47,819	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	90	100	10	7.5%	30	\$38,933	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	50	50	0	10.9%	20	N/A	Bachelor's degree	None	None
27-2012	Producers and Directors	280	300	10	3.5%	110	\$38,196	Bachelor's degree	Less than 5 years	None
27-2022	Coaches and Scouts	270	320	50	18.6%	130	\$32,278	Bachelor's degree	None	None
27-2041	Music Directors and Composers	60	60	0	3.5%	20	\$38,582	Bachelor's degree	Less than 5 years	None
27-3011	Radio and Television Announcers	70	70	0	-1.4%	20	\$39,285	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	180	150	-20	-14.2%	60	\$30,527	Bachelor's degree	None	None
27-3031	Public Relations Specialists	220	250	30	11.8%	60	\$46,200	Bachelor's degree	None	None
27-3041	Editors	230	210	-20	-6.6%	60	\$55,554	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	150	160	20	11.5%	60	\$57,294	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	280	290	10	2.5%	70	\$45,255	Bachelor's degree	None	Moderate-term on-the-job training
27-4011	Audio and Video Equipment Technicians	100	120	10	11.7%	30	\$40,589	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	50	50	0	3.9%	10	\$34,316	Associate's degree	None	Short-term on-the-job training
27-4021	Photographers	470	470	0	-0.8%	50	\$27,616	High school diploma or equivalent	None	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	100	110	0	3.9%	10	\$32,561	Bachelor's degree	None	None
29-1011	Chiropractors	170	190	20	10.4%	50	\$43,727	Doctoral or professional degree	None	None
29-1021	Dentists, General	460	520	60	12.2%	170	\$137,753	Doctoral or professional degree	None	None
29-1023	Orthodontists	60	70	10	13.3%	20	N/A	Doctoral or professional degree	None	Internship/residency
29-1031	Dietitians and Nutritionists	220	270	50	20.9%	70	\$48,717	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	130	160	30	19.8%	60	\$109,526	Doctoral or professional degree	None	None
29-1051	Pharmacists	740	830	100	12.9%	270	\$116,029	Doctoral or professional degree	None	None
29-1061	Anesthesiologists	80	100	20	20.2%	40	\$208,000	Doctoral or professional degree	None	Internship/residency
29-1062	Family and General Practitioners	700	780	70	10.4%	250	\$190,428	Doctoral or professional degree	None	Internship/residency
29-1063	Internists, General	80	80	10	9.3%	30	\$190,646	Doctoral or professional degree	None	Internship/residency
29-1064	Obstetricians and Gynecologists	20	30	0	4.0%	10	N/A	Doctoral or professional degree	None	Internship/residency
29-1065	Pediatricians, General	40	40	0	10.0%	10	\$121,398	Doctoral or professional degree	None	Internship/residency
29-1066	Psychiatrists	40	40	0	13.2%	20	\$145,707	Doctoral or professional degree	None	Internship/residency
29-1067	Surgeons	320	380	60	19.0%	140	\$188,104	Doctoral or professional degree	None	Internship/residency

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
29-1069	Physicians and Surgeons, All Other	590	680	100	16.1%	240	\$208,000	Doctoral or professional degree	None	Internship/residency
29-1071	Physician Assistants	500	680	180	35.3%	270	\$107,291	Master's degree	None	None
29-1122	Occupational Therapists	170	220	40	25.0%	70	\$71,628	Master's degree	None	None
29-1123	Physical Therapists	480	640	150	31.6%	270	\$84,707	Doctoral or professional degree	None	None
29-1124	Radiation Therapists	80	100	20	19.3%	30	\$82,510	Associate's degree	None	None
29-1125	Recreational Therapists	40	50	0	11.6%	10	\$35,456	Bachelor's degree	None	None
29-1126	Respiratory Therapists	340	380	50	14.9%	100	\$52,969	Associate's degree	None	None
29-1127	Speech-Language Pathologists	330	400	60	19.0%	110	\$55,149	Master's degree	None	None
29-1131	Veterinarians	200	210	10	4.4%	70	N/A	Doctoral or professional degree	None	None
29-1141	Registered Nurses	6,630	7,690	1,060	16.0%	2,340	\$59,620	Associate's degree	None	None
29-1151	Nurse Anesthetists	150	180	30	21.6%	60	\$167,937	Master's degree	None	None
29-1171	Nurse Practitioners	130	170	40	30.3%	70	\$90,324	Master's degree	None	None
29-1181	Audiologists	70	90	20	32.8%	40	\$72,363	Doctoral or professional degree	None	None
29-2011	Medical and Clinical Laboratory Technologists	490	540	50	10.9%	180	\$52,344	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	520	660	140	26.0%	270	\$29,949	Associate's degree	None	None
29-2021	Dental Hygienists	390	510	110	28.4%	210	\$71,382	Associate's degree	None	None
29-2031	Cardiovascular Technologists and Technicians	220	280	60	25.3%	90	\$46,540	Associate's degree	None	None
29-2032	Diagnostic Medical Sonographers	180	250	70	40.3%	100	\$63,284	Associate's degree	None	None
29-2033	Nuclear Medicine Technologists	60	70	10	15.6%	20	\$57,266	Associate's degree	None	None
29-2034	Radiologic Technologists	640	740	110	17.1%	200	\$47,700	Associate's degree	None	None
29-2035	Magnetic Resonance Imaging Technologists	120	140	20	18.8%	40	\$60,437	Associate's degree	Less than 5 years	None
29-2041	Emergency Medical Technicians and Paramedics	580	720	140	23.3%	300	\$31,180	Postsecondary non-degree award	None	None
29-2051	Dietetic Technicians	60	70	10	17.2%	20	\$22,272	Associate's degree	None	None
