

# Western Technical College

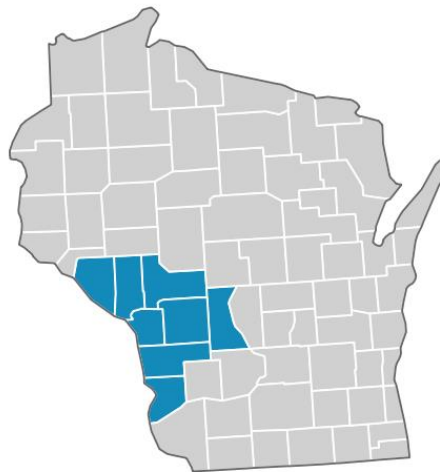


400 Seventh Street  
La Crosse, Wisconsin 54601  
608.785.9200

## Refrigeration, Air Conditioning, and Heating Service Technician Program Occupation Report

**June 2014**

Western Technical College District



## Report Info

Dataset Version	2014.2 Class of Worker
Class of Worker Categories	QCEW Employees + Non-QCEW Employees + Self-Employed
Timeframe	2015 - 2019
Region Name	Western Technical College District
Region Description	Western district counties
Counties	

Buffalo, WI (55011)	Crawford, WI (55023)	Jackson, WI (55053)
Juneau, WI (55057)	La Crosse, WI (55063)	Monroe, WI (55081)
Trempealeau, WI (55121)	Vernon, WI (55123)	

## Heating, Air Conditioning, and Refrigeration Mechanics and Installers

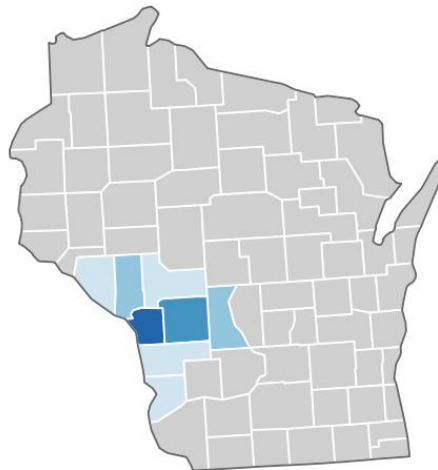
SOC 49-9021: Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

### Related O\*NET Occupations:

Heating and Air Conditioning Mechanics and Installers (49-9021.01)

Refrigeration Mechanics and Installers (49-9021.02)

## Job Distribution



## Overview

Annual Openings Estimate (2014)	12
Related Completions (2012)	30
<a href="#">Current Job Postings</a>	19

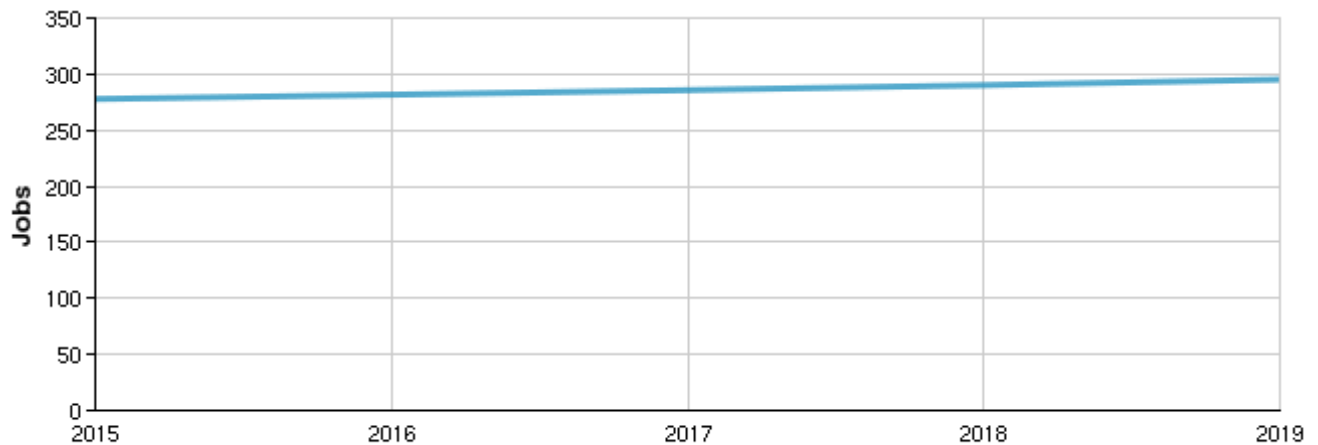
Gender		
Male	98%	<div style="width: 98%;"></div>
Female	2%	<div style="width: 2%;"></div>

Age		
14-18	0%	<div style="width: 0%;"></div>
19-24	6%	<div style="width: 6%;"></div>
25-44	52%	<div style="width: 52%;"></div>
45-64	38%	<div style="width: 38%;"></div>
65+	4%	<div style="width: 4%;"></div>

<b>274</b> Jobs (2014) National Location Quotient: 0.88	<b>6.3%</b> % Change (2015-2019) Nation: 6.2%	<b>\$19.67/hr</b> Median Earnings Nation: \$20.11/hr
---	---	--

