HEATING & AIR CONDITIONING TECHNOLOGY

2024-2025

PENTA CAREER CENTER

Heating & Air Conditioning Technology is developed for students interested in careers in the heating, ventilation, air conditioning, refrigeration, and piping industry. There is an increasing demand for trained technicians in this industry. The program will help students develop skills to renovate, convert, and service HVAC/R and piping equipment.

Program Highlights:
- Design, fabricate, and install heating, ventilation, air conditioning, and refrigeration systems
- Plan, manage and complete residential and commercial projects in the community
- Utilize professional tools and equipment to diagnose and repair advanced systems

The Program Focuses on the Following State Approved Courses:
- Construction Technology – Core and Sustainable Construction
- Sheet Metal
- Heating and Cooling Systems
- HVAC Refrigeration
- Mechanical, Electrical and Plumbing Systems

COST-FREE COLLEGE CREDIT OPPORTUNITIES

College Credit Plus through Owens Community College
- SKT 165: Gas Heating Principles (2 Credit Hours)
- SKT 170: Maintenance Electricity (3 Credit Hours)
- SKT 158: Refrigeration – A/C Principles (3 Credit Hours)
- SKT 176: Electricity – HVACR Principles (2 Credit Hours)
- SKT 206: HVACR: Service Application (2 Credit Hours)

Career Technical Assurance Guides (CTAGs)
- CTS001: OSHA 10-Hour Safety (1 Credit Hour)

Articulated Credits through the University of Northwestern Ohio – 6 Credit Hours

INDUSTRY-RECOGNIZED CREDENTIALS (POINT VALUES)

- Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion (12 Points)
- EPA Refrigerant Recovery Core + Level 1 – Small Appliances (12 Points)
- EPA Refrigerant Recovery Core + Level 2 – High Pressure (12 Points)
- EPA Refrigerant Recovery Core + Level 3 – Low Pressure (12 Points)
- EPA Refrigerant Recovery Universal (12 Points)
- OSHA 10-Hour Training (1 Point)
- Ohio Driver's License (1 Point)
- 3M Head, Face and Eye (1 Point)
- 3M Hearing and Noice Protection (1 Point)
- 3M Respiratory Protection (1 Point)

OHIO MEANS JOBS OCCUPATIONS LISTED ACCORDING TO TYPICAL SALARY

OCCUPATION TITLE	TYPICAL SALARY- BOTTOM 10%	TYPICAL SALARY- MEDIAN	TYPICAL SALARY- TOP 10%	TYPICAL EDUCATION	ANNUAL JOB OPENINGS
Maintenance and Repair Workers, General*	$30,880	$47,820	$69,830	HS Diploma or Equivalent	6,000
Heating, Air Conditioning, & Refrigeration Mechanics & Installers*	$37,260	$56,960	$80,370	Postsecondary Certificate	1,410
Sheet Metal Workers*	$37,020	$61,440	$80,830	HS Diploma or Equivalent	370
Plumbers, Pipefitters, & Steamfitters*	$39,420	$65,040	$94,630	HS Diploma or Equivalent	1,370
Mechanical Engineers*	$62,640	$92,360	$134,850	Bachelor's Degree	970

JOB OUTLOOK COMPILED BY OHIO MEANS JOBS AS OF SEPTEMBER 2024; VISIT OHIOMEANSJOBS.COM FOR MORE INFORMATION.

