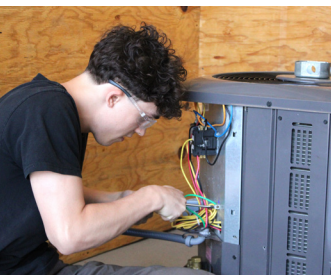
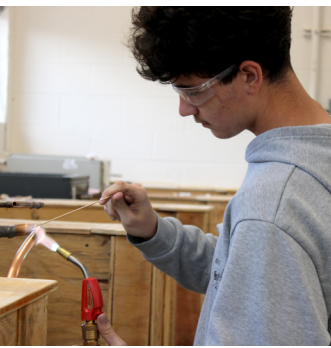


HVAC

Heat up career opportunities as you control the climate

Develop the technical knowledge and hands-on skills needed for careers in HVAC and residential plumbing. In this two-year program, students will gain experience in installing, maintaining, troubleshooting, and repairing residential and commercial systems while building expertise in electrical applications, welding, air distribution, blueprint reading, and industry safety practices. Through project-based learning, students prepare for postsecondary education, apprenticeships and careers in skilled trades.



What You Can **LEARN**

Units of Study

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



What You Can **EARN**

Available High School Academic Credits

At district request, students may earn:

- English
- Science

Licensing/Industry-Based Certifications

Students have opportunities to earn:

- OSHA 10 Construction Industry
- EPA Refrigerant Handler Certification

Work-Based Learning

- School-Based Learning
- Educational Tours
- Guest Speakers
- Career Fair
- Job Shadow
- Co-op



Where You Can **GO**

Career Opportunities

Minimal Requirement Beyond CTE

- Plumber
- HVAC Technician

Additional Education and/or Experience

- Foreman
- Energy Systems Control Tech
- Mechanical Engineer

Postsecondary Pathways

Dual Enrollment

- Monroe Community College
 - Basic Refrigeration Theory (HVA101)
 - Heating Systems and Troubleshooting (HVA103)
 - Electrical Foundations and Troubleshooting (HVA105)

Articulation Agreements

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

Now You Can
KNOW

According to the Bureau of Labor Statistics, employment of heating, air conditioning and refrigeration mechanics and installers is projected to grow 13% from 2018 to 2028.



Monroe 2-Orleans BOCES Career and Technical Education

WEMOCO Career and Technical Education Center

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