29-2052	Pharmacy Technicians	980	1,160	180	18.6%	280	\$26,240	High school diploma or equivalent	None	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	210	210	0	0.5%	20	\$27,508	Postsecondary non-degree award	None	Short-term on-the-job training
29-2054	Respiratory Therapy Technicians	80	90	10	12.0%	20	N/A	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	600	750	150	24.7%	210	\$35,921	Postsecondary non-degree award	None	None
29-2056	Veterinary Technologists and Technicians	170	200	30	19.6%	50	\$25,980	Associate's degree	None	None
29-2057	Ophthalmic Medical Technicians	160	190	40	23.9%	50	\$29,757	Postsecondary non-degree award	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	2,190	2,660	470	21.4%	1,000	\$40,889	Postsecondary non-degree award	None	None
29-2071	Medical Records and Health Information Technicians	1,010	1,200	190	19.1%	460	\$32,704	Postsecondary non-degree award	None	None
29-2081	Opticians, Dispensing	180	220	40	21.1%	90	\$21,281	High school diploma or equivalent	None	Long-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
29-2091	Orthotists and Prosthetists	50	60	20	30.6%	20	\$108,761	Master's degree	None	Internship/residency
29-2092	Hearing Aid Specialists	80	100	20	20.5%	20	N/A	High school diploma or equivalent	None	None
29-2099	Health Technologists and Technicians, All Other	150	180	30	23.1%	50	\$47,128	High school diploma or equivalent	None	None
29-9011	Occupational Health and Safety Specialists	150	160	10	8.7%	50	\$62,082	Bachelor's degree	None	Short-term on-the-job training
29-9091	Athletic Trainers	100	120	20	24.2%	50	\$30,685	Bachelor's degree	None	None
29-9099	Healthcare Practitioners and Technical Workers, All Other	40	40	0	13.5%	20	\$27,729	Bachelor's degree	None	None
31-1011	Home Health Aides	2,300	3,260	960	41.5%	1,390	\$24,483	Less than high school	None	Short-term on-the-job training
31-1013	Psychiatric Aides	50	50	0	4.3%	10	N/A	High school diploma or equivalent	None	Short-term on-the-job training
31-1014	Nursing Assistants	3,760	4,420	660	17.6%	1,380	\$22,666	Postsecondary non-degree award	None	None
31-1015	Orderlies	320	360	40	12.4%	100	\$22,663	High school diploma or equivalent	None	Short-term on-the-job training
31-2011	Occupational Therapy Assistants	190	260	70	38.6%	120	\$61,673	Associate's degree	None	None
31-2021	Physical Therapist Assistants	240	330	90	35.7%	140	\$57,232	Associate's degree	None	None
31-2022	Physical Therapist Aides	80	110	30	35.9%	40	\$25,801	High school diploma or equivalent	None	Short-term on-the-job training
31-9011	Massage Therapists	190	220	30	15.5%	50	\$28,726	Postsecondary non-degree award	None	None
31-9091	Dental Assistants	870	1,040	170	19.6%	350	\$32,036	Postsecondary non-degree award	None	None
31-9092	Medical Assistants	1,540	1,900	360	23.3%	650	\$29,383	Postsecondary non-degree award	None	None
31-9093	Medical Equipment Preparers	100	120	20	15.4%	40	\$31,476	High school diploma or equivalent	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	220	210	0	-0.9%	40	\$33,815	Postsecondary non-degree award	None	None
31-9095	Pharmacy Aides	80	90	10	13.8%	30	\$19,470	High school diploma or equivalent	None	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	440	430	0	-0.9%	80	\$19,000	High school diploma or equivalent	None	Short-term on-the-job training
31-9097	Phlebotomists	270	330	60	21.6%	110	\$28,775	Postsecondary non-degree award	None	None
31-9099	Healthcare Support Workers, All Other	60	70	0	8.1%	20	\$35,269	High school diploma or equivalent	None	None
33-1011	First-Line Supervisors of Correctional Officers	90	100	0	3.2%	40	\$44,502	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors of Police and Detectives	180	190	10	3.8%	60	\$66,280	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	80	80	0	6.7%	40	\$51,382	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
33-1099	First-Line Supervisors of Protective Service Workers, All Other	150	170	10	7.8%	50	\$41,648	High school diploma or equivalent	Less than 5 years	None
33-2011	Firefighters	250	270	20	6.7%	90	\$34,664	Postsecondary non-degree award	None	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	790	820	30	4.0%	240	\$30,384	High school diploma or equivalent	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	470	490	20	3.8%	120	\$48,038	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	1,860	1,940	80	4.4%	660	\$47,389	High school diploma or equivalent	None	Moderate-term on-the-job training
33-9032	Security Guards	2,380	2,630	250	10.4%	610	\$23,920	High school diploma or equivalent	None	Short-term on-the-job training
33-9091	Crossing Guards	30	40	0	8.8%	10	\$27,125	High school diploma or equivalent	None	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	170	200	30	17.0%	150	\$17,932	High school diploma or equivalent	None	Short-term on-the-job training
33-9093	Transportation Security Screeners	140	150	10	7.9%	40	\$35,481	High school diploma or equivalent	None	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	130	140	10	9.1%	100	\$27,408	High school diploma or equivalent	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	160	170	10	8.9%	40	\$29,958	High school diploma or equivalent	5 years or more	None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	2,920	3,390	470	16.1%	1,300	\$23,945	High school diploma or equivalent	Less than 5 years	None
