

Automotive Technology Occupation Report



CIP 47.0604

Cochise, Pima, SC

Automobile/Automotive Mechanics Technology/Technician

CIP 2010: A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems. * *Program Description – Settings*

Occupation Gender Breakdown

	Gender	2016 Jobs	2016 Percent
●	Males	2,579	98.4% 
●	Females	43	1.6% 

Occupation Age Breakdown

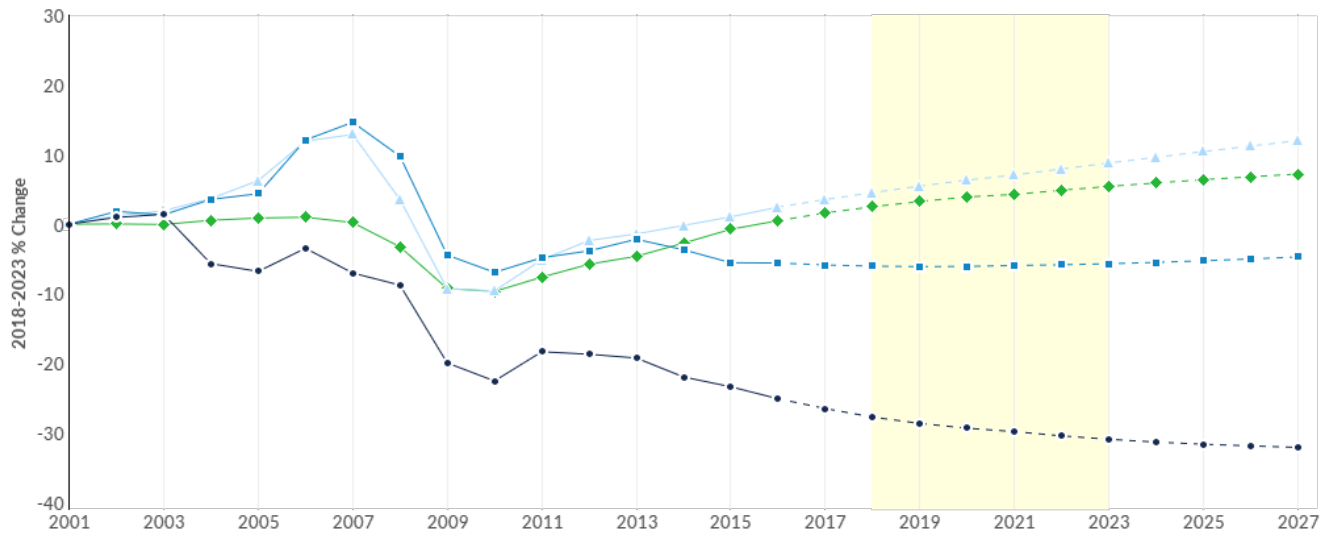
	Age	2016 Jobs	2016 Percent
●	14-18	20	0.8% 
●	19-24	257	9.8% 
●	25-34	686	26.2% 
●	35-44	677	25.8% 
●	45-54	580	22.1% 
●	55-64	325	12.4% 
●	65+	75	2.9% 

Occupation Summary for 47.0604

2,621 Jobs (2016) 10% above National average	0.3% % Change (2018-2023) Nation: 2.8%	\$14.32/hr Median Hourly Earnings Nation: \$16.72/hr
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October 10, 2017

Occupation Change Summary



	Region	2018 Jobs	2023 Jobs	Change	% Change	Median Hourly Earnings
●	Cochise County, AZ	246	235	-11	-4%	\$11.80
●	Cochise, Pima, SC	2,609	2,618	9	0%	\$14.32
●	Arizona (AZ)	17,056	17,749	693	4%	\$16.33
●	United States	816,757	840,017	23,260	3%	\$16.72

SOC	Description	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	Postsecondary non-degree award	None	Long-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	Postsecondary non-degree award	None	Short-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training

Occupation Breakdown - 2018 Jobs

Occupation	Description	Cochise, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
49-3023	Automotive Service Technicians and Mechanics	243	2,540	16,551	789,888
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	<10	32	156	15,989
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	<10	37	349	10,880
	Total	246	2,609	17,056	816,757

Occupation Breakdown - 2023 Jobs

Occupation	Description	Cochise, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
49-3023	Automotive Service Technicians and Mechanics	232	2,554	17,291	814,263
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	<10	33	169	16,699
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	<10	31	289	9,055
	Total	235	2,618	17,749	840,017

Occupation Breakdown - Change

Occupation	Description	Cochise, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	--	1	13	710
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	--	-6	-60	-1,825
49-3023	Automotive Service Technicians and Mechanics	-11	14	740	24,375
	Total	-11	9	693	23,260

Occupation Breakdown - Median Hourly Earnings

Occupation Description	Cochise, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
49-2093 Electrical and Electronics Installers and Repairers, Transportation Equipment	--	\$23.06	\$23.01	\$28.50
49-2096 Electronic Equipment Installers and Repairers, Motor Vehicles	--	\$17.74	\$17.18	\$15.49
49-3023 Automotive Service Technicians and Mechanics	\$14.64	\$14.16	\$18.40	\$18.50
Total	\$14.75	\$14.32	\$18.41	\$18.65








Top Industries – Change from 2018 - 2023

NAICS Code	Description	Cochise, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
441110	New Car Dealers	1	45	262	7,526
441320	Tire Dealers	--	4	25	485
441310	Automotive Parts and Accessories Stores	-1	-2	43	1,549
811121	Automotive Body, Paint, and Interior Repair and Maintenance	--	-4	24	-397
811111	General Automotive Repair	-6	-16	149	10,989
	Total	-7	26	505	20,152

Source: QCEW Employees, Non-QCEW Employees & Self-Employed - EMSI 2017.3 Class of Worker

National Educational Attainment

Automotive Service Technicians and Mechanics (49-3023)








Education Level	2016 Percent
Less than high school diploma	18.6% 
High school diploma or equivalent	44.1% 
Some college, no degree	22.4% 
Associate's degree	11.0% 
Bachelor's degree	3.4% 
Master's degree	0.4% 
Doctoral or professional degree	0.1% 

* National Educational Attainment - Settings

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National Educational Attainment








Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)

	Education Level	2016 Percent
●	Less than high school diploma	1.6% 
●	High school diploma or equivalent	32.0% 
●	Some college, no degree	35.1% 
●	Associate's degree	21.7% 
●	Bachelor's degree	9.0% 
●	Master's degree	0.6% 
●	Doctoral or professional degree	0.0% 

* National Educational Attainment - Settings

National Educational Attainment

Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)

	Education Level	2016 Percent
●	Less than high school diploma	17.7% 
●	High school diploma or equivalent	38.1% 
●	Some college, no degree	28.3% 
●	Associate's degree	10.2% 
●	Bachelor's degree	5.4% 
●	Master's degree	0.4% 
●	Doctoral or professional degree	0.0% 

* National Educational Attainment - Settings

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.

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.

Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics