

1100 Liberty Street | Knoxville, TN 37919 T: 865-546-5567 | F: 865-971-4474 www.tcatknoxville.edu

## Heating, Ventilation, Air Conditioning & Refrigeration Technology

The Heating, Ventilation, Air Conditioning & Refrigeration Technology 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. Students also learn the fundamentals of electricity, electric motors, and controls. 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; locate and repair leaks.

Program/Location			Length	Days	Time	
ACHEC and Knoxville Campus Day			16 Months Monday—Friday		8:00 am—2:30 pm	
Knoxville Campus Evening			16 Months	Monday—Friday	3:30 pm—10:-0	) pm
	Curriculum/Courses		HVA 3050	All Weather Systems Exam		
HVA 0001	Worker Characteristic		HVA 0004	Worker Characteristic		
HVA 1010	Technology Foundations		HVA 4010	Electricity and Controls II		
HVA 1020	OSHA		HVA 4020	Commercial Refrigeration		
HVA 1030	Shop Safety		HVA 4030	Employment Readiness Exar	n	
HVA 1040	Refrigeration Fundamentals					
HVA 1050	Tools Equip & Shop Practices			Completion Awards		Required
HVA 1060	Electricity and Controls I			nic Accistant	Contificato	Hours
HVA 1070	Installation		HVAC Mechanic Assistant Domestic Unit Repair Heating, Ventilation, and Air Conditioning Technician		Certificate	432
HVA 1080	Green Awareness				Certificate	864
HVA 1090	Employment Readiness Exam				Diploma	1296
HVA 0002	Worker Characteristic		-	tilation, Air Conditioning	Diploma	1728
HVA 2010	Introduction to System Service		-	tion Technician		
HVA 2020	Basic Automatic Controls		Completion Rate 2021: 85% Placement Rate 2021: 96%			
HVA 2030	Motors					
HVA 2040	Domestic Appliances					
HVA 2050	EPA		HOW TO APPLY			
HVA 2060	Employment Readiness Exam		All Docu	ments Must be Presente	ed Together to A	pply
HVA 0003	Worker Characteristic	$\Rightarrow$	Complete	the Free Application I	For Federal Stu	dent Aid
HVA 3010	Gas Electric and Heat		(FAFSA) online – the website is <u>www.studentaid.gov</u> and			
HVA 3020	Air Conditioning (Cooling)		our schoo	l code is 004025.		
HVA 3030	Heat Pumps	$\Rightarrow$	⇒ Complete TCAT Knoxville Application for Enrollment			
HVA 3040	Carbon Monoxide		online at v	www.tcatknoxville.edu	and select AP	PLY NOW