35-2011	Cooks, Fast Food	2,740	2,830	90	3.2%	630	\$17,616	Less than high school	None	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	1,500	1,650	150	10.2%	450	\$21,588	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	3,020	3,600	580	19.3%	1,180	\$22,042	Less than high school	Less than 5 years	Moderate-term on-the-job training
35-2015	Cooks, Short Order	100	100	0	4.0%	20	\$20,271	Less than high school	None	Short-term on-the-job training
35-2021	Food Preparation Workers	1,690	1,790	100	5.9%	580	\$18,504	Less than high school	None	Short-term on-the-job training
35-3011	Bartenders	860	1,000	140	16.4%	460	\$18,005	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	6,050	7,160	1,110	18.4%	3,420	\$18,093	Less than high school	None	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,180	1,240	60	5.4%	780	\$17,580	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	7,080	7,780	700	9.9%	4,100	\$18,093	Less than high school	None	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	790	910	120	14.9%	350	\$18,230	Less than high school	None	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,080	1,190	120	11.1%	590	\$18,087	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	1,140	1,260	120	10.3%	620	\$18,825	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	820	900	80	9.4%	690	\$17,754	Less than high school	None	None
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	720	800	70	9.8%	240	\$30,501	High school diploma or equivalent	Less than 5 years	None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	340	380	40	12.5%	80	\$65,277	High school diploma or equivalent	Less than 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	4,810	5,330	520	10.7%	1,420	\$20,458	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	2,120	2,390	270	12.8%	690	\$18,916	Less than high school	None	Short-term on-the-job training
37-2021	Pest Control Workers	260	300	40	17.3%	120	\$28,163	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	2,440	2,720	280	11.4%	890	\$23,065	Less than high school	None	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	130	140	20	11.8%	50	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	90	100	10	7.7%	30	\$18,349	Less than high school	None	Short-term on-the-job training
39-1012	Slot Supervisors	80	90	0	6.1%	20	\$30,200	High school diploma or equivalent	Less than 5 years	None
39-1021	First-Line Supervisors of Personal Service Workers	420	460	40	8.7%	120	\$25,646	High school diploma or equivalent	Less than 5 years	None
39-2011	Animal Trainers	140	160	20	10.7%	80	\$25,077	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	430	480	50	12.3%	100	\$20,020	Less than high school	None	Short-term on-the-job training
39-3011	Gaming Dealers	60	80	10	18.8%	20	\$17,851	High school diploma or equivalent	None	Short-term on-the-job training
39-3021	Motion Picture Projectionists	40	30	0	-11.1%	10	N/A	Less than high school	None	Short-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
39-3031	Ushers, Lobby Attendants, and Ticket Takers	300	300	0	1.0%	160	\$17,936	Less than high school	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	300	360	60	21.1%	210	\$17,714	Less than high school	None	Short-term on-the-job training
39-4011	Embalmers	70	60	-10	-16.7%	20	N/A	Postsecondary non-degree av	None	Short-term on-the-job training
39-4021	Funeral Attendants	70	70	0	-1.5%	10	\$18,280	High school diploma or equiv	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Directors	50	50	0	8.0%	20	\$48,879	Associate's degree	None	Long-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,020	1,110	100	9.6%	340	\$21,163	Postsecondary non-degree av	None	None
39-5094	Skincare Specialists	220	310	80	36.6%	100	\$19,439	Postsecondary non-degree av	None	None
39-6011	Baggage Porters and Bellhops	80	90	10	9.4%	30	\$18,907	High school diploma or equiv	None	Short-term on-the-job training
39-7011	Tour Guides and Escorts	40	40	10	18.9%	20	\$27,523	High school diploma or equiv	None	Moderate-term on-the-job training
39-9011	Childcare Workers	1,490	1,730	240	15.9%	680	\$19,250	High school diploma or equiv	None	Short-term on-the-job training
39-9021	Personal Care Aides	3,250	4,850	1,600	49.1%	1,830	\$19,309	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	660	810	150	22.4%	230	\$40,602	High school diploma or equiv	None	Short-term on-the-job training
39-9032	Recreation Workers	420	500	80	18.0%	130	\$19,745	Bachelor's degree	None	None
39-9041	Residential Advisors	170	200	30	19.9%	110	\$23,700	High school diploma or equiv	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	40	40	10	19.4%	20	N/A	High school diploma or equiv	None	Short-term on-the-job training
41-1011	First-Line Supervisors of Retail Sales Workers	5,820	5,990	170	2.9%	1,430	\$33,430	High school diploma or equiv	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,180	1,140	-40	-3.5%	150	\$59,846	High school diploma or equiv	Less than 5 years	None
