

NORTHWEST Workforce Investment Area Occupational Projections 2010-2020

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			
00-0000	Total Occupations	128,500	142,040	13,540	10.5%	45,250	\$30,049			
11-1011	Chief Executives	620	650	30	4.7%	190	\$120,330	Bachelor's degree	More than 5 years	None
11-1021	General and Operations Managers	2,170	2,210	40	1.6%	440	\$73,939	Associate's degree	1 to 5 years	None
11-1031	Legislators	170	170	0	0.0%	40	\$24,632	Bachelor's degree	1 to 5 years	None
11-2021	Marketing Managers	80	90	10	13.9%	30	\$75,900	Bachelor's degree	1 to 5 years	None
11-2022	Sales Managers	150	160	10	7.6%	50	\$81,912	Bachelor's degree	1 to 5 years	None
11-3021	Computer and Information Systems Managers	120	140	20	16.9%	40	\$88,347	Bachelor's degree	More than 5 years	None
11-3031	Financial Managers	350	390	40	12.0%	110	\$79,967	Bachelor's degree	More than 5 years	None
11-3051	Industrial Production Managers	160	200	30	20.4%	70	\$76,160	Bachelor's degree	1 to 5 years	None
11-3061	Purchasing Managers	30	40	10	15.2%	20	\$74,016	Bachelor's degree	More than 5 years	None
11-3071	Transportation, Storage, and Distribution Managers	50	60	10	9.8%	20	\$70,766	High school diploma or equivalent	More than 5 years	None
11-3121	Human Resources Managers	40	40	0	5.4%	10	\$60,510	Bachelor's degree	1 to 5 years	None
11-3131	Training and Development Managers	40	40	10	18.9%	20	\$54,207	Bachelor's degree	1 to 5 years	None
11-9021	Construction Managers	320	350	40	11.4%	60	\$68,913	Associate's degree	More than 5 years	None
11-9031	Education Administrators, Preschool and Child Care Center/Program	50	60	10	18.8%	20	\$34,266	Bachelor's degree	1 to 5 years	None
11-9032	Education Administrators, Elementary and Secondary School	250	270	20	6.8%	90	\$68,383	Master's degree	1 to 5 years	None
11-9041	Engineering Managers	70	80	0	5.6%	20	\$104,565	Bachelor's degree	More than 5 years	None
11-9051	Food Service Managers	330	320	-10	-3.1%	60	\$39,420	High school diploma or equivalent	1 to 5 years	None
11-9081	Lodging Managers	60	70	10	7.8%	20	\$34,611	High school diploma or equivalent	1 to 5 years	None
11-9111	Medical and Health Services Managers	310	370	60	18.1%	130	\$71,061	Bachelor's degree	None	None
11-9121	Natural Sciences Managers	30	30	0	-6.9%	20	\$100,223	Bachelor's degree	More than 5 years	None
11-9131	Postmasters and Mail Superintendents	120	80	-40	-35.8%	20	\$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	350	370	30	8.1%	100	\$39,277	High school diploma or equivalent	1 to 5 years	None
11-9151	Social and Community Service Managers	90	100	20	19.5%	40	\$49,842	Bachelor's degree	1 to 5 years	None
11-9161	Emergency Management Directors	40	50	10	12.5%	10	\$42,698	Bachelor's degree	1 to 5 years	Long-term on-the-job training
11-9199	Managers, All Other	100	110	10	7.8%	30	\$89,165	High school diploma or equivalent	1 to 5 years	None
13-1021	Purchasing Agents and Buyers, Farm Products	40	40	0	4.9%	10	\$37,100	High school diploma or equivalent	None	Long-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	110	130	20	21.0%	50	\$40,692	High school diploma or equivalent	None	Long-term on-the-job training
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	180	200	20	8.7%	70	\$54,468	High school diploma or equivalent	None	Long-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	80	80	-10	-7.2%	20	\$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	220	260	40	18.0%	70	\$42,999	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	130	170	40	32.5%	70	\$52,398	Bachelor's degree	None	None

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13-1078	Human resources, labor relations, and training specialists, all other	130	160	30	20.0%	50	\$46,535	Bachelor's degree	None	None
13-1111	Management Analysts	150	190	50	33.1%	70	\$63,858	Bachelor's degree	1 to 5 years	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	30	30	0	-3.0%	10	\$47,399	Bachelor's degree	None	None
13-1151	Training and Development Specialists	120	150	30	24.2%	50	\$47,755	Bachelor's degree	None	None
13-1161	Market Research Analysts and Marketing Specialists	80	120	30	41.0%	60	\$48,395	Bachelor's degree	None	None
13-1199	Business Operations Specialists, All Other	250	240	-20	-6.7%	50	\$64,177	High school diploma or equivalent	Less than 1 year	Long-term on-the-job training
13-2011	Accountants and Auditors	970	1,150	170	17.7%	380	\$51,296	Bachelor's degree	None	None
13-2021	Appraisers and Assessors of Real Estate	60	70	10	11.3%	20	\$34,793	High school diploma or equivalent	None	Apprenticeship
13-2031	Budget Analysts	40	50	0	9.1%	10	\$59,983	Bachelor's degree	None	None
