



MISSION STATEMENT

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

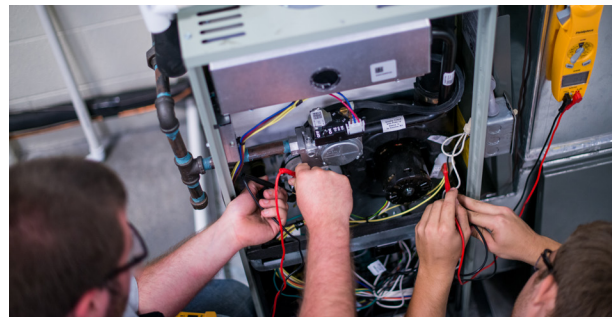
- Providing competency-based training through superior quality, traditional and distance learning instruction methods that qualify completers for employment and job advancement;
- Contributing to the economic and community development of the communities served by training and retraining employed workers;
- 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.



A **Tennessee Board of Regents** Institution
AA/ADA/EEO Training Institution

Accredited by **Council on Occupational Education**
7840 Roswell Road, Building 300, Suite 325
Atlanta, GA. 30350 • 770-396-3898

TCAT Upper Cumberland is an equal access, equal opportunity organization. More: tbr.edu/nds. 2024/07/1701



CLASS SCHEDULES

Full-time classes are offered Monday through Friday between the hours of 7:45 a.m. and 2:15 p.m. Part-time class schedules may vary according to local needs.

This program is offered at the main campus.

STUDENT COST

Cost can be found on our website:
www.tcatuppercumberland.edu/programs.

FINANCIAL AID

Financial aid is available to those students who are eligible. Students can be assessed for eligibility for Federal Pell Grants, Federal SEOG, TN Student Assistance Award, Wilder Naifeh Technical Skills Grant, TN Promise, TN Reconnect, and Federal Work Study. The school also coordinates efforts with the Department of Veteran's Affairs, Voc. Rehabilitation, WIOA, TRA and TOPS.

LOCAL HIGH SCHOOL ARTICULATION

The Tennessee College of Applied Technology Upper Cumberland has articulation agreements with local high schools in the school's service area. These agreements establish guidelines by which high school students may receive advanced placement in programs for skills acquired in high school. For more information on how to receive advanced placement, contact your high school guidance counselor or the Student Services Office at TCAT Upper Cumberland.

910 MILLER AVE
CROSSVILLE, TN 38555
931-484-7502

TCATUPPERCUMBERLAND.EDU

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION

WE BUILD CAREERS.





PROGRAM DESCRIPTION

The Heating, Ventilation, Air Conditioning and Refrigeration program is an individual program that prepares individuals to work in a variety of jobs in the field of residential and light commercial air conditioning and refrigeration.

OUTCOMES

Upon completion of the program, graduates are prepared to troubleshoot, repair, and maintain residential and commercial refrigeration; air conditioning; heat pumps; humidifiers; and electrical and gas heating. Graduates also understand 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.

CERTIFICATES & DIPLOMAS

Certificates

HVAC Mechanic Assistant	432 hours
Domestic Unit Repair	864 hours

Diplomas

Heating Ventilation & Air Conditioning Technician	1296 hours
HVAC & Refrigeration Technician	1728 hours



ADMISSION POLICY

A. Applicants Not Enrolled in High School

Applicants not enrolled in high school are eligible for admission provided that:

1. They are at least 18 years of age or have a high school diploma or equivalent.
2. They declare an occupational objective or demonstrate through testing or counseling reasonable potential for achieving that objective.

B. Applicants Enrolled in High School

Applicants enrolled in high school are eligible for admission provided that:

1. An agreement authorizing such admission concluding between the local Board of Education and the Tennessee College of Applied Technology. Such agreements are subject to the approval of the chancellor or his designee.
2. Admission of Foreign Non-Immigrants. Foreign non-immigrant applicants are eligible for admission if they meet the same conditions required for other applicants.

ADMISSION PROCEDURES

STEPS FOR ENROLLMENT



1
PICK A PROGRAM



2
FILL OUT ONLINE APPLICATION



3
SUBMIT PROGRAM SPECIFIC APPLICATION MATERIALS (IF REQUIRED)



4
REQUEST/SUBMIT TRANSCRIPTS



5
COMPLETE FAFSA



6
SET UP YOUR TCAT STUDENT EMAIL

COURSES

First Trimester

Worker Characteristic
Technology Foundations
OSHA
Shop Safety
Refrigeration Fundamentals
Tools Equipment & Shop Practices
Electricity and Controls I
Installation
Green Awareness
Employment Readiness Exam

Second Trimester

Worker Characteristic
Introduction to System Service
Basic Automatic Controls
Motors
Domestic Appliances
EPA
Employment Readiness Exam

Third Trimester

Worker Characteristic
Gas Electric and Heat
Air Conditioning (Cooling)
Heat Pumps
Carbon Monoxide
All Weather Systems Exam

Fourth Trimester

Worker Characteristic
Air Conditioning System
Commercial Refrigeration
Employment Readiness Exam