41-2011	Cashiers	8,570	8,740	160	1.9%	3,870	\$18,574	Less than high school	None	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	30	30	0	6.3%	20	\$22,983	High school diploma or equiv	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	1,000	1,030	30	2.7%	280	\$20,837	Less than high school	None	Short-term on-the-job training
41-2022	Parts Salespersons	600	640	30	5.7%	190	\$34,416	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	12,060	13,090	1,030	8.6%	5,160	\$20,966	Less than high school	None	Short-term on-the-job training
41-3011	Advertising Sales Agents	480	450	-30	-5.7%	150	\$39,283	High school diploma or equiv	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	1,160	1,260	100	8.4%	370	\$42,008	High school diploma or equiv	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	800	870	70	9.3%	260	\$72,556	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	190	160	-30	-15.5%	30	\$28,469	High school diploma or equiv	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	1,360	1,520	160	11.5%	530	\$47,151	High school diploma or equiv	None	Short-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Produ	1,700	1,820	120	7.1%	450	\$62,304	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific	4,760	5,130	370	7.9%	1,300	\$50,130	High school diploma or equiv	None	Moderate-term on-the-job training
41-9021	Real Estate Brokers	360	400	40	9.7%	70	\$22,459	High school diploma or equiv	Less than 5 years	None
41-9022	Real Estate Sales Agents	1,200	1,250	50	4.4%	160	\$56,461	High school diploma or equiv	None	Long-term on-the-job training
41-9031	Sales Engineers	120	120	0	1.6%	20	\$80,492	Bachelor's degree	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
41-9041	Telemarketers	2,000	2,080	80	3.9%	490	\$20,796	Less than high school	None	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	820	930	110	13.5%	270	\$21,367	High school diploma or equivalent	None	None
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4,560	5,010	460	10.0%	1,540	\$46,784	High school diploma or equivalent	Less than 5 years	None
43-2011	Switchboard Operators, Including Answering Service	300	250	-50	-15.6%	60	\$26,261	High school diploma or equivalent	None	Short-term on-the-job training
43-3011	Bill and Account Collectors	1,810	2,040	230	12.9%	740	\$31,126	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	1,400	1,610	210	14.8%	460	\$33,738	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	7,430	8,130	710	9.5%	1,390	\$34,102	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	70	80	0	6.9%	20	\$22,519	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	560	630	60	10.8%	180	\$36,658	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	210	210	10	2.9%	80	\$39,325	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	1,660	1,660	0	-0.2%	780	\$24,309	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	60	70	10	12.7%	30	N/A	High school diploma or equivalent	None	Short-term on-the-job training
43-4011	Brokerage Clerks	30	30	0	3.3%	10	\$45,731	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	240	270	30	13.3%	70	\$28,447	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	110	100	-10	-7.1%	10	\$28,625	High school diploma or equivalent	None	Short-term on-the-job training
43-4051	Customer Service Representatives	8,980	10,400	1,420	15.8%	3,860	\$28,374	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	70	80	10	14.7%	20	\$47,719	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	480	450	-30	-5.9%	110	\$27,098	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	630	750	110	18.0%	410	\$18,417	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	320	330	10	3.1%	70	\$29,928	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	260	290	40	14.1%	150	\$19,496	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	520	550	30	6.2%	70	\$30,273	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	240	220	-20	-7.0%	60	\$29,194	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4151	Order Clerks	460	440	-20	-4.6%	120	\$28,336	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	440	440	0	1.1%	120	\$34,470	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	2,780	3,020	230	8.4%	980	\$26,647	High school diploma or equivalent	None	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	520	420	-90	-18.1%	70	\$50,618	High school diploma or equivalent	None	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	510	450	-60	-11.5%	110	\$37,596	High school diploma or equivalent	None	Short-term on-the-job training
43-5011	Cargo and Freight Agents	100	110	0	2.9%	30	\$39,094	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	230	200	-30	-12.5%	30	\$24,351	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	190	200	10	4.6%	60	\$29,175	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	390	420	30	8.5%	150	\$34,248	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
43-5041	Meter Readers, Utilities	300	270	-30	-11.2%	80	\$28,729	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	140	90	-40	-31.1%	20	\$55,584	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	850	640	-210	-25.0%	300	\$57,202	High school diploma or equivalent	None	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	430	310	-120	-28.0%	30	\$54,522	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	1,100	1,130	30	2.5%	300	\$47,185	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	1,850	1,850	10	0.4%	490	\$30,674	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	4,960	4,860	-110	-2.2%	1,500	\$22,150	Less than high school	None	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	390	440	50	12.2%	130	\$31,115	High school diploma or equivalent	None	Short-term on-the-job training