13-2041	Credit Analysts	30	30	0	13.8%	10	\$49,316	Bachelor's degree	None	None
13-2051	Financial Analysts	30	40	10	21.9%	10	\$60,957	Bachelor's degree	None	None
13-2053	Insurance Underwriters	30	30	0	0.0%	10	\$51,491	Bachelor's degree	None	Moderate-term on-the-job training
13-2071	Loan Counselors	70	80	10	11.6%	30	\$30,283	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	450	500	40	9.5%	160	\$42,316	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2081	Tax Examiners, Collectors, and Revenue Agents	50	60	0	5.7%	20	\$37,908	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	60	70	10	16.1%	20	\$26,772	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	40	30	0	-8.6%	10	\$59,995	Bachelor's degree	None	Moderate-term on-the-job training
15-1121	Computer Systems Analysts	160	190	30	19.7%	60	\$64,448	Bachelor's degree	None	None
15-1132	Software Developers, Applications	140	180	40	29.7%	60	\$65,853	Bachelor's degree	None	None
15-1133	Software Developers, Systems Software	40	50	10	27.0%	10	\$87,458	Bachelor's degree	None	None
15-1141	Database Administrators	40	50	10	27.8%	20	\$59,441	Bachelor's degree	1 to 5 years	None
15-1142	Network and computer systems architects and administrators	170	210	40	25.4%	70	\$54,887	Bachelor's degree	None	None
15-1150	Computer Support Specialists	370	410	40	9.8%	130	\$38,900	Some college, no degree	None	Moderate-term on-the-job training
15-1179	Information Security Analysts, Web Developers, and Computer Network Architects	70	80	10	9.7%	20	\$59,373	Bachelor's degree	1 to 5 years	None
17-1022	Surveyors	40	50	10	30.6%	20	\$47,318	Bachelor's degree	None	None
17-2051	Civil Engineers	110	130	20	18.0%	40	\$74,354	Bachelor's degree	None	None
17-2071	Electrical Engineers	90	90	10	5.6%	30	\$74,872	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	50	50	0	2.0%	10	\$87,804	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	40	40	0	7.7%	10	\$68,641	Bachelor's degree	None	None
17-2112	Industrial Engineers	130	160	30	22.4%	60	\$71,012	Bachelor's degree	None	None
17-2141	Mechanical Engineers	150	170	20	16.2%	70	\$74,393	Bachelor's degree	None	None
17-2171	Petroleum Engineers	110	140	40	33.3%	60	\$127,542	Bachelor's degree	None	None

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17-3011	Architectural and Civil Drafters	70	80	0	4.1%	20	\$45,796	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	40	40	0	-2.6%	10	\$47,873	Associate's degree	None	None
17-3013	Mechanical Drafters	60	60	10	16.4%	20	\$48,308	Associate's degree	None	None
17-3023	Electrical and Electronic Engineering Technicians	190	210	30	13.5%	60	\$56,586	Associate's degree	None	None
17-3025	Environmental Engineering Technicians	70	80	10	17.1%	30	\$43,052	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	70	80	10	20.9%	30	\$31,971	High school diploma or equivalent	None	Moderate-term on-the-job training
19-2041	Environmental Scientists and Specialists, Including Health	80	100	20	29.5%	50	\$46,618	Bachelor's degree	None	None
19-3031	Clinical, Counseling, and School Psychologists	100	120	20	17.6%	50	\$47,804	Doctoral or professional degree	None	Internship/residency
19-4011	Agricultural and Food Science Technicians	60	70	0	6.3%	30	\$34,008	Associate's degree	None	None
19-4021	Biological Technicians	70	70	0	0.0%	20	\$33,623	Bachelor's degree	None	None
19-4031	Chemical Technicians	80	90	10	15.2%	20	\$38,616	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	30	30	10	20.0%	10	\$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	3.7%	10	\$32,653	Associate's degree	None	Moderate-term on-the-job training
21-1011	Substance Abuse and Behavioral Disorder Counselors	90	110	20	22.5%	40	\$38,278	High school diploma or equivalent	None	Moderate-term on-the-job training
21-1012	Educational, Vocational, and School Counselors	270	310	40	13.3%	90	\$42,035	Master's degree	None	None
21-1014	Mental Health Counselors	90	110	30	29.5%	50	\$42,144	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	190	240	50	25.5%	90	\$25,634	Master's degree	None	None
21-1021	Child, Family, and School Social Workers	300	310	10	1.7%	80	\$31,223	Bachelor's degree	None	None
21-1022	Medical and Public Health Social Workers	80	100	20	28.0%	40	\$42,061	Master's degree	None	None
21-1023	Mental Health and Substance Abuse Social Workers	60	70	10	18.6%	30	\$31,831	Bachelor's degree	None	None
21-1029	Social Workers, All Other	70	80	10	11.9%	20	\$42,879	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	80	90	10	10.1%	30	\$36,958	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	220	250	30	15.0%	80	\$25,219	High school diploma or equivalent	None	Short-term on-the-job training
