

AIR CONDITIONING/ REFRIGERATION TECHNICIAN CERTIFICATE IN APPLIED SCIENCE

Program Description

This program trains students to install and service heat pumps, gas, electric equipment, and commercial refrigeration units.

Embedded Certificate

This program contains one or more embedded certificates which will automatically be awarded if the certificate requirements are met unless the student completes and submits the Program of Study Change Form (https://www.gvltec.edu/admissions_aid/student_forms/) requesting to opt out of the embedded certificate.

Vision Statement

The Heating, Ventilation, Air-Conditioning, and Refrigeration (HVAC/R) program will provide skilled personnel trained that is consistent with the industry workforce needs.

Mission Statement

The Heating, Ventilation, Air-Conditioning, and Refrigeration (HVAC/R) program will incorporate practical “hands-on” and “real-world problem solving” training technology into a curriculum that is consistent with the changing skill requirements of the industry. Through planned evaluations from the program advisory committee composed of representatives from local AC/R companies, the student will demonstrate professional skills of ethics and integrity while learning in a collaborative teamwork environment.

Entrance Requirements

Acceptable placement test score(s); high school diploma or GED not required. Students may enter this certificate any semester with department head approval.

Type of Program

Day or evening

Professional Credentials

- EPA Technician (subject to passing EPA exam)
- HVAC Excellence Employment Ready Certification (subject to passing EPA exam)
- North American Technician Excellence's (NATE) Knowledge Areas of Technician Expertise Core (subject to passing EPA exam)

Program Accreditation

The Air Conditioning/Refrigeration Technician certificate program is accredited by HVAC Excellence.

Employment Opportunities

Installation and servicing of all types of heating and air conditioning and refrigeration equipment

Visit our web page at <https://www.gvltec.edu/hvacr/>.

Recommended Program Schedule

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

Note: Please contact your advisor for recommended evening schedules.

| First Semester | | Hours |
|------------------------------------|-------------------------------|-----------|
| ACR 101 | Fundamentals of Refrigeration | 5 |
| ACR 102 | Tools and Service Techniques | 3 |
| ACR 106 | Basic Electricity for HVAC/R | 4 |
| Total Semester Hours | | 12 |
| Second Semester | | Hours |
| ACR 110 | Heating Fundamentals | 4 |
| ACR 120 | Basic Air Conditioning | 4 |
| ACR 131 | Commercial Refrigeration | 4 |
| ACR 140 | Automatic Controls | 3 |
| Total Semester Hours | | 15 |
| Third Semester | | Hours |
| ACR 150 | Basic Sheet Metal | 2 |
| ACR 160 | Service Customer Relations | 3 |
| ACR 210 | Heat Pumps | 4 |
| Total Semester Hours | | 9 |
| Total Required Credit Hours | | 36 |