43-6011	Executive Secretaries and Executive Administrative Assistants	2,620	2,560	-60	-2.3%	320	\$40,115	High school diploma or equivalent	Less than 5 years	None
43-6012	Legal Secretaries	710	660	-40	-5.8%	80	\$39,163	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	1,430	1,860	440	30.6%	610	\$29,056	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	4,940	5,440	490	10.0%	1,090	\$29,209	High school diploma or equivalent	None	Short-term on-the-job training
43-9011	Computer Operators	220	180	-40	-16.1%	20	\$31,722	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9021	Data Entry Keyers	630	470	-160	-25.6%	80	\$26,914	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9022	Word Processors and Typists	150	110	-40	-25.3%	0	\$40,295	High school diploma or equivalent	None	Short-term on-the-job training
43-9031	Desktop Publishers	80	80	0	3.8%	20	\$42,811	Associate's degree	None	Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,150	1,230	80	7.0%	380	\$33,310	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	140	130	-10	-9.7%	30	\$22,573	High school diploma or equivalent	None	Short-term on-the-job training
43-9061	Office Clerks, General	7,380	7,680	290	3.9%	1,840	\$26,697	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	160	140	-20	-11.5%	40	\$27,038	High school diploma or equivalent	None	Short-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	200	200	0	-0.5%	60	\$31,879	High school diploma or equivalent	None	Short-term on-the-job training
45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	90	90	0	1.2%	20	\$34,962	High school diploma or equivalent	Less than 5 years	None
45-2041	Graders and Sorters, Agricultural Products	50	50	0	4.1%	10	N/A	Less than high school	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	220	210	-10	-6.3%	70	\$24,007	Less than high school	None	Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	210	240	30	12.1%	90	\$19,668	Less than high school	None	Short-term on-the-job training
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,990	2,360	370	18.6%	580	\$53,991	High school diploma or equivalent	5 years or more	None
47-2011	Boilermakers	40	40	0	-4.4%	20	\$45,589	High school diploma or equivalent	None	Apprenticeship
47-2021	Brickmasons and Blockmasons	150	190	50	32.0%	60	\$43,732	High school diploma or equivalent	None	Apprenticeship
47-2022	Stonemasons	70	80	10	20.6%	20	N/A	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	1,790	2,140	340	19.2%	570	\$32,722	High school diploma or equivalent	None	Apprenticeship
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	30	30	0	11.1%	10	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	60	70	10	11.3%	20	\$32,871	Less than high school	None	Long-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
47-2051	Cement Masons and Concrete Finishers	820	1,030	200	24.6%	300	\$32,192	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	3,770	4,530	760	20.2%	1,570	\$28,252	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	290	320	30	9.3%	70	\$42,075	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,140	1,320	180	15.3%	430	\$36,382	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	550	610	60	11.3%	110	\$35,502	Less than high school	None	Moderate-term on-the-job training
47-2082	Tapers	70	80	10	10.1%	10	\$37,208	Less than high school	None	Moderate-term on-the-job training
47-2111	Electricians	1,320	1,570	250	18.7%	500	\$48,771	High school diploma or equivalent	None	Apprenticeship
47-2121	Glaziers	70	80	10	16.2%	30	\$33,918	High school diploma or equivalent	None	Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	150	180	30	22.6%	50	N/A	Less than high school	None	Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	30	50	10	42.4%	20	\$45,026	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	1,060	1,190	130	12.3%	290	\$34,707	Less than high school	None	Moderate-term on-the-job training
47-2151	Pipelayers	120	140	20	13.9%	30	\$29,608	Less than high school	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	1,400	1,650	250	18.1%	430	\$42,938	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	200	210	20	7.7%	60	\$34,782	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	680	790	110	16.6%	240	\$38,678	High school diploma or equivalent	None	Apprenticeship
47-2221	Structural Iron and Steel Workers	260	310	50	17.8%	130	\$42,906	High school diploma or equivalent	None	Apprenticeship
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	120	170	40	37.2%	60	\$23,299	Less than high school	None	Short-term on-the-job training
47-3012	Helpers--Carpenters	180	220	40	25.0%	70	\$24,386	Less than high school	None	Short-term on-the-job training
