

Our Mission

The Tennessee Colleges of Applied Technology continue to serve as the premier providers for workforce development throughout the State of Tennessee. The colleges fulfill the mission by:

- Providing competency-based training through various types of instructional delivery systems of the highest quality that will qualify individuals for employment and/or advancement in jobs.
- Providing high quality training and retraining of employed workers.
- Providing high quality training that is economical and accessible to all residents of Tennessee, thereby contributing to the economic and community development of the communities we serve.

Tennessee College of Applied Technology Elizabethton

- Accredited by the Commission of the Council on Occupational Education, 7840 Roswell Road, Suite 325, Atlanta, GA 30350, telephone 1-800-917-2081.
- Approved for the training of veterans by the State Office for Veterans' Education and the Tennessee Higher Education Commission.
- Governed by the Tennessee Board of Regents, 1415 Murfreesboro, Road, Suite 350, Nashville, TN 37217, telephone 615-366-4400.

Tennessee College of Applied Technology Elizabethton

Website address: www.tcatelizabethton.edu

426 Highway 91 North

Elizabethton, TN 37643

Telephone 423-543-0070, Toll Free 1-888-986-2368

Fax 423-547-2587

Office Hours: Monday-Friday 7:30 AM– 4:30 PM ET

“Workforce development. It’s what we do.”™

The Tennessee College of Applied Technology Elizabethton, a Tennessee Board of Regents institution, is an AA/EEO/ADA employer and does not discriminate on the basis of race, color, national origin, gender, ability and age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Student Services Coordinator, Tennessee College of Applied Technology Elizabethton, 426 Highway 91 North, Elizabethton, TN 37643, telephone 423-543-0070. Printed by Sabre Printers, 325 West Walnut Street, Johnson City, TN 37604. TBR 260, POE 14200. 1M. 12/13.

**Tennessee College of
Applied Technology Elizabethton**
426 Highway 91 North
PO Box 789
Elizabethton, TN 37644

WELDING



TENNESSEE COLLEGE
OF APPLIED TECHNOLOGY
—ELIZABETHTON—



WELDING

C.I.P. Code 48.0508

The Welding Program provides students with the techniques of welding processes commonly used in industry, such as Shielded Metal Arc (STICK), Gas Tungsten Arc (TIG) and Gas Metal Arc (MIG). Instruction in operations of flame cutting, plasma cutting, grinding, metal preparation and use of tools and equipment, related math, physical properties of metal, effects of heat thickness allowances, shrinkage, basic joint design, layout and fabrication are provided.

LENGTH OF PROGRAM

The average length of this competency-based program is 1,296 hours (12 months). Actual time is dependent upon enrollment and length of time it takes students to achieve each competency. This program contains several completion points designed to prepare students for various entry-level jobs within the Welding field.

ADMISSION REQUIREMENTS

This program operates on an open-entry, open-exit basis. Students may enter the program anytime during the school year, subject to space availability. Students must be at least 18 years of age and not attending public school. However, high school students may attend through dual enrollment provided it is approved by their school counselor, the local school administrator and the College of Applied Technology director.

APPLICATION PROCEDURES

Complete an application for admission. The application may be obtained at the Main Campus, 426 Highway 91 North, Elizabethton, from 7:30 AM to

4:30 PM Monday-Friday, Eastern Time, or online at www.tcatelizabethton.edu.

CERTIFICATE AWARDS

1 month	Welder Helper
3 months	Tack Welder
6 months	Shielded Metal Arc Welder
9 months	Gas, Metal Arc Welder

DIPLOMA AWARD

12 months	Combination Welder
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AWS & ASME Certification Available

UNITS OF STUDY

Shop Orientation and Safety
Basic Welding Procedures, Setting Up
Equipment, Machines and Accessories
Technical Information, Shop Management and
Related Equipment
Flat, Vertical, Horizontal and Overhead Positions
Selecting Electrodes
Pipe Welding to include STICK and TIG Welding
Selecting Wires, Rods, Gases and Electrodes
Flame and Plasma Cutting
Metal Prep and Welding Basic Joints
Pad Welding, Fillet Welds and Groove Welds
Basic Math, Blueprint Reading, Layout and
Structural Projects (live work)
Ferrous Casting, Hard Surfacing, Non-Ferrous
Casting and Metallurgy
Welding Stainless and Aluminum
Brazing and Soldering
Code Testing to include ASME and AWS

The Tennessee College of Applied Technology Elizabethton is a designated American Welding Society Educational Institution member.

CLASS HOURS

Classes meet from 8:00 AM to 3:00 PM Monday-Friday. A part-time training program is also offered in the evening.

STUDENT SERVICES

The Student Services Office provides counseling to all students and potential students. Telephone 423-543-0070 to speak with a counselor. For auxiliary aids and services to individuals with disabilities and/or limited English proficiency, contact the Student Services Coordinator, telephone 423-543-0070.

WEBSITE

www.tcatelizabethton.edu