1233 East College Street, Pulaski, TN 38478 931-424-4014 www.tcatpulaski.edu

Career Training

Administrative Office Technology Advanced Manufacturing Education **CNC** Machining Technology **Computer Operating Systems** and Network Technology **Electrical and Plumbing Construction Technology** HVAC/R **Industrial Electricity Industrial Maintenance Technology** Pharmacy Technician **Practical Nursing Residential Construction Technology** Residential/Commercial Wiring and Plumbing Welding Technology

Online Program

Administrative Office Technology

Campus Locations

Lawrenceburg Instructional
Service Center
North Lawrence Instructional
Service Center
Northfield Instructional
Service Center
South Lawrence Instructional
Service Center



HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION

The mission of the Heating, Ventilation, Air Conditioning, and Refrigeration Program is to prepare students for a career as a HVAC/R technician. Students completing this course of study will become proficient in the application, diagnosis, and service of a wide range of HVAC/R products. This program is self-paced with classroom and shop instruction including theory, application, and service. Major blocks of instruction include electricity, refrigeration, air conditioning, heat pumps, heating and commercial systems. This program is an accredited member of the HVAC Excellence Program.

Employment Opportunities:

- Commercial
- Residential
- Self-employment

Program Instructor:Chris Perkins

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Classes Offered:	Full-Time: Monday-Friday 8-2:30 Part-Time: Monday-Friday 8-11 or 11:30-2:30
Program Length:	2,160 Hours (5 trimesters)
Program Location:	Pulaski Main Campus 1233 East College St. Pulaski, TN 38478
Program Cost including Tuition, Fees and Books/Supplies:	\$1,216 per trimester x 5 trimesters \$1,376 Books/Supplies; Total Cost \$7,456* *These costs are subject to change
Requirements:	Complete the Admissions Process Checklist
Financial Aid:	Available to those who qualify
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ENROLLMENT INFORMATION

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website, www.tcatpulaski.edu

AA/EEO

Course Outline

First Trimester	432 Hours	
Orientation, Safety, Alcohol Edu & Haven Training	6 Hours	
Tech Foundations	30 Hours	
Safety	12 Hours	
Refrigeration Fundamentals	154 Hours	
Refrigeration Fundamentals Tools and Equipment, Shop Practices	28 Hours	
Electricity and Controls		
Installation	24 Hours	
Recover-Recycle-Reclaim	18 Hours	
Work Ethics	12 Hours	
Pass National Career Readiness Certification Exam		
Pass EPA Certification Exam		
Heating and Air-Conditioning Mechanic Helper Certificate		

Second Trimester 86		864 Hours
•	General Safety	6 Hours
•	Introduction to System Service	144 Hours
•	Basic Automatic Controls	92 Hours
•	Applications of Motors	100 Hours
•	Domestic Appliances	
•	Projects	30 Hours
Do	omestic Unit Repairer Certificate	

*Student Chooses 3rd Trimester Module for Completion of Diploma

Third Trimester 1		1296 Hours
ı	General Safety	6 Hours
ı	A/C, (Heating & Humidification)	60 Hours
ı	Air Conditioning (Cooling)	108 Hours
ı	All-Weather Systems	192 Hours
ı	Carbon Monoxide	36 Hours
ı	Projects	30 Hours
Pass R-410A Certification Exam Heating, Ventilation, Air-Conditioning Technician Diploma		

Tr	hird Trimester	1296 Hours
•	General Safety	6 Hours
•	Electricity and Controls	60 Hours
•	Commercial Refrigeration	
•	Laboratory	
•	Internship	60 Hours
Pa	ass R-410A Certification Exam efrigeration Technician Diploma	

Fourth Trimester 1728 Hours This diploma level combines both Refrigeration Technician Diploma and Heating, Ventilation, and Air-Conditioning Technician Diploma.

Heating, Ventilation, Air-Conditioning/Refrigeration Technician Diploma

Fifth	Trimester 2160 Hours
•	General Safety 6 Hours
•	Chilled Water A/C Systems 120 Hours
•	Complex Commercial Refrigeration Systems
•	*Programmable Logic Controllers
•	*Motor Controls
•	*Direct Digital Controls
	*Commercial Loads
•	Projects
l 🛦	NATE LIVAC Care Service (necessing the Care Service Every class qualifies equalities extra NATE LIVAC Care Installation Contification)

- NATE HVAC Core Service (passing the Core Service Exam also qualifies student for the NATE HVAC Core Installation Certification)
- NATE HVAC Specialty Heat Pump Service (passing the specialty Heat Pump Service also qualifies student for Specialty Heat Pump

Installation Air Conditioning Service, and Installation Certifications)
Student must pass both of the above exams along with the EPA and R-410A Certification Exams to receive Commercial Technician Diploma.
Commercial Technician Diploma

- * Upon the completion of the fifth trimester of study, the following is an <u>optional</u> course of study: Supplemental Certificate
- National Electric Code-280 Hours Instructional Length
- * Hours shown for completion are approximately 20 months by a full-time student
- Certificates/Diplomas will be issued after completion of required course work and certification exams
- *All sections must be completed in descending order

Accredited Member Commission of the Council on Occupational Education 7840 Roswell Road, Building 300 Suite 325 Atlanta, GA 30350 Phone: (770) 396-2081 * (800) 917-2081