



Heating/Ventilation/Air Conditioning

accredited by the National Center for Construction and Education Research (NCCER)



HVAC develops skills and knowledge of servicing and repairing refrigeration, air-conditioning, heating and ventilation systems for home, business and industry. Students become proficient in all aspects of climate control.

Work Environment

People in this trade work both indoors and outdoors, independently and in groups. Initiative and independence are required to install, maintain and repair environmental control equipment.

Career Opportunities

Assembler of Components
EPA Certification
Factory Representative
Oil burner Repairperson
Parts Salesperson
Refrigeration, A/C and Heating Unit Repairperson
Research and Development
Sheet Metal Worker
Systems Design/Layout

Advanced Standing Available*

Baran Institute of Technology
New England Institute of Technology
Pennsylvania College of Technology
SUNY Canton

*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

Employment Outlook

The employment outlook is exceptionally good because the field of climate control is ever-expanding. New technological developments create additional job opportunities.

Starting Salary: \$12/hour with opportunities for overtime. Experienced technicians/repair personnel/troubleshooters may earn more than \$800/week.

Student Supplies (approx. \$100)

1. Long or short-sleeved coverall or work shirt and pants
2. Heavy, sturdy leather safety shoes
3. 6' tape measure

Academic credits integrated:

- Technical Math
- Technical Science
- English 12

CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: National Center for Construction and Education Research (NCCER) - HVAC Exam.

Course Outline

- Basic Electrical Theory
- Heating and Ventilation
- Refrigeration and Air-Conditioning
- Sheet Metal
- Automotive Air-Conditioning
- Troubleshooting/Diagnosis
- System and Unit Repair
- Clean Air Requirements
- Plumbing

Consider these classes at Tech

- Building Grounds/Maintenance*
- Building Trades*
- Carpentry
- Construction Electricity
- Drafting/Computer Aided (CAD)
- Welding

All placements are based upon individual needs and approval from the district and parent/guardian.

*Smaller class size.