

Certificate**RESIDENTIAL HEATING, VENTILATION, AND AIR CONDITIONING SERVICE TECHNICIAN (HVAC)**

Private residence and local businesses need the services of skilled technicians trained in the installation, maintenance, and repair of air conditioning, refrigeration, and heating systems. The Residential HVAC Service Technician certificate at HGTC prepares graduates for employment as an installation specialist, service technician, service manager, or sales representative in the residential and/or light commercial heating, air-conditioning and refrigeration service industry. The essentials of the mechanical and electrical systems of contemporary air-conditioning, heating and refrigeration systems are addressed throughout the program through extensive course work and hands-on lab experience. This program is approved by the local HVAC industry through a program advisory committee.

Program Information

Students must start the Residential HVAC program during the Fall Semester.

Students will be required to purchase the HVAC program tool kit to complete their lab assignments and prepare them for work. The tool kit list, with purchasing options, will be provided at the beginning of the semester.

To complete the ACR 210 Heat Pump class, which is required to graduate, a student must pass the EPA 608 Core and Type II exam. Additionally, all students are required to take the NATE HVAC Support Technician exam.

To receive the Residential HVAC certificate, students must have a 2.0 or better combined GPA in all ACR-prefixed courses.

Day Curriculum Sequence

First Semester - Fall	Course Title	Semester Credit Hours
ACR 102	Tools and Service	3
ACR 106	Basic Electricity for HVAC	4
ACR 108	Refrigeration Fundamentals	3
ACR 118	Air Conditioning Fundamentals	3
ACR 140	Automatic Controls	3
	TOTAL	16
Second Semester - Spring		
ACR 110	Heating Fundamentals	4
ACR 160	Service Customer Relations	3
ACR 206	Advanced Electricity	2
ACR 210	Heat Pumps	4
ACR 250	Duct Fabrication	3
	TOTAL	16
	TOTAL CREDIT HOURS	32

Evening Curriculum Sequence

First Semester - Fall		
ACR 102	Tools and Service	3
ACR 106	Basic Electricity for HVAC/R	4
ACR 108	Refrigeration Fundamentals	3
Second Semester - Spring		
ACR 118	Air Conditioning Fundamentals	3
ACR 140	Automatic Controls	3
Third Semester - Fall		
ACR 110	Heating Fundamentals	4
ACR 160	Service Customer Relations	3
ACR 206	Advanced Electricity	2
Fourth Semester - Spring		
ACR 210	Heat Pumps	4

(Continued)

For more information about gainful employment, visit: <https://www.hgtc.edu/righttoknow>.