



NCCER – HVACR – Level 1

Certification website: [HVACR - NCCER](#)

Credential Summary

This rigorous HVACR (Heating, Ventilation, Air Conditioning and Refrigeration) curriculum prepares learners for a career as skilled heating, air conditioning, and refrigeration mechanics and installers. It covers the concepts technicians need to safely install, maintain, and troubleshoot HVACR systems. The curriculum also covers needed basic knowledge of sheet metal, welding, and pipefitting.

Overview

- **Related Instructional Hours:** 192.5
- **Exam details:** Pass with 70%
- **Third party testing provider:** National Center for Construction Education & Research (NCCER)
- **Exam cost:** \$3
- **Renewal details:** N/A

Job Opportunities

- **Relevant SOC codes**
 - Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9021
 - Maintenance and Repair Workers, General 49-9071
 - Helpers--Installation, Maintenance, and Repair Workers 49-9098
- **Demand Information**
 - Average flame ranking = 3.91/5
- **Average Wages**
 - Ranges from \$36,980 (17.78 per hour) to \$56,120 (26.98 per hour)
(Average wages pulled as of October 2023)

Knowledge, Skills, and Competencies

- Introduction to HVACR
- Trade Mathematics
- Basic Electricity
- Introduction to Heating
- Introduction to Cooling
- Air Distribution Systems
- Basic Copper and Plastic Piping Practices
- Soldering and Brazing
- Basic Carbon Steel Piping Practice

Post Secondary Relevance

- **Next level programs of study**
 - Principles of HVAC
 - HVAC Fundamentals
 - HVAC Service