

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

HVAC / REFRIGERATION



**TENNESSEE COLLEGE
OF APPLIED TECHNOLOGY**
— ELIZABETHTON —

WWW.TCATELIZABETHTON.EDU

HVAC/REFRIGERATION

C.I.P. Code 47.0201

The HVAC/Refrigeration program consists of classroom and shop learning experiences, as well as computer simulators that are concerned with commercial and residential heat pumps, gas furnaces, geothermal units, oil furnaces, chillers and walk-in coolers. Instruction will be given in charging and evacuating refrigerants, testing compressors, relays and overload devices. Other learning experiences include installation, repair, troubleshooting and maintenance of commercial and residential units. The curriculum includes the theory and application of basic principles of air conditioning, cooling, heating, cleaning, filtering and humidifying, blueprint reading, load calculations, air balancing, schematic wiring, diagram reading and low-voltage controls.

LENGTH OF PROGRAM

The length of this competency-based program is 1,296 to 2,160 hours (12 to 20 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 HVAC 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 old 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

CERTIFIED TESTING CENTER

Certification

- Section 608 EPA Certification
- Air Conditioning Certification
- Commercial A/C Certification
- Heat Pump Certification
- Commercial Refrigeration Certification
- GEO-Thermal Certification
- Gas Heat Certification
- Oil Heat Certification
- Hydronics – 1 (Steam) Certification
- Hydronics – 1 (Hot Water) Certification

CERTIFICATE AWARDS

- 4 months HVAC Installer and Service Helper
- 8 months Domestic Unit Repairer
- 8 months EPA Certification
- 8 months Sheet Metal

DIPLOMA AWARDS

- 12 months HVAC Technician
- 12 months Refrigeration Technician
- 16 months HVAC/Refrigeration Technician
- 20 months Commercial Refrigeration / Air Conditioning Technician

UNITS OF STUDY

- Orientation and Safety
- Air Conditioning Systems
- Principles of Heat Transfer
- Heat Pump Systems
- Tools and Equipment
- Heating Systems
- Piping and Piping Principles
- Commercial Refrigeration
- Electricity
- Air Handling
- Controls
- System Installation / Start Up
- Load Calculations
- System Servicing
- Refrigeration System Components
- Sheet Metal

CLASS HOURS

Classes meet from 8:00 AM to 3:00 PM Monday-Friday.

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