

## 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 eighteen (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. Enrollment is limited to one (1) occupational area.

### C. 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)



SUBMIT PROOF OF VACCINATION



REQUEST/SUBMIT TRANSCRIPTS



COMPLETE FAFSA



## CLASS SCHEDULES

Full-time classes are offered Monday through Friday between the hours of 7:45 a.m. and 2:30 p.m. Part-time class schedules may vary according to local needs.

This program is offered at the Main Campus and the TCAT Livingston extension campus located in Cookeville.

TCAT—Livingston at Cookeville Higher Education Campus  
1000 Neal Street, Cookeville TN, 38501

## STUDENT COST

Cost can be found on our website:  
[www.tcatlivingston.edu/programs](http://www.tcatlivingston.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 at Livingston 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 TCATL.

740 HI TECH DRIVE  
LIVINGSTON, TN 38570  
931-823-5525

[WWW.TCATLIVINGSTON.EDU](http://WWW.TCATLIVINGSTON.EDU)

TCAT Livingston is an equal access, equal opportunity organization. More: [tbr.edu/nds](http://tbr.edu/nds). 2024/10/1800/14

# WELDING TECHNOLOGY

WE BUILD CAREERS.





## MISSION STATEMENT

The mission of the Welding Technology program is to provide students with the fundamentals for success in the ever-changing welding industry. Providing access to the equipment, materials, metallurgical theory and sound hands-on instruction needed for entry-level employment in the welding field and its numerous facets.

## COURSE DESCRIPTION

The Welding Technology program is designed to give the students the necessary classroom instruction, hands-on training and practical application needed for entry-level job performance. Knowledge of fundamental welding techniques and industry-proven skills are gained by shop practice, student projects, and hands-on implementation. Oral instructions, written, and performance tests are given to measure the student's proficiencies.

Most instruction is given on an individual basis, thus allowing the student to progress at his/her own pace.

## OVERVIEW

Basic practical experience is gained by shop practice, student projects, and certain repair work. Oral, written, and performance tests are given to measure the student's proficiencies. Most instruction is given on an individual basis, thus allowing the student to progress at his/her own pace.

Welding is a multi-faceted craft and each area of the state has specific processes and skills needed for their industry base. Instructors concentrate on specific area needs, and prepare students with the skills and knowledge necessary to succeed in any area of welding. American Welding Society (AWS) Certification testing is available for those that wish to pursue that option.

## JOB OPPORTUNITIES

Welders are employed in many industries such as construction, automotive, industrial automation, bridge building/infrastructure, ship building, aerospace industries, nuclear energy, manufacturing, public utilities and the petroleum industry.

*DEMAND: With an expected shortage of qualified personnel worldwide, the individuals with the skills and knowledge necessary can expect a secure future and financial security.*

## COURSE OUTLINE

- Safety
- Equipment Setup
- Machine & Accessories
- Metal Preparation & Identification
- Selection of Electrodes & Filler Metals
- Fuel & Shielding Gases
- SMAW
- Basic Metallurgy
- Joints & How to Weld Them
- Layout & Blueprint Reading
- GMAW
- FCAW
- GTAW
- Related Equipment
- Welding Symbols
- Pipe Cutting & Welding
- Code Testing
- Technical Information
- Technical Foundations

## CERTIFICATES AND DIPLOMAS

### Certificates

Shielded Metal Arc Welder	432 hours
Gas Metal Arc Welder	864 hours
Gas Tungsten Arc Welder	1296 hours

### Diplomas

Welder	1296 hours
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