47-3013	Helpers--Electricians	340	450	110	32.1%	160	\$29,954	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	360	430	70	20.4%	130	\$26,079	High school diploma or equivalent	None	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	90	110	20	22.7%	30	N/A	Less than high school	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	160	180	20	9.4%	50	\$47,826	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4031	Fence Erectors	110	140	30	28.2%	60	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	40	40	0	13.9%	10	\$23,859	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	190	200	10	6.2%	40	\$32,572	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	80	100	10	15.3%	30	\$23,805	Less than high school	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	190	200	20	9.0%	90	\$50,857	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	130	130	10	6.3%	60	\$55,122	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	790	880	90	11.5%	410	\$38,626	Less than high school	None	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	40	40	0	2.3%	10	\$35,550	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	90	120	20	23.7%	40	N/A	High school diploma or equivalent	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	550	600	50	9.3%	200	\$32,517	Less than high school	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
47-5081	Helpers--Extraction Workers	140	150	10	5.7%	40	\$40,661	High school diploma or equivalent	None	Moderate-term on-the-job training
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,370	1,420	50	3.4%	420	\$59,439	High school diploma or equivalent	Less than 5 years	None
49-2011	Computer, Automated Teller, and Office Machine Repairers	200	200	0	0.5%	40	\$33,030	Some college, no degree	None	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	340	350	10	2.9%	60	\$46,504	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	530	530	0	-0.6%	110	\$44,363	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	50	50	0	-3.9%	10	\$43,040	Postsecondary non-degree award	None	Long-term on-the-job training
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	40	40	0	8.3%	10	\$42,491	Postsecondary non-degree award	None	Long-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	280	290	10	5.0%	70	\$44,209	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	60	70	10	20.0%	20	\$77,529	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	110	100	-10	-5.5%	10	\$28,331	Postsecondary non-degree award	None	Short-term on-the-job training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	60	50	-10	-20.3%	20	\$30,519	Postsecondary non-degree award	None	None
49-2098	Security and Fire Alarm Systems Installers	200	220	30	13.8%	70	\$38,463	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	2,930	2,770	-160	-5.6%	790	\$44,811	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	400	440	40	9.6%	110	\$44,485	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	60	60	10	10.3%	20	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	1,640	1,740	100	5.8%	510	\$34,549	High school diploma or equivalent	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	960	1,010	50	4.8%	250	\$44,327	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	280	300	20	8.5%	100	\$42,978	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	30	30	0	-10.0%	10	N/A	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	90	90	0	3.4%	20	\$38,355	High school diploma or equivalent	None	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	80	80	0	2.4%	20	\$30,833	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3093	Tire Repairers and Changers	230	240	20	7.5%	100	\$21,185	High school diploma or equivalent	None	Short-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	110	120	10	6.3%	40	\$44,251	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	800	950	150	18.7%	350	\$44,135	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	260	260	0	-1.2%	80	\$31,996	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	1,470	1,740	280	18.7%	700	\$47,831	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	410	480	60	15.7%	120	\$40,215	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9044	Millwrights	30	40	10	24.2%	10	\$43,008	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	200	240	40	21.5%	110	\$50,785	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	650	660	0	0.3%	160	\$37,706	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	120	160	30	25.0%	60	\$38,101	Associate's degree	None	Moderate-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All Other	30	30	0	0.0%	10	\$28,829	High school diploma or equivalent	None	Long-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
49-9071	Maintenance and Repair Workers, General	3,530	3,780	250	7.2%	930	\$34,750	High school diploma or equivalent	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	180	190	10	3.9%	20	\$30,210	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	70	70	0	6.0%	30	\$42,464	High school diploma or equivalent	None	Long-term on-the-job training
49-9096	Riggers	40	40	10	25.0%	20	\$39,649	High school diploma or equivalent	None	Short-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	660	730	70	10.5%	270	\$27,362	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	720	750	20	3.3%	140	\$49,642	High school diploma or equivalent	None	Moderate-term on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	2,360	2,430	60	2.6%	400	\$54,973	Postsecondary non-degree award	Less than 5 years	None
