



Heating, Ventilation, and Air Conditioning Career Technical Training Area

Construction Career Pathway

Heating, Ventilation, and Air Conditioning (HVAC)

The Job Corps HVAC career training program takes 8 to 12 months to complete and requires training in the following subject areas:

- Introduction to HVAC
- HVAC tools and equipment
- Copper and plastic piping
- Ferrous metal piping
- Introduction to cooling
- Chimneys, vents, and flues
- Service technician maintenance skills
- Accessories and optional equipment
- Point-of-sale/Counter skills
- Planned maintenance
- Introduction to control circuit troubleshooting
- Leak detection, evacuation, recovery, and charging
- Introduction to gas heating troubleshooting (optional)
- Introduction to electric heating troubleshooting (optional)
- Introduction to heat pump troubleshooting (optional)
- Introduction to cooling system troubleshooting (optional)
- HVAC math
- Alternating current
- Solder and brazing
- Basic electricity
- Introduction to heating
- Air distribution systems
- Metering devices
- Compressors
- Electric heating (optional)
- Heat pumps (optional)

Credentials:

Students who complete a Job Corps training program are eligible to receive the following credentials:

- Construction Safety & Health OSHA 10-Hour Training
- NCCER Core Curriculum Completion (for center-operated programs)
- NCCER Level 1 HVAC Completion (for center-operated programs)
- NCCER Green Certificate of Completion (for center-operated programs)

Eligibility requirements:

Before completing an HVAC training program, students should:

- Have the basic math and reading skills necessary to perform the job.
- Complete the core curriculum and pass all written and performance tests.

Average length of training:

8 to 12 months

The salary range for various careers in HVAC is:

\$35,000 to \$52,000/year

Green Training



Job Corps students who enter the HVAC career technical training area will also train in a variety of green subject areas to prepare for successful careers in the new green economy. Students will develop knowledge and skills in the following green technology and industry practices.

- Introduction to Environmental Awareness and Green Building
- Reject, Reduce, Reuse, Recycle
- Alternative materials
- Proper disposal of HVAC system
- Flush-out techniques
- ENERGY STAR HVAC system
- MERV and AFUE rating systems

THE BENEFITS OF JOB CORPS

Hands-on training and internships • Housing, meals, and basic medical care • Earn while you learn: Biweekly living allowance • Administered by the U.S. Dept. of Labor

What is Job Corps?

- **A residential career training program**
- **Your path to a career in a high-growth industry**
- **A place to earn your high school diploma or GED**
- **Career counseling and support after graduation**



Career Technical Training programs vary at different Job Corps centers.

Administered by the U.S. Department of Labor, Job Corps is the nation's largest career technical training and education program for low-income students ages 16 through 24. Job Corps is a U.S. Department of Labor Equal Opportunity Employer Program. Auxiliary aids and services are available upon request to individuals with disabilities. TDD/TTY telephone number is (877) 889-5627.