

# Hazardous Materials Technician Occupation Report

## CIP 15.0508

Cochise, Pima, SC

### Hazardous Materials Management and Waste Technology/Technician

CIP 2010: A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in identifying and disposing of hazardous materials. Includes instruction in environmental safety principles, biohazard identification, testing and sampling procedures, laboratory techniques, instrumentation calibration, hazardous waste disposal procedures and systems, safety and protection procedures, equipment maintenance, and report preparation.

### Occupation Gender Breakdown 2016

Gender	Jobs	Percent
Males	29	89.1%
Females	3	10.9%

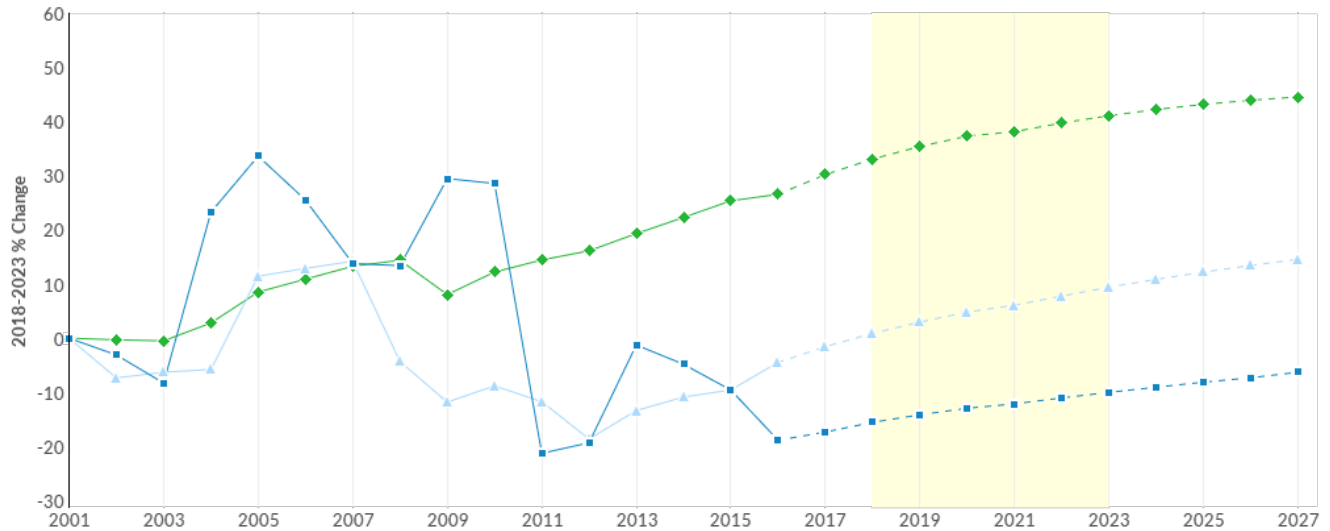
### Occupation Age Breakdown 2016

Age	Jobs	Percent
14-18	0	0.4%
19-24	2	5.6%
25-34	7	20.7%
35-44	8	24.9%
45-54	9	26.6%
55-64	6	18.8%
65+	1	3.1%

### Occupation Summary for 15.0508

<b>32</b> Jobs (2016) 76% below National average	<b>9.1%</b> % Change (2018-2023) Nation: 6.0%	<b>\$15.88/hr</b> Median Hourly Earnings Nation: \$19.54/hr
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# Occupation Change Summary



Region	2018 Jobs	2023 Jobs	Change	% Change	Median Hourly Earnings
● Cochise County, AZ	<10	<10	--	--	\$18.65
● Cochise, Pima, SC	33	36	3	9%	\$15.88
● Arizona (AZ)	406	441	35	9%	\$16.66
● United States	46,171	48,949	2,778	6%	\$19.54

SOC	Description	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
47-4041	Hazardous Materials Removal Workers	High school diploma or equivalent	None	Moderate-term on-the-job training

## Occupation Breakdown - 2018 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
47-4041	Hazardous Materials Removal Workers	<10	33	406	46,171
	Total	<10	33	406	46,171

## Occupation Breakdown - 2023 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
47-4041	Hazardous Materials Removal Workers	<10	36	441	48,949
	Total	<10	36	441	48,949

## Occupation Breakdown - Change

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
47-4041	Hazardous Materials Removal Workers	--	3	35	2,778
	Total	0	3	35	2,778

## Occupation Breakdown - Median Hourly Earnings








Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
47-4041	Hazardous Materials Removal Workers	--	\$15.88	\$16.66	\$19.54
	Total	\$0.00	\$15.88	\$16.66	\$19.54

## Top Industries – Change from 2018 - 2023

NAICS Code	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
236118	Residential Remodelers	0	--	--	55
562111	Solid Waste Collection	--	--	5	117
562991	Septic Tank and Related Services	--	--	4	524
901199	Federal Government, Civilian, Excluding Postal Service	--	--	--	-15
903999	Local Government, Excluding Education and Hospitals	0	--	1	55
	Total	0	2	13	736

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

**National Educational Attainment**  
 Hazardous Materials Removal Workers (47-4041)

	<b>Education Level</b>	<b>2016 Percent</b>
●	Less than high school diploma	21.0% 
●	High school diploma or equivalent	37.5% 
●	Some college, no degree	22.3% 
●	Associate's degree	5.2% 
●	Bachelor's degree	11.0% 
●	Master's degree	2.6% 
●	Doctoral or professional degree	0.4% 

\* *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