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	910	1,040	130	14.3%	280	\$41,108	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	50	50	0	-5.8%	10	\$35,946	High school diploma or equivalent	None	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	560	530	-20	-4.3%	70	\$27,794	High school diploma or equivalent	None	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	500	520	20	3.4%	80	\$39,936	High school diploma or equivalent	None	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	400	420	20	4.5%	80	\$29,989	High school diploma or equivalent	None	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	590	670	80	13.2%	320	\$33,606	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	100	100	0	1.0%	20	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2092	Team Assemblers	4,830	5,280	450	9.2%	1,210	\$31,084	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	350	390	40	11.3%	100	\$25,960	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3011	Bakers	540	580	40	7.0%	170	\$22,434	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	240	250	10	3.3%	70	\$24,487	Less than high school	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	50	60	0	3.8%	20	\$27,545	Less than high school	None	Short-term on-the-job training
51-3023	Slaughters and Meat Packers	80	80	0	2.6%	20	N/A	Less than high school	None	Short-term on-the-job training
51-3092	Food Batchmakers	140	140	0	2.2%	50	\$23,670	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	250	260	10	4.7%	80	\$25,145	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	680	830	150	22.3%	340	\$40,112	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	50	70	20	34.0%	30	\$56,180	High school diploma or equivalent	None	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	190	170	-20	-10.2%	40	\$34,836	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	40	40	0	-6.8%	10	\$49,953	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	190	190	0	-2.1%	40	\$35,194	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	840	830	-20	-2.0%	70	\$31,218	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	160	130	-30	-18.4%	30	\$37,144	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	130	120	-10	-6.3%	30	\$32,834	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	260	240	-20	-8.0%	50	\$41,275	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	50	50	0	-5.9%	10	\$29,423	High school diploma or equivalent	None	Moderate-term on-the-job training

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Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
51-4041	Machinists	2,170	2,500	320	15.0%	820	\$37,262	High school diploma or equivalent	None	Long-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	20	30	0	12.0%	10	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	60	50	-10	-10.0%	10	\$23,654	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	100	90	-10	-8.2%	10	\$23,951	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	160	150	-10	-6.9%	30	\$29,786	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	190	200	10	5.2%	20	\$47,093	High school diploma or equivalent	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	3,350	3,650	300	9.0%	1,120	\$40,257	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	250	310	70	26.8%	130	\$42,463	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	70	70	0	5.9%	20	\$35,250	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	100	100	0	-3.1%	20	\$30,209	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	50	50	0	6.1%	10	\$31,262	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	70	90	10	17.8%	20	\$33,890	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5111	Prepress Technicians and Workers	130	120	-10	-8.5%	30	\$32,902	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	370	360	0	-1.1%	60	\$32,101	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	70	70	0	-4.3%	10	\$26,040	High school diploma or equivalent	None	Short-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	670	720	50	6.8%	240	\$20,742	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	200	210	0	2.0%	20	\$19,414	Less than high school	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	150	120	-30	-20.1%	10	\$22,270	Less than high school	None	Short-term on-the-job training
51-6093	Upholsterers	100	100	0	0.0%	30	\$38,076	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	200	220	20	9.4%	40	\$31,811	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	30	30	0	18.5%	10	\$28,720	High school diploma or equivalent	None	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	60	70	10	20.3%	20	\$29,206	High school diploma or equivalent	None	Short-term on-the-job training
