



Entry HVAC

Tuesdays & Wednesdays 6 - 9 pm
14 weeks

Training Cost: \$1800 - Free to Qualified Applicants

- **Cost includes study guide, certification costs and some class supplies**

Entry HVAC Course Description

Heating, ventilation, and air conditioning (HVAC) is an exciting field full of possibilities and job opportunities!

This course will cover refrigeration principles that can be applied to servicing air conditioning and refrigeration equipment. Students will learn scientific and mathematical principles applicable to HVAC systems.

Additional topics include how to evacuate and recover refrigeration systems. Also, students will learn how to calculate airflow, which is critical when charging units with refrigerant.

Lastly, students will study to earn the EPA 608 Technician Certification which makes it possible for them to service refrigeration equipment. Students will also work to complete OSHA 10 certification. Pipe brazing will be covered if time allows.

Career Pathway

After acquiring the basic skills, knowledge and certification this class offers, entry-level employees usually begin by assisting experienced technicians. They may begin by performing simple tasks such as carrying materials, insulating refrigerant lines, or cleaning furnaces. In time, they move on to more difficult tasks, such as cutting and soldering pipes and sheet metal and checking electrical and electronic circuits.

There are additional certifications available once job experience is gained. Technicians can choose to specialize or move into related careers. Some open their own contracting business.

For more information on HVAC careers go to: natex.org

Central Nine Career Center Adult Education
1999 US 31 S, Greenwood IN 46143
317-888-4401 x222 / centralnineadulthood.org

IMPORTANT TO KNOW

- Professionalism and punctuality are required for this class
- Perfect attendance is the goal! 80% or higher is required to receive a certificate of completion.
- This class includes classroom lectures and lab time to provide “hands on” experiences.
- Safety glasses, basic tools and work gloves are available for use in the lab.

Essential Skills Important to Employers:

Attention to Detail / Work Ethic / Information Gathering / Following Directions / Professionalism

HVAC FAST FACTS

Salary range in Indiana is \$27,820 - \$67,430

Common Tasks and Working Conditions

- Install or repair heating, central air conditioning, or refrigeration systems.
- Repair motors, compressors, pumps, fans, ducts, pipes, thermostats, and switches.
- Diagnose and correct problems throughout an entire system.
- Take apart systems to repair and then reassemble them.
- Connect electrical wiring and controls and then test to make sure they are operating properly.
- Complete maintenance work on heating units not being used during the summer, as well as air conditioning units not being used during the winter.
- Heating, air-conditioning, and refrigeration mechanics and installers work in homes, retail establishments, hospitals, office buildings, and factories—anywhere there is climate-control equipment that needs to be installed, repaired, or serviced. They may be assigned to specific job sites at the beginning of each day or may be dispatched to a variety of locations if they are making service calls.
- Technicians may work outside in cold or hot weather, or in buildings that are uncomfortable because the air-conditioning or heating equipment is broken. In addition, technicians might work in awkward or cramped positions, and sometimes they are required to work in high places. Hazards include electrical shock, burns, muscle strains, and other injuries from handling heavy equipment. Appropriate safety equipment is necessary when handling refrigerants because contact can cause skin damage, frostbite, or blindness. When working in tight spaces, inhalation of refrigerant is a possible hazard.
- The majority of mechanics and installers work at least 40 hours per week. During peak seasons, they often work overtime or irregular hours. Maintenance workers, including those who provide maintenance services under contract, often work evening or weekend shifts and are on call. Most employers try to provide a full workweek year-round by scheduling both installation and maintenance work, and many manufacturers and contractors now provide or even require year-round service contracts. In most shops that service both heating and air-conditioning equipment, employment is stable throughout the year.

Why earn an HVAC certification?

The job outlook for HVAC Technicians is promising with the number of job openings expected to increase up to 14% in the next 10 years. Throughout the learning process, technicians may have to take a number of tests that measure their skills. For those with relevant coursework and less than 2 years of experience, the industry has developed a series of exams to test basic competency in residential heating and cooling, light commercial heating and cooling, and commercial refrigeration.

Advancement usually takes the form of higher wages. Some technicians, however, may advance to positions as supervisor or service manager. Others may move into sales and marketing. Still others may become building superintendents, cost estimators, system test and balance specialists, or, with the necessary certification, teachers. Those with sufficient money and managerial skill can open their own contracting business.