



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. 2026/07/P28-26



CLASS SCHEDULES

Full-time day classes are offered Monday through Friday between the hours of 7:45 a.m. and 2:30 p.m.

Full-time evening classes are offered Monday through Thursday between the hours of 1 and 9 p.m.

Part-time class schedules may vary according to local needs.

This program is offered at the main campus and at the Cookeville and Livingston campuses.

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

TCAT 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

INDUSTRIAL AUTOMATION TECHNOLOGY

WE BUILD CAREERS.



TCAT
UPPER CUMBERLAND



PROGRAM DESCRIPTION

Train for a career that keeps modern industry running with hands-on experience in mechanical, electrical and mechatronic systems. The Industrial Automation Technology program prepares you to maintain, troubleshoot and repair the equipment used in manufacturing and industrial operations. You'll build a broad technical foundation that helps you adapt to changing technology while learning how to support efficient, reliable production systems.

You will learn how to:

- Understand electrical concepts, mechanical systems and industrial safety
- Read prints and technical diagrams for electrical and equipment systems
- Troubleshoot and maintain motors, controls and mechanical components
- Build skills in preventative maintenance and equipment repair
- Gain exposure to fluid power and industrial system operation
- Learn how modern mechatronic systems are used in manufacturing
- Develop problem-solving skills for diagnosing equipment issues
- Build hands-on experience with industrial tools, training devices and shop equipment

CERTIFICATES & DIPLOMAS

Certificates

Industrial Automation Apprentice	432 hours
Industrial Automation Apprentice II	864 hours

Diplomas

Electrical Maintenance Diploma	1296 hours
Automation and Controls 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



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COURSES

First Trimester

Worker Characteristic
Safety and Orientation
Technology Foundations
Electrical Concepts AC/DC
Print Reading for Electric Systems
Mechanical I

Second Trimester

Worker Characteristic
Motor Control Fluid Power & Mechanical Systems
Industrial Motors & Motor Control Systems
Machine Tool

Third Trimester

Worker Characteristic
Commerce-Industry
Motors/Transformers
Welding, Commercial/Industrial Installations & Mechatronics

Fourth Trimester

Worker Characteristic
PLC/Robotics