

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

Every private residence and small business needs 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 opens many doors of opportunity for HGTC graduates. The self-motivated graduate from this program has the technical training to work as an installation specialist, service technician, service manager, or sales representative anywhere in the country. This program is approved by the local HVAC industry through a program advisory committee.

**PROGRAM INFORMATION****Course Sequence and Progression Requirements**

To graduate, a student must pass the Core and Type Two sections of the EPA examination. Additionally, all students are required to take the Residential Air Conditioning and Heating Industrial Competency Exam (ICE).

**DAY CURRICULUM SEQUENCE****First Semester - Fall**

|         |                               |           |
|---------|-------------------------------|-----------|
| 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         |
|         | <b>TOTAL</b>                  | <b>16</b> |

**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         |
|         | <b>TOTAL</b>               | <b>16</b> |
|         | <b>TOTAL CREDIT HOURS</b>  | <b>32</b> |

**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         |
| ACR 250 | Duct Fabrication          | 3         |
|         | <b>TOTAL CREDIT HOURS</b> | <b>32</b> |

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