23-1011	Lawyers	280	310	30	10.1%	80	\$78,167	Doctoral or professional degree	None	None
23-1023	Judges, Magistrate Judges, and Magistrates	30	30	0	0.0%	10	\$118,703	Doctoral or professional degree	More than 5 years	Short-term on-the-job training
23-2011	Paralegals and Legal Assistants	80	90	10	17.9%	30	\$38,221	Associate's degree	None	None
25-1011	Business Teachers, Postsecondary	90	110	20	16.0%	30	\$56,129	Doctoral or professional degree	None	None
25-1072	Nursing Instructors and Teachers, Postsecondary	30	40	0	11.8%	10	\$57,612	Master's degree	None	None
25-1194	Vocational Education Teachers, Postsecondary	260	300	40	14.3%	80	\$52,170	Bachelor's degree	1 to 5 years	None
25-2011	Preschool Teachers, Except Special Education	230	270	40	17.2%	100	\$23,399	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	190	220	30	13.9%	80	\$38,520	Bachelor's degree	None	Internship/residency
25-2021	Elementary School Teachers, Except Special Education	1,440	1,630	190	13.2%	510	\$41,319	Bachelor's degree	None	Internship/residency

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25-2022	Middle School Teachers, Except Special and Vocational Education	720	820	100	13.1%	250	\$41,757	Bachelor's degree	None	Internship/residency
25-2023	Vocational Education Teachers, Middle School	50	50	0	4.3%	10	\$41,706	Bachelor's degree	1 to 5 years	Internship/residency
25-2031	Secondary School Teachers, Except Special and Vocational Education	1,010	1,050	40	3.6%	310	\$42,862	Bachelor's degree	None	Internship/residency
25-2032	Vocational Education Teachers, Secondary School	150	150	0	-2.6%	40	\$46,687	Bachelor's degree	1 to 5 years	Internship/residency
25-2053	Special Education Teachers, Middle School	100	120	20	17.5%	50	\$43,789	Bachelor's degree	None	Internship/residency
25-3999	Teachers and Instructors, All Other	870	960	90	9.8%	220	\$18,777	Bachelor's degree	None	None
25-4031	Library Technicians	140	150	10	10.3%	70	\$20,337	Postsecondary non-degree av	None	None
25-9031	Instructional Coordinators	30	40	0	11.8%	10	\$56,059	Master's degree	More than 5 years	None
25-9041	Teacher Assistants	1,090	1,190	100	8.7%	340	\$18,706	High school diploma or equiv	None	Short-term on-the-job training
27-1023	Floral Designers	80	70	-10	-12.0%	20	\$20,990	High school diploma or equiv	None	Short-term on-the-job training
27-1024	Graphic Designers	70	80	10	7.0%	30	\$33,786	Bachelor's degree	None	None
27-2022	Coaches and Scouts	240	310	70	30.4%	130	\$23,660	High school diploma or equiv	None	Long-term on-the-job training
27-3011	Radio and Television Announcers	110	110	10	4.8%	30	\$20,095	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	80	70	-10	-9.9%	30	\$30,073	Bachelor's degree	None	None
27-3031	Public Relations Specialists	120	140	20	18.8%	50	\$43,338	Bachelor's degree	None	Moderate-term on-the-job training
27-3043	Writers and Authors	70	70	10	7.7%	20	\$31,623	Bachelor's degree	None	Long-term on-the-job training
27-4021	Photographers	120	130	20	14.8%	30	\$24,106	High school diploma or equiv	None	Long-term on-the-job training
29-1011	Chiropractors	80	100	20	23.2%	40	\$50,821	Doctoral or professional degr	None	None
29-1031	Dietitians and Nutritionists	120	140	20	19.1%	60	\$46,545	Bachelor's degree	None	Internship/residency
29-1041	Optometrists	70	90	20	30.4%	50	\$82,494	Doctoral or professional degr	None	None
29-1051	Pharmacists	200	240	40	21.4%	90	\$107,398	Doctoral or professional degr	None	None
29-1062	Family and General Practitioners	150	180	30	19.5%	60	\$174,152	Doctoral or professional degr	None	Internship/residency
29-1069	Physicians and Surgeons, All Other	50	50	10	17.8%	20	\$86,409	Doctoral or professional degr	None	Internship/residency
29-1111	Registered Nurses	1,680	2,020	330	19.7%	640	\$55,867	Associate's degree	None	None
29-1122	Occupational Therapists	30	30	0	14.8%	10	\$66,089	Master's degree	None	None
29-1123	Physical Therapists	90	120	30	33.7%	40	\$77,991	Doctoral or professional degr	None	None
29-1125	Recreational Therapists	50	50	10	13.3%	20	\$41,292	Bachelor's degree	None	None
29-1126	Respiratory Therapists	70	90	10	19.4%	30	\$48,484	Associate's degree	None	None
29-1127	Speech-Language Pathologists	100	120	10	12.5%	30	\$55,719	Master's degree	None	None
29-1131	Veterinarians	80	120	30	41.0%	50	\$73,090	Doctoral or professional degr	None	None
29-2011	Medical and Clinical Laboratory Technologists	120	120	10	5.2%	30	\$50,190	Bachelor's degree	None	None
29-2012	Medical and Clinical Laboratory Technicians	90	90	10	9.4%	30	\$34,781	Associate's degree	None	None

