PROGRAM SUMMARY
• You will gain an understanding of the fundamentals of residential and light commercial plumbing, heating and air conditioning installation, service and repair.
• You’ll interpret blue prints, drawings and schematics to be able to assemble, prepare and install piping and HVAC equipment for a variety of residential and light commercial applications.
• Be part of the team that constructs a modular home in conjunction with the Building Trades and Electrical classes.
• Get training on the latest green and solar technologies.
• Careers in the heating and air conditioning installation industry are growing rapidly each year.

COLLEGE CREDIT CONNECTIONS
• Alfred State College
• SUNY Canton
• University of Northwestern Ohio

SPECIAL NOTES
• Students are responsible for purchasing leather gloves, work shoes, a tool belt, basic hand tools and a 25 foot tape measure.

PROGRAM ELIGIBILITY
• Technical Endorsement
• 3.75 Credits per Year
• Pathways to Graduation (CTE and CDOS)

Career Paths

PROFESSIONAL CAREERS
Plumbing / HVAC Educator
Mechanical Engineer
Operations Manager
Building Inspector
Contractor
Building Superintendent

TECHNICAL CAREERS
Master Plumber
Union Steamfitter
HVAC Technician
Industrial Plumbing Technician
Estimator
Pipe Fitter

ENTRY LEVEL CAREERS
Building Maintenance Technician
Appliance Repair Technician
HVAC Installer
Plumbing Apprentice
Counter Sales Technician
Service Technician
Handyman
**DRAINAGE, WASTE AND VENTS**
- Learn to properly size, layout, and install DWV for both residential and commercial applications.

**POTABLE WATER SYSTEMS**
- Learn to properly size, layout, and install potable water systems.

**FORCED AIR HEATING SYSTEMS**
- Learn to properly size, install, troubleshoot, and repair all types of residential forced air furnaces.

**STEAM AND HYDRONIC HEATING SYSTEMS**
- Learn to properly size, install, troubleshoot, and repair all types of residential boiler systems.

**CENTRAL AIR CONDITIONING SYSTEMS**
- Learn to properly size, install, troubleshoot, and repair all types of residential central air systems.

**SOLDERING AND BRAZING**
- A “must have” skill for all plumbers and HVAC techs! Students will learn a variety of methods for joining pipes and fittings.

**FIXTURE AND FAUCET SERVICE AND INSTALLATION**
- Students will gain “real world” experience working on and installing a variety of plumbing fixtures.

**BLUE PRINT READING AND PLUMBING DRAWINGS**
- Students will learn how to quickly and accurately read and interpret blueprints and isometric drawings.

**TRADE RELATED CERTIFICATIONS**
- EPA608 (required to work with refrigerants)
- R410a (required to work with the new high pressure refrigerant)
- OSHA10