

Oklahoma Department of Career and Technology Education

*career*tech

Information Commons

September 2016

Oklahoma

Construction and Extraction Occupations



Parameters

Occupations

Code	Description
47-0000	Construction and Extraction Occupations

Regions

Code	Description
40	Oklahoma

Timeframe

2006 - 2016

Datarun

2016.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

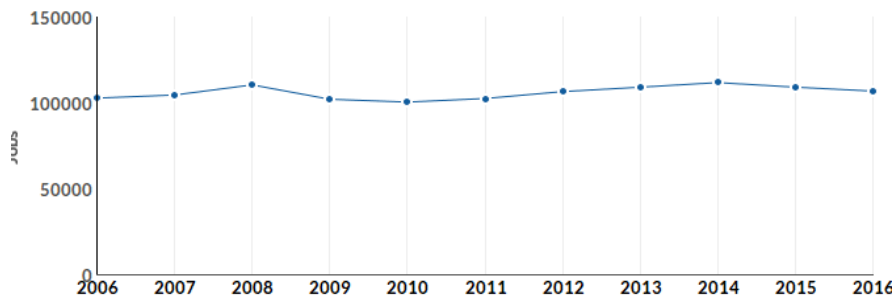
Construction and Extraction Occupations in Oklahoma

Occupation Summary for Construction and Extraction Occupations

106,999 Jobs (2016) 32% above National average	4.0% % Change (2006-2016) Nation: -12.2%	\$18.17/hr Median Hourly Earnings Nation: \$20.52/hr
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Growth

102,923 2006 Jobs	106,999 2016 Jobs	4,076 Change (2006-2016)	4.0% % Change (2006-2016)
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Occupation	2006 Jobs	2016 Jobs	Change	% Change
First-Line Supervisors of Construction Trades and Extraction Workers (47-1011)	10,528	10,046	-482	-5%
Boilermakers (47-2011)	297	381	84	28%
Brickmasons and Blockmasons (47-2021)	1,187	903	-284	-24%
Stonemasons (47-2022)	161	107	-54	-34%
Carpenters (47-2031)	12,486	10,663	-1,823	-15%
Carpet Installers (47-2041)	539	405	-134	-25%
Floor Layers, Except Carpet, Wood, and Hard Tiles (47-2042)	242	193	-49	-20%
Floor Sanders and Finishers (47-2043)	99	68	-31	-31%
Tile and Marble Setters (47-2044)	950	707	-243	-26%
Cement Masons and	2,347	2,961	614	26%

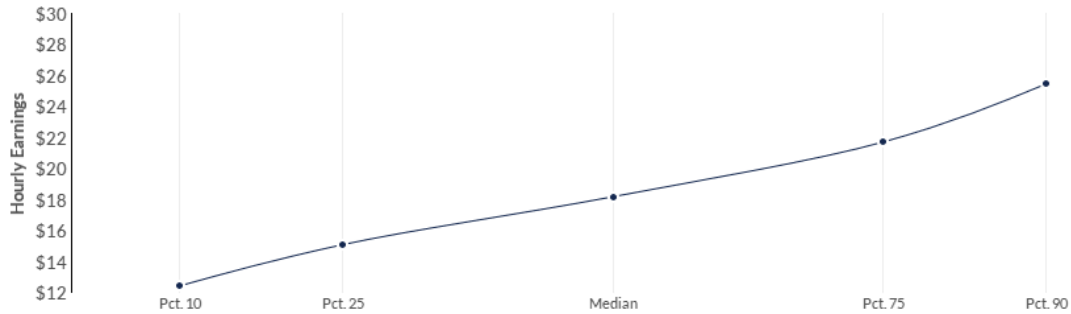
Occupation	2006 Jobs	2016 Jobs	Change	% Change
Concrete Finishers (47-2051)				
Terrazzo Workers and Finishers (47-2053)	19	16	-3	-16%
Construction Laborers (47-2061)	15,748	18,926	3,178	20%
Paving, Surfacing, and Tamping Equipment Operators (47-2071)	1,059	1,275	216	20%
Pile-Driver Operators (47-2072)	90	109	19	21%
Operating Engineers and Other Construction Equipment Operators (47-2073)	5,504	6,418	914	17%
Drywall and Ceiling Tile Installers (47-2081)	1,495	1,231	-264	-18%
Tapers (47-2082)	225	179	-46	-20%
Electricians (47-2111)	7,410	7,873	463	6%
Glaziers (47-2121)	475	482	7	1%
Insulation Workers, Floor, Ceiling, and Wall (47-2131)	476	508	32	7%
Insulation Workers, Mechanical (47-2132)	406	424	18	4%
Painters, Construction and Maintenance (47-2141)	6,039	5,077	-962	-16%
Paperhangers (47-2142)	42	33	-9	-21%
Pipelayers (47-2151)	502	635	133	26%
Plumbers, Pipefitters, and Steamfitters (47-2152)	5,590	6,923	1,333	24%
Plasterers and Stucco Masons (47-2161)	204	162	-42	-21%
Reinforcing Iron and Rebar Workers (47-2171)	268	254	-14	-5%
Roofers (47-2181)	1,741	1,898	157	9%
Sheet Metal Workers (47-2211)	3,221	3,567	346	11%
Structural Iron and Steel Workers (47-2221)	706	787	81	11%