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29-2021	Dental Hygienists	110	150	30	28.3%	60	\$67,365	Associate's degree	None	None
29-2037	Radiologic Technologists and Technicians	150	190	30	20.9%	60	\$48,290	Associate's degree	None	None
29-2041	Emergency Medical Technicians and Paramedics	180	230	50	30.3%	90	\$28,744	Postsecondary non-degree av	None	None
29-2051	Dietetic Technicians	110	120	10	10.3%	30	\$23,513	High school diploma or equiv	None	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	250	320	70	26.6%	110	\$24,916	High school diploma or equiv	None	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	40	30	0	-2.9%	10	\$38,450	Associate's degree	None	Moderate-term on-the-job training
29-2055	Surgical Technologists	80	90	10	12.3%	20	\$33,554	Postsecondary non-degree av	None	None
29-2061	Licensed Practical and Licensed Vocational Nurses	840	960	120	14.7%	350	\$35,483	Postsecondary non-degree av	None	None
29-2071	Medical Records and Health Information Technicians	150	160	20	11.6%	50	\$28,978	Postsecondary non-degree av	None	None
29-9011	Occupational Health and Safety Specialists	50	60	10	14.6%	20	\$67,875	Bachelor's degree	None	Moderate-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	1,690	1,930	240	14.0%	460	\$21,007	Postsecondary non-degree av	None	None
31-2021	Physical Therapist Assistants	80	110	30	38.5%	40	\$47,236	Associate's degree	None	None
31-9091	Dental Assistants	250	310	60	23.2%	110	\$30,073	Postsecondary non-degree av	None	None
31-9092	Medical Assistants	330	380	50	15.9%	100	\$24,856	High school diploma or equiv	None	Moderate-term on-the-job training
31-9094	Medical Transcriptionists	120	110	0	-1.7%	20	\$27,676	Postsecondary non-degree av	None	None
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	90	100	20	21.2%	30	\$24,270	High school diploma or equiv	None	Short-term on-the-job training
31-9799	Healthcare Support Workers, All Other	90	100	10	14.3%	30	\$27,513	High school diploma or equiv	None	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	60	50	0	-1.8%	20	\$45,816	High school diploma or equiv	1 to 5 years	Moderate-term on-the-job training
33-1012	First-Line Supervisors/Managers of Police and Detectives	50	50	0	4.1%	20	\$52,817	High school diploma or equiv	1 to 5 years	Moderate-term on-the-job training
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	50	60	10	13.7%	30	\$63,944	Postsecondary non-degree av	1 to 5 years	None
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	30	30	0	-9.1%	10	\$45,272	High school diploma or equiv	1 to 5 years	None
33-2011	Fire Fighters	320	360	50	14.1%	130	\$35,580	Postsecondary non-degree av	None	Long-term on-the-job training
33-3012	Correctional Officers and Jailers	730	730	10	0.7%	130	\$28,474	High school diploma or equiv	None	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	60	60	0	-3.3%	10	\$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	670	740	70	10.9%	270	\$36,383	High school diploma or equiv	None	Moderate-term on-the-job training
33-9031	Gaming Surveillance Officers and Gaming Investigators	40	40	10	13.2%	10	\$25,635	High school diploma or equiv	None	Short-term on-the-job training
33-9032	Security Guards	460	530	70	14.9%	140	\$24,256	High school diploma or equiv	None	Short-term on-the-job training
33-9091	Crossing Guards	30	30	0	6.7%	10	\$19,210	High school diploma or equiv	None	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	110	120	10	13.3%	80	\$17,829	High school diploma or equiv	None	Short-term on-the-job training
35-1011	Chefs and Head Cooks	40	40	0	0.0%	10	\$30,111	High school diploma or equiv	1 to 5 years	None
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	720	790	70	9.8%	220	\$26,017	High school diploma or equiv	1 to 5 years	None
35-2011	Cooks, Fast Food	640	620	-20	-3.4%	140	\$17,991	Less than high school	None	Short-term on-the-job training

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35-2012	Cooks, Institution and Cafeteria	990	1,020	20	2.3%	230	\$18,874	Less than high school	None	Short-term on-the-job training
35-2014	Cooks, Restaurant	720	820	90	12.6%	250	\$20,021	Less than high school	Less than 1 year	Moderate-term on-the-job training
35-2021	Food Preparation Workers	730	780	50	6.6%	310	\$18,198	Less than high school	None	Short-term on-the-job training
35-3011	Bartenders	320	350	30	8.7%	140	\$18,303	Less than high school	None	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	2,150	2,460	310	14.6%	910	\$17,943	Less than high school	None	Short-term on-the-job training
35-3031	Waiters and Waitresses	1,850	2,000	150	8.2%	1,070	\$18,109	Less than high school	None	Short-term on-the-job training