51-7099	Woodworkers, All Other	30	40	0	8.8%	10	N/A	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8013	Power Plant Operators	80	90	10	8.5%	30	\$59,146	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	140	150	20	11.1%	60	\$49,594	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	160	170	10	5.5%	70	\$34,495	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	80	80	0	-4.9%	30	N/A	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	70	60	-10	-12.5%	30	\$51,806	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	560	530	-30	-4.8%	210	\$85,314	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	130	130	0	-3.1%	50	\$40,894	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	60	60	0	3.3%	20	\$19,036	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	30	30	0	0.0%	10	\$25,650	High school diploma or equivalent	None	Moderate-term on-the-job training

TULSA Workforce Investment Area Occupational Projections 2012-2022

Occupation Code	Occupation Title	Employment		Employment Change 2012-2022		Total Openings	Tulsa WIA	Entry-Level Education	Work Experience in a Related Occupation	On-the-job Training
		2012	2022	Numeric	Percent		Median Annual Wage			
51-9022	Grinding and Polishing Workers, Hand	160	170	10	3.8%	50	\$29,313	Less than high school	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	180	180	0	2.3%	50	\$34,416	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	90	80	-10	-12.2%	20	\$31,809	Less than high school	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	140	140	0	2.1%	30	\$30,527	High school diploma or equivalent	None	Short-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	50	50	0	1.9%	20	\$29,630	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	90	90	0	1.2%	20	\$30,865	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,260	2,490	220	9.8%	720	\$41,140	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	50	50	0	1.9%	10	N/A	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	150	160	10	6.2%	60	\$38,008	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	110	130	20	15.5%	50	\$29,300	High school diploma or equivalent	None	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	180	210	30	16.1%	90	\$20,140	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1,010	1,030	20	2.2%	260	\$22,251	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	520	560	30	6.5%	130	\$34,478	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	240	260	20	9.7%	70	\$45,242	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	30	30	0	0.0%	10	\$24,585	Less than high school	None	Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	120	110	0	-4.2%	40	\$26,506	High school diploma or equivalent	None	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	30	30	0	3.3%	10	\$26,153	Less than high school	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	70	80	10	12.3%	30	\$27,999	High school diploma or equivalent	None	Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	440	430	-10	-1.6%	40	\$45,738	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	1,840	2,040	210	11.3%	520	\$26,296	Less than high school	None	Short-term on-the-job training
51-9199	Production Workers, All Other	390	420	40	9.0%	140	\$30,240	High school diploma or equivalent	None	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	90	90	0	-1.1%	20	\$49,315	High school diploma or equivalent	Less than 5 years	None
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	410	430	20	5.9%	140	\$43,870	High school diploma or equivalent	Less than 5 years	None
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	1,260	1,270	10	0.6%	350	\$51,100	High school diploma or equivalent	Less than 5 years	None
53-2011	Airline Pilots, Copilots, and Flight Engineers	30	20	0	-15.4%	10	\$99,489	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	120	120	0	-4.0%	40	\$88,607	High school diploma or equivalent	None	Moderate-term on-the-job training
53-2021	Air Traffic Controllers	70	70	0	1.4%	30	\$87,861	Associate's degree	None	Long-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	350	360	10	2.8%	80	\$27,842	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School or Special Client	890	870	-10	-1.4%	160	\$25,264	High school diploma or equivalent	None	Short-term on-the-job training
53-3031	Driver/Sales Workers	2,210	2,430	220	9.7%	570	\$23,891	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	4,500	4,840	340	7.5%	1,060	\$39,312	Postsecondary non-degree award	None	Short-term on-the-job training
53-3033	Light Truck or Delivery Services Drivers	1,670	1,710	30	2.0%	300	\$28,512	High school diploma or equivalent	None	Short-term on-the-job training

TULSA Workforce Investment Area Occupational Projections 2012-2022

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		2012	2022	Numeric	Percent		Median Annual Wage			
53-3041	Taxi Drivers and Chauffeurs	200	220	20	10.8%	40	\$20,834	Less than high school	None	Short-term on-the-job training
53-6021	Parking Lot Attendants	290	290	0	-0.3%	140	\$22,250	Less than high school	None	Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	160	180	20	10.4%	60	\$19,606	Less than high school	None	Short-term on-the-job training
53-6051	Transportation Inspectors	80	80	0	0.0%	30	\$44,860	High school diploma or equivalent	None	Moderate-term on-the-job training
53-6061	Transportation Attendants, Except Flight Attendants	40	40	0	5.4%	10	\$20,773	High school diploma or equivalent	None	Short-term on-the-job training

Notes:

Tulsa WIA Median Annual Wage data is from the 2014 Tulsa WIA Occupational Employment Statistics (OES).