

# HVACR Certified Technician

## Online HVACR Technician Training Course



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### Overview

#### **Become a Certified HVACR Technician**

New construction is fueling the industry, so there's no better time to enter the HVACR field. This course will prepare you to earn NATE or HVAC Excellence certification in under 12 months! You'll master core skills like accurate measurement and conversions, heat carrying capacity, condensation and vaporization, and air weight and value.

### Jobs

According to the Bureau of Labor Statistics the employment of HVACR technicians is expected to grow 13% during the next few years, which equals 46,300 new jobs! The BLS also states that the average salary for these developers is just under \$49,000 per year with top earners making nearly \$78,000.

### FAQ

#### **WHAT DOES AN HVACR TECHNICIAN DO?**

Heating, air conditioning, and refrigeration (HVACR) technicians, also called installers or mechanics, work on the systems that control the temperature, humidity, and quality of the air in our homes, workplaces, and all other types of buildings.

#### **DO HVACR TECHNICIANS NEED A CERTIFICATION?**

Many states require that HVACR technicians have a license before they are able to work independently. NATE and HVAC Excellence certifications are widely recognized both in the field and by customers seeking service.

### **DOES THIS COURSE PREPARE ME FOR CERTIFICATION?**

Yes. This HVACR Technician Certification course will prepare you for the HVAC Excellence Core and Professional Technician certifications exams, the NATE Core and Specialty Test certification exams, and the EPA Section 608 certification exam.

### **HOW LONG DOES IT TAKE TO COMPLETE A CERTIFIED HVACR TECHNICIAN COURSE?**

This Certified HVACR Technician course can be completed in 12 months or less, and it will help you:

- Build a strong foundation of HVACR service, repair, and maintenance
- Prepare to sit for the NATE certification exams
- Prepare to sit for the HVAC Excellence certification exams
- Prepare to sit for the EPA 608 Refrigerant Handling exam

### **Curriculum**

#### **Prerequisites and Requirements**

This course is designed for HVACR technicians with one-to-two years of industry experience. A high school diploma or equivalent is required.

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### **Curriculum**

#### **SAFETY, TOOLS AND EQUIPMENT, AND SHOP PRACTICES**

Learn general safety practices as well as how to care for and use all the tools you will come across on the job.

#### **AUTOMATIC CONTROLS**

Understand automatic control components and applications including troubleshooting for basic through more advanced systems.

#### **ELECTRIC MOTORS**

Gain a full understanding of electric motors including types, applications, controls, and troubleshooting techniques.

#### **COMMERCIAL REFRIGERATION**

Learn the ins and outs of commercial refrigeration components including evaporators, condensers, compressors, expansion devices, ice machines, special applications and systems, and more.

#### **AIR-CONDITIONING (COOLING)**

Understand comfort and psychometrics, air distribution and balance, installation, energy auditing, common conditions, troubleshooting techniques, and more.

#### **ALL-WEATHER SYSTEMS**

Learn about the heat gains and losses that occur in various structures as well as detailed information on both air source and geothermal heat pumps.

#### **DOMESTIC APPLIANCES**

Get detailed information on domestic appliances including refrigerators, freezers, and air conditioners.

## COMMERCIAL AIR-CONDITIONING AND CHILLED-WATER SYSTEMS

Learn the ins and out of cooling towers, pumps, and chilled-water systems including operation, maintenance, and troubleshooting for commercial, packaged rooftop, variable refrigerant flow, and variable air volume systems.

SIMULATION CHALLENGE MODE: HVAC

SIMULATION CHALLENGE MODE: ELECTRICITY FOR HVAC

### Instructors

#### Mike Baker

Mike Baker has been an instructor since 2011. He was previously an HVAC Program Director at both Virginia College and Vista College. Baker was a HVAC technician for several decades and has experience hiring, training, and managing HVAC Technicians. He holds numerous HVAC Excellence certifications, several Green Mechanical Council certifications, an EPA 608 Universal certification, and Emerson Climate Technology certifications. He has served as both an HVAC Excellence Instructor and Exam Proctor.

## Objectives

- Understand basic components of the vapor-compression and refrigeration cycles, functions and characteristics of system refrigerants, piping operations
- Learn proper installation and operation of HVAC systems
- Understand EPA laws related to safe handling and transport of refrigerants
- Proper recovery, recycling, and retrofitting of refrigerants

## Enrollment & Registration

This course is 100% online. Start anytime.

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