35-9021	Dishwashers	410	440	30	6.3%	210	\$17,896	Less than high school	None	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	300	310	10	3.3%	220	\$17,860	Less than high school	None	None
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	200	200	0	-1.5%	30	\$29,232	High school diploma or equivalent	1 to 5 years	None
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping	200	220	20	7.5%	40	\$38,282	High school diploma or equivalent	1 to 5 years	None
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,780	1,880	100	5.4%	430	\$19,537	Less than high school	None	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	950	980	30	3.5%	190	\$18,258	Less than high school	None	Short-term on-the-job training
37-2021	Pest Control Workers	50	40	0	-4.4%	20	\$30,463	High school diploma or equivalent	None	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	1,170	1,290	130	10.7%	330	\$20,961	Less than high school	None	Short-term on-the-job training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	70	70	10	7.2%	20	\$29,658	High school diploma or equivalent	1 to 5 years	None
39-3011	Gaming Dealers	50	60	10	23.5%	30	\$19,516	High school diploma or equivalent	None	Moderate-term on-the-job training
39-3091	Amusement and Recreation Attendants	150	170	20	13.7%	100	\$18,156	Less than high school	None	Short-term on-the-job training
39-4831	Funeral service managers, directors, morticians, and undertakers	60	70	10	13.8%	20	\$46,343	Associate's degree	None	Apprenticeship
39-9011	Child Care Workers	930	1,130	200	21.8%	490	\$18,262	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal and Home Care Aides	210	370	150	71.4%	170	\$17,941	Less than high school	None	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	150	180	30	19.2%	50	\$24,805	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	370	440	70	18.2%	130	\$19,559	Bachelor's degree	None	None
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	1,750	1,820	70	3.9%	480	\$30,773	High school diploma or equivalent	1 to 5 years	None
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	110	100	0	-3.7%	30	\$50,892	High school diploma or equivalent	More than 5 years	None
41-2011	Cashiers	3,890	3,990	100	2.5%	1,860	\$18,386	Less than high school	None	Short-term on-the-job training
41-2022	Parts Salespersons	420	450	40	8.4%	190	\$26,109	Less than high school	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	4,020	4,450	430	10.6%	1,610	\$19,963	Less than high school	None	Short-term on-the-job training
41-3021	Insurance Sales Agents	370	450	70	19.0%	160	\$38,458	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	110	130	10	12.4%	50	\$50,098	Bachelor's degree	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	70	90	10	16.4%	30	\$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	450	520	60	13.7%	170	\$57,298	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1,160	1,290	130	11.5%	410	\$45,677	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	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage		a Related Occupation	
41-9021	Real Estate Brokers	80	80	10	8.0%	20	\$36,296	High school diploma or equivalent	1 to 5 years	None
41-9022	Real Estate Sales Agents	240	270	30	13.7%	90	\$33,665	High school diploma or equivalent	None	Long-term on-the-job training
41-9799	Sales and Related Workers, All Other	40	50	10	12.2%	20	\$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	1,150	1,260	120	10.0%	420	\$42,925	High school diploma or equivalent	1 to 5 years	None
43-2011	Switchboard Operators, Including Answering Service	120	80	-30	-29.6%	20	\$22,732	High school diploma or equivalent	None	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	400	440	40	10.5%	110	\$28,734	High school diploma or equivalent	None	Short-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	3,410	3,850	440	12.9%	810	\$28,846	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	250	280	40	15.1%	90	\$33,849	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	90	90	10	5.7%	40	\$37,425	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	660	650	-10	-0.9%	270	\$21,727	High school diploma or equivalent	None	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	180	200	20	8.3%	70	\$27,671	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4051	Customer Service Representatives	970	1,010	50	4.8%	320	\$27,660	High school diploma or equivalent	None	Short-term on-the-job training
43-4071	File Clerks	40	40	-10	-11.4%	10	\$23,621	High school diploma or equivalent	None	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	160	180	20	10.6%	80	\$18,348	High school diploma or equivalent	None	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	140	160	20	12.3%	50	\$24,567	High school diploma or equivalent	None	Short-term on-the-job training
