

PHCC Academy®

HVACR Pre-Apprentice Syllabus

Course Contact for Registration and Non-LMS Questions

State Chapter Partner

Refer to <https://www.phccfoundation.org/foundation/phcc-academy-partners/>

Course Contact for Technical Problems in Absorb LMS

PHCC Academy® Staff - AcademySupport@naphcc.org

Welcome to the PHCC Academy® Online HVACR Pre-Apprentice Course!

Course Description

An introductory course designed to help entry level HVACR workers be productive as helpers, and assist in determining an appropriate career training path. The course offers an in-depth introduction to HVACR definitions and principles, customer service and soft skills; safety and first aid; foundational scientific and mathematic principles; tools, materials, and joining methods; the refrigeration cycle and refrigerants; and HVACR systems and components.

Course access is available up to 4 months (120 days). Please make sure you download your transcripts and certificates.

Modules

Module 1: HVACR Foundations

- HVACR Technician's Role
- Customer Relations & Professionalism
- Overview of Codes & Regulations
- Basic Troubleshooting Process

Module 2: HVACR Safety

- General Safety Practices
- Emergency First Aid
- Electrical Safety

Module 3: Scientific Principles Applied to HVACR

- Heat & Temperature
- Fluids & Pressure
- Electricity & Magnetism

Module 4: Mathematical Principles Applied to HVACR

- Numbers & Problem-Solving
- Application in HVACR
- Measurement in HVACR

Module 5: Overview of Tools, Materials, and Methods

- Commonly Used Tools
- Commonly Used Materials
- Commonly Used Methods

Module 6: The Refrigeration Cycle & Refrigerants

- Refrigeration Cycle
- Refrigerants & Lubricants

Module 7: HVACR Systems & Components

- Cooling Systems
- Heating Systems
- Ventilation Systems

Final Exam