



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

DIESEL-POWERED EQUIPMENT TECHNOLOGY

WE BUILD CAREERS.



TCAT
UPPER CUMBERLAND

PROGRAM DESCRIPTION

The Diesel-Powered Equipment Technology program provides practical experience in the repair and maintenance of engines, fuel systems, electrical systems, clutch and transmissions, hydraulics, drivelines and axles, frame and suspension systems, steering systems, brake systems, and heating, ventilation, and air conditioning systems. Students receive instruction in diagnosing trouble, system analysis, disassembly, replacing defective parts, reassembling, etc.

The program mission is to provide technical instruction and skill development to enable students to enter employment in truck, construction, agricultural equipment, and other related fields as technicians. By working on actual diesel powered equipment, students are well prepared to enter the workforce after graduation.

OUTCOMES

- To provide training for those who are interested in obtaining a thorough knowledge of Diesel Powered Equipment component construction, theory of operation, proper service procedures, mechanical skills necessary for gainful employment in the Diesel field, and to obtain ASE Certification in one or more areas.
- To develop a knowledge and skill of the use of tools, diagnostic test equipment, technical manuals, and practical "hands on" industry type shop experience.
- To insure the trainee develops proper safety practices and desirable attitudes such as good moral and personal characteristics essential to job success.
- To develop the student's cognitive and psychomotor skills to be able to pass the examinations administered by the National Institute for Automotive Service Excellence (ASE) and be awarded their certificate showing their areas of demonstrated competence.

Students admitted to the Diesel Powered Equipment Technology program must have a valid driver's license prior to admission.

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



PICK A PROGRAM



FILL OUT ONLINE APPLICATION



SUBMIT PROGRAM SPECIFIC APPLICATION MATERIALS (IF REQUIRED)



REQUEST/SUBMIT TRANSCRIPTS



COMPLETE FAFSA



SET UP YOUR TCAT STUDENT EMAIL

COURSES

First Trimester

Worker Characteristic
Orientation
Safety
Technology Foundations
General Shop Skills
Preventative Maintenance
Basic Diesel Theory

Second Trimester

Worker Characteristic
Diesel Engine Mechanical

Third Trimester

Worker Characteristic
Basic Electricity & Electronic
Electronic Diesel Engine Control

Fourth Trimester

Worker Characteristic
Brakes
Suspension and Steering
Hydraulics

Fifth Trimester

Worker Characteristic
Drive Trains
Heating Ventilation & AC

CERTIFICATES & DIPLOMAS

Certificates

Diesel Technician Helper	432 hours
Diesel Technician Apprentice I	864 hours
Diesel Technician Apprentice II	1296 hours
Diesel Technician Assistant	1728 hours

Diploma

Diesel Technician	2160 hours
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