43-4121	Library Assistants, Clerical	160	170	20	10.3%	90	\$19,313	High school diploma or equivalent	None	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	240	220	-20	-9.2%	50	\$26,152	High school diploma or equivalent	None	Short-term on-the-job training
43-4141	New Accounts Clerks	100	100	0	-2.0%	30	\$28,368	High school diploma or equivalent	None	Short-term on-the-job training
43-4151	Order Clerks	40	40	0	-2.4%	10	\$25,209	High school diploma or equivalent	None	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	130	150	20	15.2%	60	\$33,024	High school diploma or equivalent	None	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	730	870	140	19.1%	360	\$22,352	High school diploma or equivalent	None	Short-term on-the-job training
43-5021	Couriers and Messengers	50	50	0	0.0%	10	\$22,375	High school diploma or equivalent	None	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	210	240	30	14.6%	70	\$26,268	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	140	150	0	2.1%	30	\$30,058	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	90	100	10	7.5%	40	\$28,101	High school diploma or equivalent	None	Short-term on-the-job training
43-5051	Postal Service Clerks	80	40	-40	-53.2%	20	\$53,835	High school diploma or equivalent	None	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	490	390	-100	-20.2%	160	\$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	110	50	-60	-53.3%	10	\$53,786	High school diploma or equivalent	None	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	110	120	10	8.8%	40	\$42,594	High school diploma or equivalent	None	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	370	360	-10	-2.4%	100	\$27,981	High school diploma or equivalent	None	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	1,310	1,260	-50	-3.7%	330	\$20,708	Less than high school	None	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	810	880	70	8.8%	180	\$37,386	High school diploma or equivalent	1 to 5 years	None

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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			
43-6012	Legal Secretaries	90	100	10	10.2%	20	\$30,940	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6013	Medical Secretaries	310	410	100	32.8%	140	\$27,538	High school diploma or equivalent	None	Moderate-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	2,500	2,550	50	1.8%	380	\$26,908	High school diploma or equivalent	None	Short-term on-the-job training
43-9021	Data Entry Keyers	110	100	-10	-5.7%	20	\$24,297	High school diploma or equivalent	None	Moderate-term on-the-job training
43-9031	Desktop Publishers	40	40	0	2.9%	10	\$33,971	Associate's degree	None	Short-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	40	40	0	-7.5%	10	\$24,184	High school diploma or equivalent	None	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	30	30	-10	-16.7%	10	\$28,369	High school diploma or equivalent	None	Short-term on-the-job training
43-9799	Office and Administrative Support Workers, All Other	30	30	0	3.6%	10	\$33,101	High school diploma or equivalent	None	Short-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,340	1,520	190	14.0%	590	\$20,120	Less than high school	None	Short-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	920	1,100	180	19.7%	390	\$53,560	High school diploma or equivalent	More than 5 years	None
47-2021	Brickmasons and Blockmasons	40	50	10	36.1%	20	\$33,972	High school diploma or equivalent	None	Apprenticeship
47-2031	Carpenters	850	990	140	16.0%	320	\$31,202	High school diploma or equivalent	None	Apprenticeship
47-2044	Tile and Marble Setters	40	50	10	21.1%	20	\$29,918	Less than high school	None	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	410	520	110	27.6%	180	\$29,012	Less than high school	None	Moderate-term on-the-job training
47-2061	Construction Laborers	1,310	1,480	170	13.1%	280	\$26,176	Less than high school	None	Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	220	230	10	5.5%	60	\$29,326	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	710	860	140	19.9%	310	\$34,826	High school diploma or equivalent	None	Moderate-term on-the-job training
47-2111	Electricians	440	520	80	17.4%	200	\$44,119	High school diploma or equivalent	None	Apprenticeship
47-2141	Painters, Construction and Maintenance	360	420	60	16.0%	140	\$32,532	Less than high school	None	Moderate-term on-the-job training
47-2151	Pipelayers	290	350	70	22.6%	150	\$29,990	High school diploma or equivalent	None	Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	410	500	90	20.9%	210	\$38,988	High school diploma or equivalent	None	Apprenticeship
