

Help others take back control of their comfort as a heating, ventilation and air conditioning (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.

### **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. 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 HVAC/R: Safety, Tools and Equipment	30
<b>Total</b>	<b>1,050</b>

**Course**