



**TENNESSEE COLLEGE  
OF APPLIED TECHNOLOGY**  
KNOXVILLE

# Heating, Ventilation, Air Conditioning & Refrigeration

16 Month Program Offered at Main Campus (Day and Night Classes)  
and Anderson County Higher Education Center (Day Classes)

Day Class (M-F, 8:00am to 2:30pm) Night Class (M-F, 3:30pm to 10:00pm)

## About

The Heating, Ventilation, Air Conditioning & Refrigeration program is an individual program that prepares students to work in a variety of jobs in the field of air conditioning and refrigeration. Students are prepared to troubleshoot, repair, and maintain residential and commercial refrigeration; air conditioning; heat pumps; humidifiers; and electrical and gas heating.

Graduates of the program will be able to install and braze refrigeration tubing, diagnose electrical problems, install duct systems, repair light commercial equipment, recover air conditioning and refrigeration refrigerants, and locate and repair leaks.

## Curriculum and Courses

All full-time TCAT Knoxville programs include Workplace Characteristic courses each trimester.

- Technology Foundations
- OSHA
- Shop Safety
- Refrigeration Fundamentals
- Tools Equipment & Shop Practices
- Electricity and Controls
- Installation
- Green Awareness
- Introduction to System Service
- Basic Automatic Controls
- Motors
- Domestic Appliances
- EPA
- Gas Electric and Heat
- Air Conditioning (Cooling)
- Heat Pumps
- Carbon Monoxide
- All Weather Systems Exam
- Commercial Refrigeration
- Employment Readiness

## Completion Awards

- 432 HVAC Mechanic Assistant Certificate
- 864 Domestic Unit Repair Certificate
- 1296 Heating, Ventilation, and Air Conditioning Technician Diploma
- 1728 Heating, Ventilation, Air Conditioning, and Refrigeration Technician Diploma

Completion Rate (as of 2022)

**97%**

Placement Rate (as of 2022)

**94%**



**LEARN MORE!**

## How To Apply



Complete TCAT Knoxville Application for Enrollment online at [www.tcatknoxville.edu](http://www.tcatknoxville.edu).



Complete the Free Application For Federal Student Aid (FAFSA) online at [www.studentaid.gov](http://www.studentaid.gov). Our school code is 004025.