



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 the Livingston, Cookeville and Bledsoe County 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

WELDING TECHNOLOGY

WE BUILD CAREERS.



TCAT
UPPER CUMBERLAND



PROGRAM DESCRIPTION

Forge the skills to build, repair and create with confidence in one of today's most essential skilled trades. In the Welding Technology program, you will gain hands-on experience with the tools, techniques and safety practices used in industrial welding and metal fabrication. Training focuses on developing precision, control and job-ready skills for work in a range of welding environments.

You will learn how to:

- Perform common welding processes such as metal inert gas (MIG), tungsten inert gas (TIG) and stick welding
- Prepare metal for welding through cutting, grinding and proper setup
- Read and interpret blueprints and welding symbols
- Safely use welding equipment on mild carbon steel, stainless steel and aluminum
- Understand joint design, layout and basic fabrication methods
- Use oxy-fuel and other cutting processes in shop applications
- Apply safe work practices and follow industry standards
- Build skill in positioning, technique and weld quality
- Work with welding equipment, materials and tools used in the field



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

TCATUPPERCUMBERLAND.EDU

COURSES

First Trimester

Worker Characteristic
Technology Foundations
Shop Orientation & Safety
Cutting Processes
Basic Gas Metal Arc Welding
Gas Metal Arc Welder Certificate

Second Trimester

Worker Characteristic
Shielded Metal Arc Welding
Shielded Metal Arc Welder Certificate

Third Trimester

Worker Characteristic
Gas Tungsten Arc Pipe Weld
Gas Tungsten Arc Welder Certificate
Combination Welder Diploma

CERTIFICATES & DIPLOMAS

Certificates

Welders Helper	84 hours
Shielded Metal Arc Welder	432 hours
Gas Metal Arc Welder	864 hours
Gas Tungsten Arc Welder	1296 hours

Diplomas

Combination Welder	1296 hours
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