Occupation	2006 Jobs	2016 Jobs	Change	% Change
Solar Photovoltaic Installers (47-2231)	48	51	3	6%
Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters (47-3011)	424	354	-70	-17%
Helpers--Carpenters (47-3012)	818	822	4	0%
Helpers--Electricians (47-3013)	1,556	1,761	205	13%
Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons (47-3014)	65	39	-26	-40%
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)	1,181	1,642	461	39%
Helpers--Roofers (47-3016)	175	186	11	6%
Helpers, Construction Trades, All Other (47-3019)	255	281	26	10%
Construction and Building Inspectors (47-4011)	973	1,044	71	7%
Elevator Installers and Repairers (47-4021)	87	67	-20	-23%
Fence Erectors (47-4031)	261	247	-14	-5%
Hazardous Materials Removal Workers (47-4041)	367	410	43	12%
Highway Maintenance Workers (47-4051)	2,187	2,634	447	20%
Rail-Track Laying and Maintenance Equipment Operators (47-4061)	121	129	8	7%
Septic Tank Servicers and Sewer Pipe Cleaners (47-4071)	487	653	166	34%
Segmental Pavers (47-4091)	14	15	1	7%
Construction and Related Workers, All Other (47-4099)	224	203	-21	-9%
Derrick Operators, Oil and Gas (47-5011)	1,296	1,243	-53	-4%

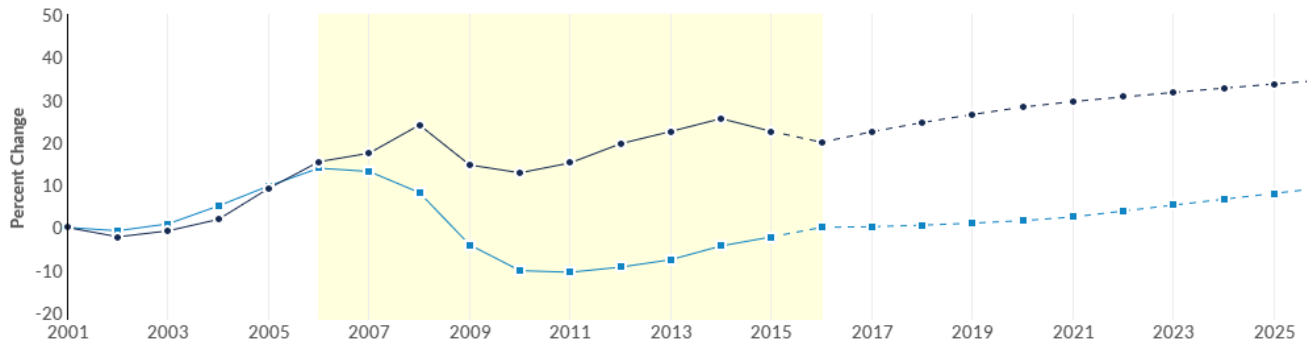
Occupation	2006 Jobs	2016 Jobs	Change	% Change
Rotary Drill Operators, Oil and Gas (47-5012)	2,125	2,075	-50	-2%
Service Unit Operators, Oil, Gas, and Mining (47-5013)	3,348	3,186	-162	-5%
Earth Drillers, Except Oil and Gas (47-5021)	482	510	28	6%
Explosives Workers, Ordnance Handling Experts, and Blasters (47-5031)	340	352	12	4%
Continuous Mining Machine Operators (47-5041)	126	106	-20	-16%
Mine Cutting and Channeling Machine Operators (47-5042)	75	58	-17	-23%
Mining Machine Operators, All Other (47-5049)	16	14	-2	-13%
Rock Splitters, Quarry (47-5051)	253	250	-3	-1%
Roof Bolters, Mining (47-5061)	17	12	-5	-29%
Roustabouts, Oil and Gas (47-5071)	4,543	4,419	-124	-3%
Helpers--Extraction Workers (47-5081)	884	901	17	2%
Extraction Workers, All Other (47-5099)	120	121	1	1%

Percentile Earnings for Construction and Extraction Occupations (47-0000)

\$15.07/hr 25th Percentile Earnings	\$18.17/hr Median Earnings	\$21.70/hr 75th Percentile Earnings
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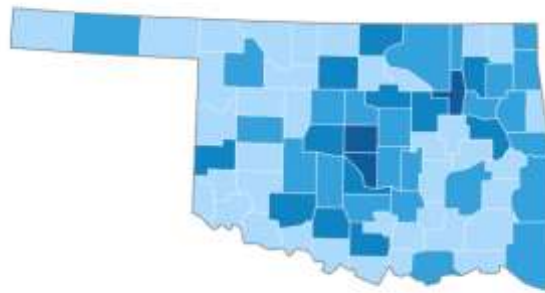


Regional Trends



Region	2006 Jobs	2016 Jobs	Change	% Change
● Region	102,923	106,999	4,076	4.0%
● Nation	8,110,671	7,121,512	-989,159	-12.2%