*Denotes an In-Demand Occupation in the State of Ohio

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CAREER TREE

PENTA CAREER CENTER

PROFESSIONAL CAREERS

- Company Owner/President
- Estimator
- Service Manager
- Consultant
- Design Engineer
- Contractor
- HVAC Inspector
- Project Manager
- Test and Balance Engineer
- Regional Sales Manager
- Product Test Engineer
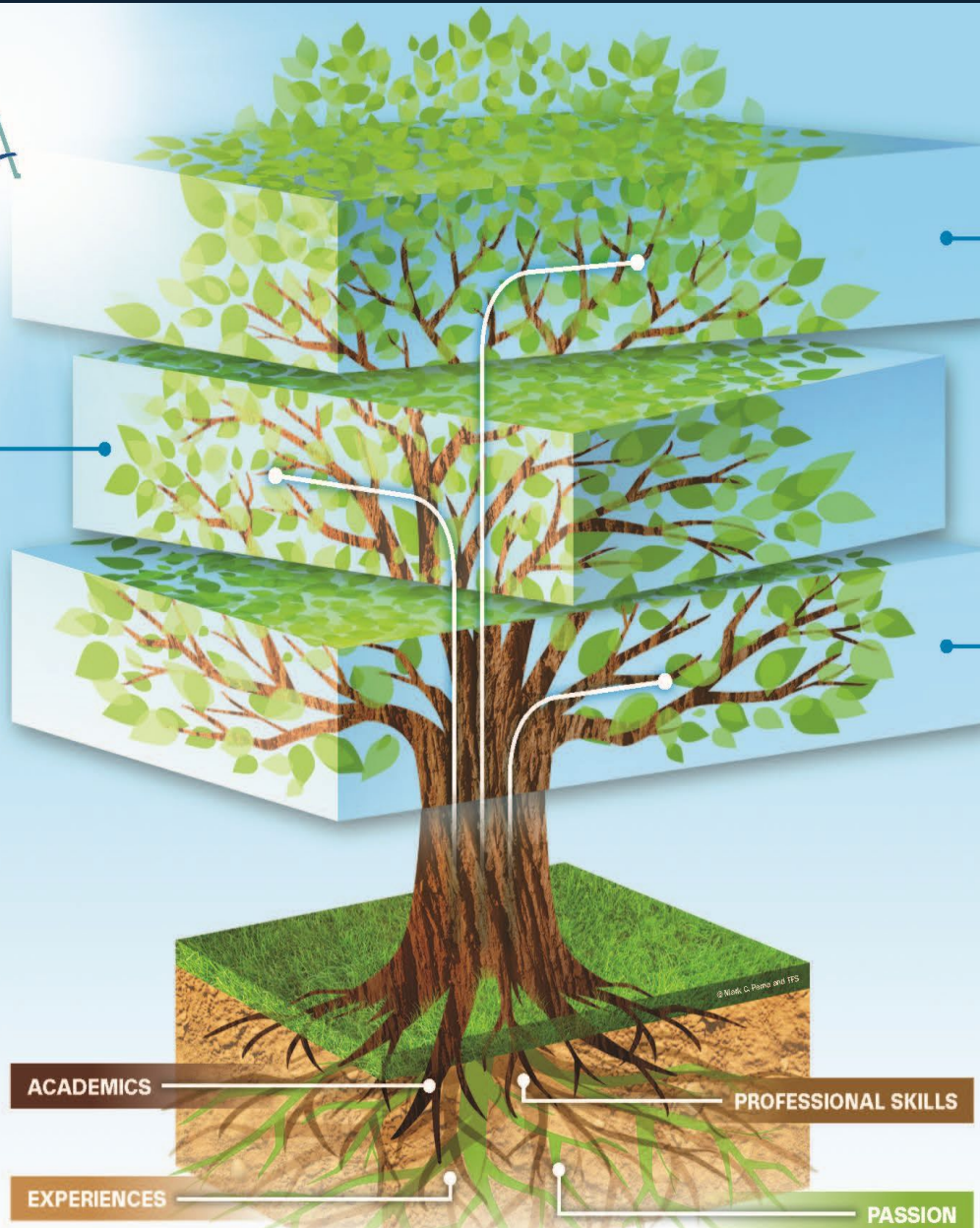- Regional Training Instructor

TECHNICAL CAREERS

- Control Technician
- Energy Auditor
- Refrigeration Technician
- Engineering Lab Technician
- Field Technical Specialist
- Indoor Air Quality Inspector
- Green Energy Specialist
- Boiler Operator
- Lead Installer
- Outside Sales Territory Manager
- HVAC Service Technician
- Technical Training Instructor

ENTRY-LEVEL CAREERS

- Parts Runner
- Truck Driver
- Warehouse Associate
- HVAC Apprentice/Helper
- Installation Helper
- Sheet Metal Apprentice
- Plumber's Helper
- Control Systems Installer
- Appliance Repair Technician
- Manufacturing Assembly/ Floor Associate
- Supply House Associate
- Refrigeration Apprentice

ACADEMICS

PROFESSIONAL SKILLS

EXPERIENCES

PASSION

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