47-2181	Roofers	100	110	10	14.7%	30	\$27,944	Less than high school	None	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	40	40	10	16.7%	10	\$49,225	High school diploma or equivalent	None	Apprenticeship
47-3012	Helpers--Carpenters	40	60	20	45.2%	30	\$23,476	Less than high school	None	Short-term on-the-job training
47-4011	Construction and Building Inspectors	70	80	10	11.4%	30	\$41,675	High school diploma or equivalent	More than 5 years	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	640	740	90	14.5%	260	\$29,626	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	120	150	30	28.8%	60	\$43,692	Less than high school	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	250	320	70	27.1%	120	\$48,372	Less than high school	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	420	540	120	28.6%	210	\$39,630	Less than high school	None	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	790	1,000	210	25.9%	370	\$34,052	Less than high school	None	Moderate-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	460	510	40	9.1%	160	\$55,589	High school diploma or equivalent	1 to 5 years	None
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	230	250	20	8.4%	60	\$42,029	Postsecondary non-degree award	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	On-the-job Training
		2010	2020	Numeric	Percent		Median Annual Wage		a Related Occupation	
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	60	70	0	3.2%	20	\$55,473	Postsecondary non-degree av	None	Long-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	30	30	0	15.4%	10	\$31,501	High school diploma or equiv	None	Moderate-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	330	360	40	10.7%	130	\$52,782	Postsecondary non-degree av	None	None
49-3021	Automotive Body and Related Repairers	190	220	30	18.1%	80	\$35,519	High school diploma or equiv	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	680	750	70	9.7%	240	\$34,053	High school diploma or equiv	None	Long-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	410	430	20	4.2%	110	\$35,247	High school diploma or equiv	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics	110	120	10	8.8%	40	\$30,750	High school diploma or equiv	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	160	200	40	24.7%	80	\$38,925	High school diploma or equiv	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	60	70	10	20.0%	30	\$29,458	High school diploma or equiv	None	Long-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	440	600	160	35.4%	230	\$37,439	Postsecondary non-degree av	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	50	50	0	-2.1%	10	\$32,739	High school diploma or equiv	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	350	430	90	25.1%	150	\$45,899	High school diploma or equiv	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	130	140	10	8.4%	40	\$34,687	High school diploma or equiv	None	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	240	250	10	4.5%	100	\$47,678	High school diploma or equiv	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	160	160	0	-0.6%	30	\$47,652	High school diploma or equiv	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	1,340	1,490	150	11.2%	400	\$30,587	High school diploma or equiv	None	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	50	60	10	14.6%	20	\$27,873	High school diploma or equiv	None	Short-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	470	530	60	12.6%	270	\$23,632	High school diploma or equiv	None	Moderate-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	530	560	30	5.8%	100	\$50,871	Postsecondary non-degree av	1 to 5 years	None
51-2092	Team Assemblers	730	770	30	4.5%	180	\$26,825	High school diploma or equiv	None	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	50	50	10	10.4%	20	\$22,197	High school diploma or equiv	None	Moderate-term on-the-job training
51-3011	Bakers	100	100	0	1.0%	30	\$20,489	Less than high school	None	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	190	190	10	2.7%	60	\$24,259	Less than high school	None	Long-term on-the-job training
51-3023	Slaughterers and Meat Packers	110	130	20	14.9%	50	\$22,710	Less than high school	None	Moderate-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	40	50	10	25.6%	20	\$34,972	High school diploma or equiv	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Pl	160	170	0	1.2%	10	\$27,340	High school diploma or equiv	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tend	30	30	0	6.9%	10	\$29,349	High school diploma or equiv	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	40	40	0	2.9%	10	\$34,902	High school diploma or equiv	None	Moderate-term on-the-job training
