

# HVAC/Plumbing



Because water and climate control systems are in every building



Learn and practice the fundamentals of fitting, assembling and preparing piping. Install residential/commercial heating, air conditioning, refrigeration and ventilation systems.



## Units of Study

- Blueprint Reading and Plumbing Drawings
- Drain Waste and Vent Systems
- Water Distribution Systems
- Fixtures, Valves and Faucets
- Water Heaters
- Boilers
- Radiant Heat and Baseboards
- Hydronic Installation and piping
- Carbon Pipe and Fittings
- Plastic Pipe and Fittings
- Copper Pipe and Fittings
- Gas Heat
- Copper and Plastic Piping Practices
- Soldering and Brazing
- Basic Electricity
- Fundamentals of Refrigeration
- Refrigeration Processes and Piping
- Ferrous Metal Piping Practices
- Fundamentals of Heating
- Forced-Air Gas Furnaces
- Electric Heat
- Air Distribution Systems
- Air Conditioning
- Heat Pumps

## Available Academic Credits

- English
- Science

## Work-Based Learning

CTE programs bring students into the workplace for real life experiences. Businesses that supports our HVAC/ Plumbing program:

- Colonial Fire Protection Systems, Inc.
- Culligan Water Treatment
- ES Systems
- Hi-Qual Heating and Cooling
- Isaac Heating & Air
- John W. Danforth Co.
- MCC Applied Technology Center
- Red Rochester
- Start Rooter
- Wolf Mechanical

## Licensing / Industry- Based Certifications

- OSHA 10 Construction Industry
- EPA Refrigerant Handler Certification

## College Credits

MCC Dual Enrollment:

- HVA 101: Basic Refrigeration Theory
- HVA 103: Heating Systems & Troubleshooting
- HVA 105: Electrical Foundations & Troubleshooting

## Articulation Agreements

- Alfred State
- Monroe Community College
- University of Northwestern Ohio

## Career Paths

All CTE programs correlate to many career paths.

### ↓ Start Here

- Plumber
- HVAC Technician

### Go Here ↓

*with more education & experience*

- Foreman
- Energy Systems Control Technician
- Mechanical Engineer

## Explore more:

<https://www.careerzone.ny.gov/>

<https://www.onetonline.org/find/>



WEMOCO Career & Technical Education Center  
Monroe 2-Orleans Board of Cooperative Educational Services  
Monroe2BOCES.org/cte 585-352-2471  
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