edmentum™ | POWERED BY Interplay

# EDMENTUM CAREER: TRADE PREP

# HVAC

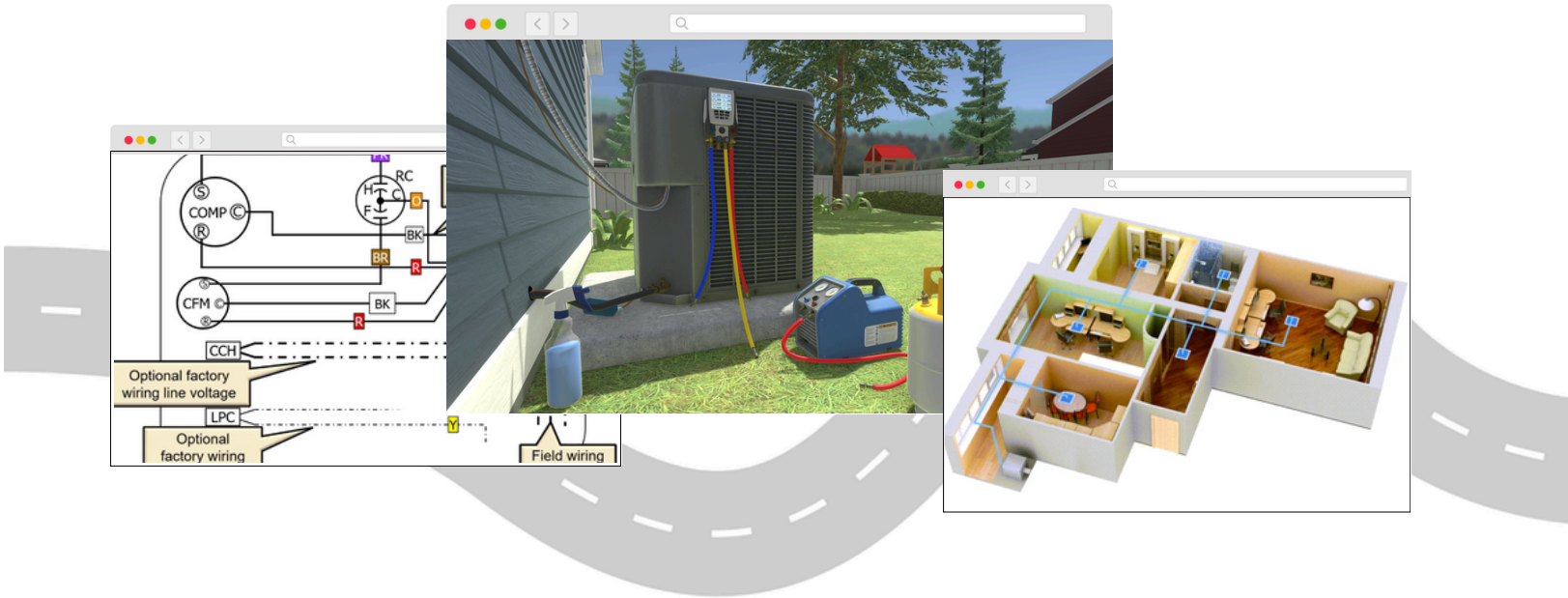
## Program Guide

## Unlock a Path to a New HVAC Career

Start your journey towards a new career with skilled trades high school content for Construction and Building Trades. Embark on an expertly curated program where you can build skills, earn a job-ready certificate, and have the option to pursue industry-recognized certifications to turn you into a highly competitive job candidate. By leveraging the power of immersive 3D simulations and high-impact video content, you will build the essential skills needed to enter the workforce.

The HVAC Program prepares you for entry-level HVAC positions. After completing the program, you should be employable as a pre-apprentice-level HVAC technician who can be a valuable helper in the field.

- **67 Expert-led Training Hours**
- **HVAC Career Exploration**
- **Interplay Job-Ready Certificate**
- **Guidance for Industry Certification**



# HVAC Program Guide

## Skilled Trades High School Content for In-Demand Jobs

Edmentum Career: Trade Prep has what need to unlock your potential and start a new career. After completing the program, you will receive an Interplay Learning Job-Ready Certificate.

### Getting Started
- What is HVAC?
- Trades Math
- Basic HVAC Tools
- HVAC Safety Basics
- HVAC Supplies
- HVAC Technicians
- Hand and Power Tool Safety

### HVAC Fundamentals
- HVAC Systems
- HVAC System Parts
- HVAC Heating Components
- HVAC Cooling Components
- Refrigerants Overview
- AC System Tools - Pressure and Refrigerant Basics
- Temperature, Pressure, and Heat
- Evaporators and Condensers
- HVAC Maintenance
- HVAC Ducting and Airflow

### Electrical for HVAC
- Lockout/Tagout
- How to Use a Multimeter
- Troubleshooting Basic Circuits
- Symbols and Wiring Diagrams
- Meters, Switches, Loads, and Circuits

### HVAC Refrigeration
- Introduction to Refrigeration Systems
- Refrigeration System Accessories

### HVAC: Evacuation and Charging
- Leak Check and Evacuation
- Charging Part 1: Tools and Rules
- Charging Part 2: Subcooling and Superheat
- Leak, Evacuation, and Charging

### HVAC Troubleshooting
- Airflow Testing Procedures
- Troubleshooting Motors
- Residential A/C Troubleshooting
- Heat Pump Troubleshooting (Residential)

## Become a More Competitive Job Candidate

Learn more about a career in multifamily maintenance with additional, optional content.

### CAREER EXPLORATION

Explore immersive experiences to help visualize the day-to-day duties, tools, and skills required for each career path.

### INDUSTRY CERTIFICATION

NATE Ready-to-Work Exam*
OSHA 10-Hour Construction Industry Exam*
EPA Section 608 Certification Exam*

**Trade Prep provides guidance that connects students to relevant third-party exam information. Completing the exam is an additional purchase.*

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