

HEATING & AIR CONDITIONING TECHNOLOGY

2020-2021



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 MEANS JOBS OCCUPATIONS LISTED ACCORDING TO TYPICAL SALARY

| OCCUPATION TITLE | TYPICAL SALARY-BOTTOM 10% | TYPICAL SALARY-MEDIAN | TYPICAL SALARY-TOP 10% | EDUCATION LEVEL | ANNUAL JOB OPENINGS |
|--|---------------------------|-----------------------|------------------------|--------------------------------|---------------------|
| Sheet Metal Workers | \$30,060 | \$56,020 | \$77,750 | HS Diploma or Equivalent | 480 |
| Heating and Air Conditioning Mechanics and Installers | \$29,600 | \$47,270 | \$70,150 | Postsecondary Non-degree Award | 1,380 |
| Refrigeration Mechanics and Installers | \$29,600 | \$47,270 | \$70,150 | Postsecondary Non-degree Award | 1,380 |
| Energy Auditors* | \$40,580 | \$70,320 | \$117,290 | Bachelor's Degree | 3,400 |
| Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products* | \$37,610 | \$79,490 | \$157,300 | Bachelor's Degree | 2,000 |
| Solar Energy Systems Engineers* | \$51,610 | \$90,780 | \$148,450 | Bachelor's Degree | 530 |
| Mechanical Engineers* | \$53,060 | \$79,520 | \$120,030 | Bachelor's Degree | 1,170 |

JOB OUTLOOK COMPILED BY OHIO MEANS JOBS AS OF OCTOBER 2020; VISIT OHIOMEANSJOBS.COM FOR MORE INFORMATION.

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

Instructor: Jeff Miller 419.666.1120 Ext. 1319 jmiller@pentacc.org
Supervisor: Phil Stockwell 419.661.6358 pstockwell@pentacc.org

Career Services: Marshall Wolf 419.661.6372 mwolf@pentacc.org
Admissions: Tricia Hornyak 419.661.6498 thornyak@pentacc.org

EDUCATION WITH PURPOSE

CAREER TREE



TECHNICAL CAREERS

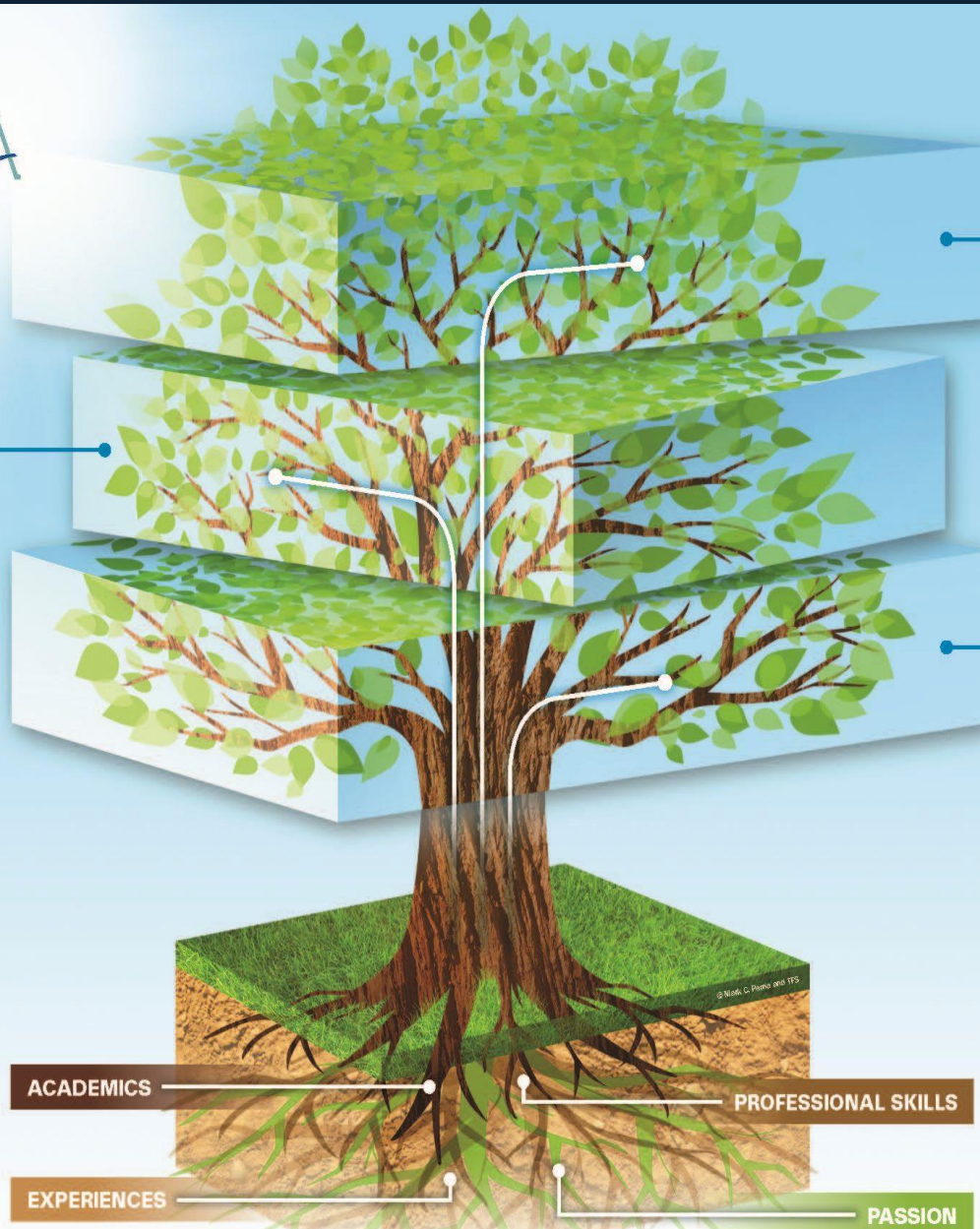
- Control Technician
- Energy Auditor
- Refrigeration Technician
- Engineering Lab Technician
- Field Technical Specialist
- Indoor Air Quality Inspector
- Green Energy Specialist
- Boiler Operator
- Lead Installer
- Outside Sales Territory Manager
- HVAC Service Technician
- Technical Training Instructor

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

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



HEATING & AIR CONDITIONING TECHNOLOGY



For Career Tree® tools and materials please visit TFSresults.com and call our team at 330.840.2680.