Regional Breakdown



County	2016 Jobs
Oklahoma County, OK	26,376
Tulsa County, OK	17,936
Cleveland County, OK	5,203
Rogers County, OK	3,068
Canadian County, OK	3,033

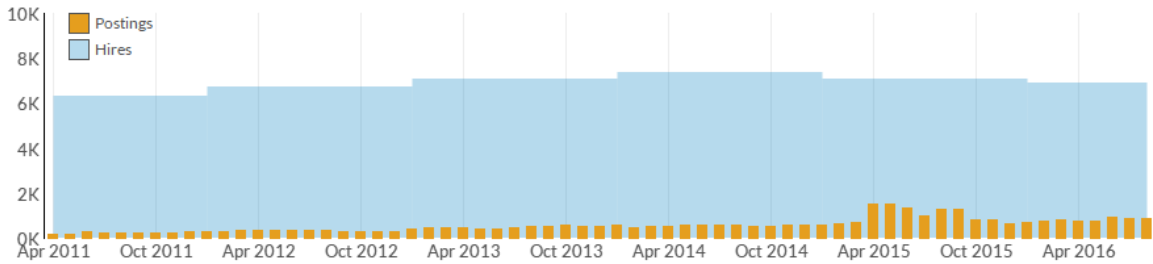
Job Postings Summary

<p>36,924</p> <p>Unique Postings (Apr 2011 - Aug 2016)</p> <p>190,512 Total Postings</p>	<p>5 : 1</p> <p>Posting Intensity (Apr 2011 - Aug 2016)</p> <p>Regional Average: 6 : 1</p>
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There were **190,512** total job postings for Construction and Extraction Occupations from April 2011 to August 2016, of which **36,924** were unique. These numbers give us a Posting Intensity of **5-to-1**, meaning that for every 5 postings there is 1 unique job posting. This is lower than the Posting Intensity for all other occupations and companies in the region (6-to-1), indicating that companies may not be trying as hard to hire this position.

Job Postings vs. Hires

568 Avg. Monthly Postings (Apr 2011 - Aug 2016)	6,947 Avg. Monthly Hires (Apr 2011 - Aug 2016)
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Occupation	Avg Monthly Postings (Apr 2011 - Aug 2016)	Avg Monthly Hires (Apr 2011 - Aug 2016)
Construction and Extraction Occupations	568	6,947








Occupation Gender Breakdown



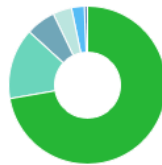
Gender	2016 Jobs	2016 Percent
• Males	103,304	96.5%
• Females	3,694	3.5%





Occupation Age Breakdown




	Age	2016 Jobs	2016 Percent
●	14-18	724	0.7% 
●	19-24	9,968	9.3% 
●	25-34	29,598	27.7% 
●	35-44	25,014	23.4% 
●	45-54	22,997	21.5% 
●	55-64	14,523	13.6% 
●	65+	4,175	3.9% 

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2016 Jobs	2016 Percent
●	White	77,318	72.3% 
●	Hispanic or Latino	15,513	14.5% 
●	American Indian or Alaska Native	6,508	6.1% 
●	Black or African American	4,134	3.9% 

	Race/Ethnicity	2016 Jobs	2016 Percent
•	Two or More Races	2,819	2.6% 
•	Asian	622	0.6% 
•	Native Hawaiian or Other Pacific Islander	83	0.1% 

Occupational Programs

17 Programs (2015)		854 Completions (2015)	3,543 Openings (2015)
CIP Code	Program	Completions (2015)	
46.0201	Carpentry/Carpenter	308	
46.0302	Electrician	232	
46.0502	Pipefitting/Pipefitter and Sprinkler Fitter	139	
46.0401	Building/Property Maintenance	66	
49.0202	Construction/Heavy Equipment/Earthmoving Equipment Operation	32	

Industries Employing Construction and Extraction Occupations

Industry	Occupation Jobs in Industry (2016)	% of Occupation in Industry (2016)	% of Total Jobs in Industry (2016)
Support Activities for Oil and Gas Operations	9,032	8.4%	48.8%
Electrical Contractors and Other Wiring Installation Contractors	8,462	7.9%	67.1%
Plumbing, Heating, and Air-Conditioning Contractors	8,040	7.5%	56.5%
Local Government, Excluding Education and Hospitals	6,358	5.9%	6.5%
Commercial and Institutional Building Construction	6,192	5.8%	60.7%

Appendix A - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level Emsi earnings by industry.

CareerBuilder/Emsi Job Postings

Job postings are collected from various sources and processed/enriched by Careerbuilder to provide information such as standardized company name, occupation, skills, and geography. Emsi performs additional filtering and processing to improve compatibility with Emsi data.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

State Data Sources

This report uses state data from the following agencies: Arkansas Department of Workforce Services; Kansas Department of Labor, Labor Market Information Services, Kansas Wage Survey; Missouri Department of Economic Development; Oklahoma Employment Security Commission; Texas Workforce Commission