51-4041	Machinists	350	390	40	10.9%	100	\$36,526	High school diploma or equiv	None	Long-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal a	70	80	10	11.8%	20	\$27,655	High school diploma or equiv	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	30	30	0	11.1%	10	\$32,717	High school diploma or equiv	None	Moderate-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	1,160	1,400	240	20.7%	550	\$35,293	High school diploma or equiv	Less than 1 year	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			
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	40	40	0	7.3%	10	\$30,943	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5112	Printing Press Operators and Job Printers	110	110	0	-0.9%	20	\$28,742	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	240	240	0	-1.2%	50	\$18,401	Less than high school	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	120	100	-20	-16.5%	10	\$19,013	Less than high school	None	Short-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	40	50	10	24.4%	20	\$26,521	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	240	260	20	8.9%	80	\$29,566	High school diploma or equivalent	None	Long-term on-the-job training
51-8092	Gas Plant Operators	100	90	0	-4.2%	30	\$57,360	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	360	370	20	4.8%	130	\$53,712	High school diploma or equivalent	None	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	60	60	0	-1.6%	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	140	160	20	11.2%	60	\$29,089	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	60	70	10	9.7%	30	\$31,901	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	50	50	0	6.7%	20	\$40,395	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	430	520	90	21.8%	190	\$37,432	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	320	330	10	4.1%	70	\$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	90	100	10	13.0%	30	\$29,549	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	30	30	0	11.1%	10	\$32,657	High school diploma or equivalent	None	Long-term on-the-job training
51-9198	Helpers--Production Workers	300	320	20	6.0%	70	\$22,914	Less than high school	None	Short-term on-the-job training
51-9399	Production Workers, All Other	40	50	0	9.3%	20	\$22,488	High school diploma or equivalent	None	Moderate-term on-the-job training
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	170	200	30	16.0%	60	\$44,933	High school diploma or equivalent	1 to 5 years	None
53-2012	Commercial Pilots	330	390	60	16.8%	180	\$68,276	Postsecondary non-degree award	None	None
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	80	100	10	15.9%	30	\$22,947	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3022	Bus Drivers, School	350	330	-20	-5.4%	70	\$19,990	High school diploma or equivalent	None	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	470	490	20	4.3%	110	\$21,717	High school diploma or equivalent	None	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	3,070	3,260	190	6.2%	800	\$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	480	480	0	0.0%	100	\$25,973	High school diploma or equivalent	None	Short-term on-the-job training
53-6031	Service Station Attendants	40	40	0	7.9%	20	\$20,521	Less than high school	None	Short-term on-the-job training
53-6041	Traffic Technicians	30	30	0	0.0%	10	\$45,281	Less than high school	None	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	140	160	10	7.6%	50	\$25,543	Less than high school	None	Short-term on-the-job training
53-7021	Crane and Tower Operators	50	50	0	8.7%	20	\$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	350	400	50	15.1%	160	\$30,913	Less than high school	1 to 5 years	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	250	280	30	11.1%	100	\$29,051	Less than high school	Less than 1 year	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	260	300	40	15.5%	120	\$21,070	Less than high school	None	Short-term on-the-job training

NORTHWEST Workforce Investment Area Occupational Projections 2010-2020

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			
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,300	2,520	220	9.4%	950	\$22,868	Less than high school	None	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	110	100	-10	-6.6%	20	\$25,114	Less than high school	None	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	190	180	-10	-3.7%	50	\$18,970	Less than high school	None	Short-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	220	240	20	6.7%	80	\$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).