TCAT
CROSSVILLE

Mission

The Tennessee Colleges of Applied Technology serve as the premier suppliers of workforce development throughout the State of Tennessee. The Colleges fulfill their mission by:

- Providing competency-based training through superior quality, traditional and distance learning instruction methods that qualify completers for employment and job advancement;
- Contributing to the economic and community development of the communities served by training and retraining employed workers;
- Ensuring that programs and services are economical and accessible to all residents of Tennessee; and
- Building relationships of trust with community, business, and industry leaders to supply highly skilled workers in areas of need.

College Preview Days 2020

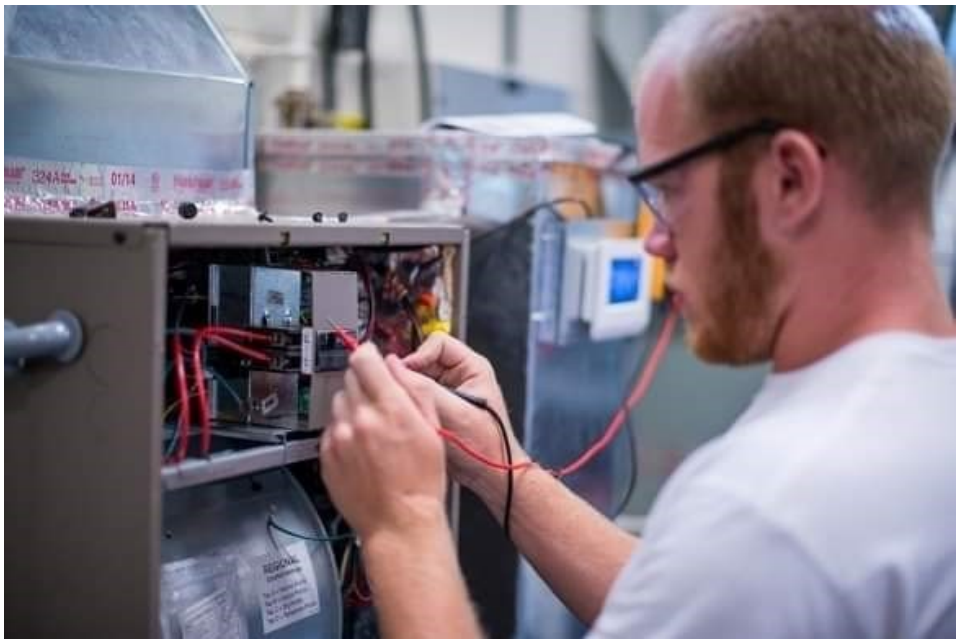
1/21	7/21
2/18	8/18
3/17	9/15
4/21	10/20
5/19	11/17
6/16	12/15

All tours start at 9am and are open to the public.

Traduccion en Espanola disponible

SS-12—006 AA/EEO/ADA Training Establishment
Approved for Veteran's Training

TENNESSEE COLLEGE OF APPLIED TECHNOLOGY
CROSSVILLE



Heating, Ventilation, Air Conditioning, & Refrigeration

Start a new career in 16 months or less!

910 Miller Avenue
Crossville, TN 38555
tcatcrossville.edu
931-484-7502

Heating, Ventilation, AC, & Refrigeration

Description:

This program is instructed by John Podrecca. The HVAC & R program is an individual program that prepares students to work in a variety of jobs in the field of air conditioning and refrigeration. Students are prepared to troubleshoot, repair, and maintain residential and commercial refrigeration; air conditioning; heat pumps; and electrical and gas heating. Students also learn the fundamentals of electricity, electric motors, and controls. Graduates of the program will be able to install and braze refrigeration tubing, diagnose electrical problems; install duct systems; repair light commercial equipment; recover air conditioning and refrigeration refrigerants; locate and repair leaks.

Credentials

HVAC Mechanic Assistant Certificate

432 Hours

Domestic Unit Repair Certificate

864 Hours

Heating Ventilation & Air Conditioning Technician Diploma

1296 Hours

HVAC & Refrigeration Technician Diploma

1728 Hours

Total Tuition/Fees $5,248.00

Textbook/Supplies Cost $1,109.00

Prices are subject to change due to increases

in tuition, books, and supplies

Curriculum/Courses

First Trimester:

HVA 0001 Worker Characteristic

HVA 1010 Technology Foundations

HVA 1020 OSHA

HVA 1030 Shop Safety

HVA 1040 Refrigeration Fundamentals

HVA 1050 Tools Equip & Shop Practices

HVA 1060 Electricity and Controls I

HVA 1070 Installation

HVA 1080 Green Awareness

HVA 1090 Employment Readiness Exam

Second Trimester:

HVA 0002 Worker Characteristic

HVA 2010 Introduction to System Service

HVA 2020 Basic Automatic Controls

HVA 2030 Motors

HVA 2040 Domestic Appliances

HVA 2050 EPA

HVA 2060 Employment Readiness Exam

Third Trimester:

HVA 0003 Worker Characteristic

HVA 3010 Gas Electric and Heat

HVA 3020 Air Conditioning (Cooling)

HVA 3030 Heat Pumps

HVA 3040 Carbon Monoxide

HVA 3050 All Weather Systems Exam

Fourth Trimester:

HVA 0004 Worker Characteristic

HVA 4010 Electricity and Controls II

HVA 4020 Commercial Refrigeration

HVA 4030 Employment Readiness Exam