

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.

Once enrolled in the program, students must receive a minimum grade of "C" or better on all required courses. 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 |

(Continued)

Fourth Semester - Spring

| | | |
|---------------------------|------------------|-----------|
| ACR 210 | Heat Pumps | 4 |
| ACR 250 | Duct Fabrication | 3 |
| TOTAL CREDIT HOURS | | 32 |

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