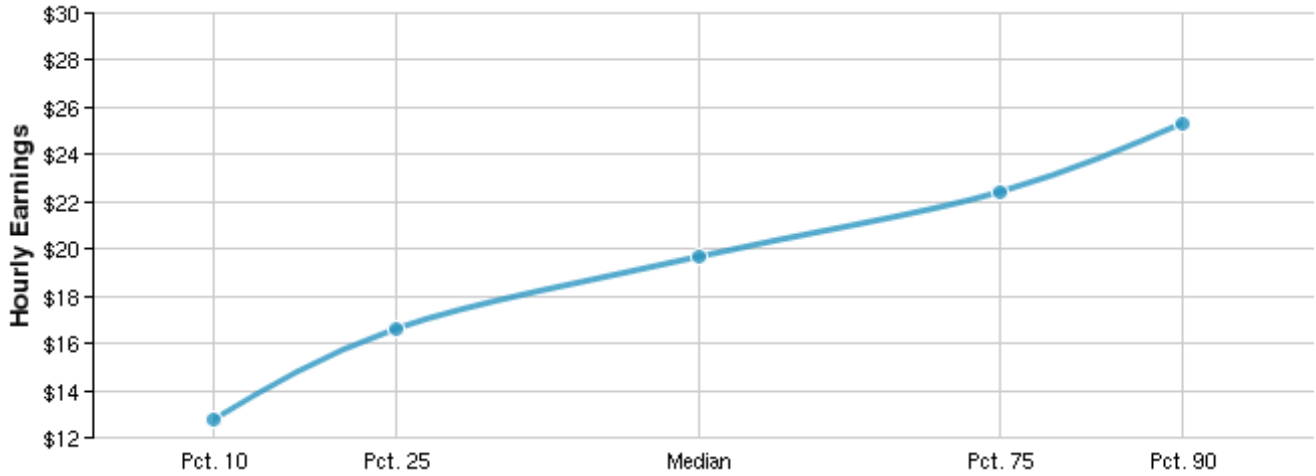
## Western Technical College District | Growth for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

<b>278</b> 2015 Jobs	<b>295</b> 2019 Jobs	<b>17</b> Change (2015-2019)	<b>6.3%</b> % Change (2015-2019)
-------------------------	-------------------------	---------------------------------	-------------------------------------



**Western Technical College District | Percentile Earnings for Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)**

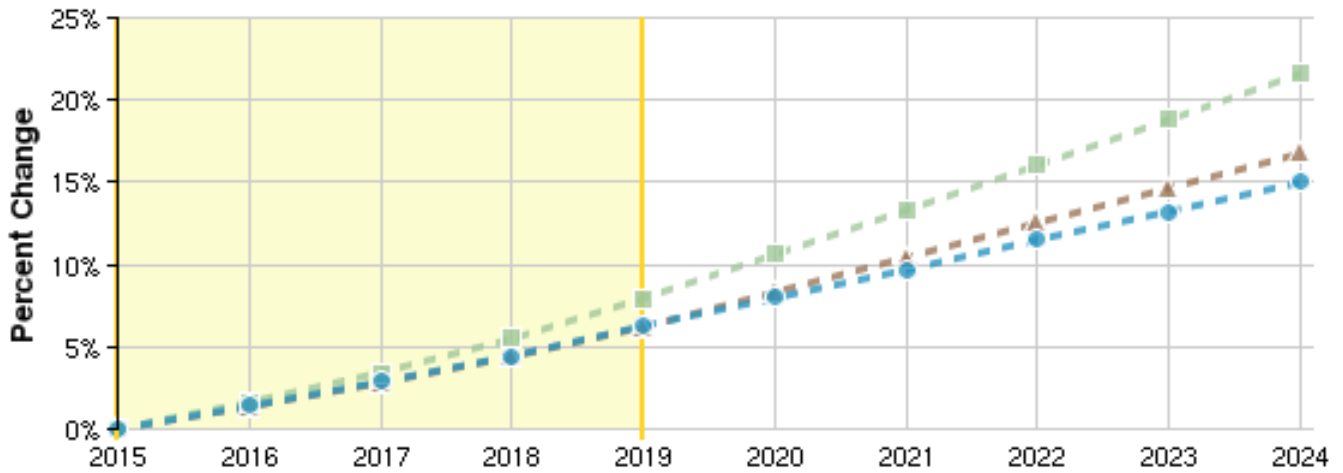
<b>\$12.79/hr</b> 10th Percentile Earnings	<b>\$19.67/hr</b> Median Earnings	<b>\$25.33/hr</b> 90th Percentile Earnings
---	--------------------------------------	---



**Educational Attainment (National)**

Doctoral or professional degree	0%	
Master's degree	1%	
Bachelor's degree	4%	■
Associate's degree	13%	■
Some college, no degree	30%	■
High school diploma or equivalent	43%	■
Less than high school diploma	11%	■

## Regional Trends



Region	2015 Jobs	2019 Jobs	% Change
Western Technical College District	278	295	6.3%
State	5,151	5,560	7.9%
Nation	305,876	324,845	6.2%

## Educational programs

<b>2</b> Programs (2012)	<b>30</b> Completions (2012)
-----------------------------	---------------------------------

Program	2008	2009	2010	2011	2012
Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician (15.0501)	7	7	4	4	17
Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician (47.0201)	11	17	26	15	13

## Inverse Staffing Patterns

Industry	Occupation Jobs in Industry (2014)	% of Occupation in Industry (2014)	% of Total Jobs in Industry (2014)
Plumbing, Heating, and Air-Conditioning Contractors (238220)	150	54.7%	18.0%
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing (333415)	12	4.3%	0.6%
Residential Remodelers (236118)	<10	2.7%	1.3%
Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance (811310)	<10	2.5%	3.4%
Local Government, Excluding Education and Hospitals (903999)	<10	2.4%	0.1%

## Data Sources and Calculations

---

### State Data Sources

This report uses state data from the following agencies: Wisconsin Department of Workforce Development, Bureau of Workforce Information

### 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.

### 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.

### 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.

### 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.

### 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.