

Residential HVAC Technician

Help others take back control of their comfort as a Residential HVAC technician! This program will teach you how to install, repair and maintain machines that regulate temperature and ventilation in buildings. It's more than working on heating and cooling elements though, as an HVAC technician you'll also learn how to read blueprints to prepare space for pipes and ductwork. Technicians are also tasked with monitoring compliance with local government regulations to ensure that the system is installed in a way that provides for the most effective climate control in the building or space.

Residential HVAC Technician: How You'll Learn Hands-On

Get out of the classroom and into the real world with projects such as:

- Diagnosing and fixing heating and cooling equipment malfunctions
- Working on a Habitat for Humanity house

Where it Can Take You

Use the skills you'll learn in this program to find a career you'll love as a Residential HVAC Technician. Other possibilities include:

- HVAC Service Technician
- Manufacturing Technician
- Sales Executive HVAC R
- Entrepreneur

What You'll Learn

Course	Hours
Principles of Thermodynamics and Heat Transfer	60
Piping and Piping Practices	45
Electricity for HVAC/R	60
HVAC/R Controls	45
HVAC/R Solid State Electronics	30

Load Calculations	15
Refrigerant System Components	90
Air Conditioning Systems	120
Refrigerants and Lubricants	15
Refrigerant Recovery	15
Refrigerant Retrofits	15
Heat Pumps	30
Heating Systems	120
Air Handling	45
HVAC/R System Installation and Start-up (Residential)	120
HVAC/R System Servicing and Troubleshooting (Residential)	90
Indoor Air Quality	15
HVAC/R Preventive Maintenance	15
HVAC/R Codes, Regulations and Standards	30
Professional Service	15
Workforce Staging	30
Intro to HVACR: Safety, Tools and Equipment	30
Total	1,050

Career Readiness Certificate

[WorkKeys®](#), an assessment tool from the ACT® organization, measures skills employers have identified as critical to job success in their industry and are used in hiring and promoting employees. Students are able to earn the ACT®-issued [National Career Readiness Certificate](#) by meeting the score requirements for their job field on three WorkKeys® assessments.

Matching the right employees with the right job creates employee job satisfaction, increased self-confidence and the best wages possible for the employee. The employer benefits with reduced turnover and training, increased productivity and overall company success. To learn about the WorkKeys® scores needed for your future career field visit [Job Profiles](#).

The required WorkKeys scores for this career major are:

Applied Math - 3
Workplace Documents - 3
Graphic Literacy - 3

Graduation Requirements

In order to be successful in a career, students will need to meet all technical and academic standards related to their career of choice at Meridian. Meridian offers rigorous programs of study designed in cooperation with business and industry to ensure students are fully prepared for the demands of the workplace.

Meridian's Career Ready Credential

When a student completes all standards as set forth in their program of study, they will be considered a graduate of Meridian and receive the Career Ready Credential. Students who do not meet these standards will not be considered graduates of Meridian. Students should have:

- Completed all courses in a career major with a grade of "C" or above and achieved required industry-based certifications for the career major
- Achieved WorkKeys® scores at or above the level required for the career major or earned an ACT® composite score of 19 or greater (Students may substitute equivalent scores on SAT, ACCUPLACER or other approved assessments.)

Additional Endorsements

Students earning a Career Ready Credential may also earn the Postsecondary Ready Endorsement, Citizenship Ready Endorsement and the National Career Readiness Certificate (CRC).

Postsecondary Ready Endorsement

- Earned, or was on track to earn, a high school diploma or GED at the time of Meridian graduation
- Achieved a subscore of 19 or greater on the ACT® in math, English, reading and science (Students may substitute equivalent scores on SAT, ACCUPLACER or other approved assessments.)

Citizenship Ready Endorsement

- Completed employment profile, résumé, job application, cover letter, mock interview and job search training through OKJobMatch.com
- Documented active membership in a [CareerTech Student Organization](#) or professional association related to the program of study
- Documented 20 hours of volunteerism or service in a community activity

National Career Readiness Certificate (CRC)

- Completed WorkKeys® assessments in Applied Mathematics, Locating Information and Reading for Information and received a silver, gold or platinum National [Career Readiness Certificate](#) through the Oklahoma Department of Career and Technology Education.

Get Started

Apply for [admission as a high school student](#). Apply for [admission as an adult](#). Contact the Career Planning Center with questions at [405.377.3333](tel:405.377.3333).