



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

MACHINE TOOL TECHNOLOGY

WE **BUILD** CAREERS.



TCAT
UPPER CUMBERLAND



PROGRAM DESCRIPTION

The Machine Tool Technology program is designed to provide the student with the ability to work as a machine tool operator, machinist, tool and die maker, industrial maintenance machinist and those in related occupations that require skill in machining metal with such machines as milling machines, lathes, grinders, drill presses, CNC machinery, EDM machinery including the ability to interpret part prints and use precision measuring tools.

CERTIFICATES & DIPLOMAS

Certificates

Production Machine Tender	432 hours
Machine Set-Up Operator	864 hours

Diplomas

General Machinist	1296 hours
Machinist I	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



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
Technology Foundation
Orientation & Practical Safety
Math Concepts I
Engineering Drawings I
Shop Theory I
Bench Work & Manual Machine Tool

Second Trimester

Worker Characteristic
Math Concepts II
Engineering Drawings II CAD
Shop Theory II
Manual Lathe
Manual Milling Machine
Grinding and Abrasive Machines
Manufacturing Materials & Processes
Introduction to Computer Numerical Control

Third Trimester

Worker Characteristic
Engineering Drawings III CAM
Shop Theory III
Precision Grinding
Computer Numerical Control Machining

Fourth Trimester

Worker Characteristic
Employability Skills
Intro to Additive Manufacturing
Shop Theory IV
CNC Turning Center
CNC Machining Center
Electrical Discharge Machining