



# Plumbing, Heating & Air Conditioning

2 YEAR PROGRAM

POTTER

## 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 blueprints, 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

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

### TECHNICAL CAREERS

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

### ENTRY LEVEL CAREERS

Appliance Repair Technician  
 Building Maintenance Technician  
 Counter Sales Technician  
 Handyman  
 HVAC Installer  
 Plumbing Apprentice  
 Service Technician

### 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)
- OSHA10

