

HVAC Technology

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Why HVAC?

One of the fastest-growing service occupations, Heating, Ventilation and Air Conditioning has seen major changes in recent years as the result of a national emphasis on fuel conservation and environmental concerns.

Every private residence, business, industry and agency needs the skill of technicians trained in the installation, maintenance and repair of air conditioning, refrigeration and heating systems. And because these systems are increasing in complexity, skilled technicians

will be in higher demand in the future to keep them running at maximum capacity.

In Piedmont Tech's HVAC program, you'll learn to diagnose and repair malfunctions; size, fabricate and install air duct systems; and estimate cooling and heating loads for selection of the most efficient systems for a given building. Practical training in a well-equipped shop and outside installation of service projects will give you the on-the-job experience you'll need to get started in the HVAC industry after graduation.

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HVAC Curricula

What will I do on the job?

Heating, air-conditioning and refrigeration technicians and installers work with sheet metal and piping, and repair machinery, such as electrical motors, compressors and burners. HVAC graduates will install or repair heating, central air conditioning or refrigeration systems, including oil burners, hot-air furnaces and heating stoves.

What skills will I use?

Depending on your career path, some of your responsibilities could require you to:

- Adjust system controls to settings recommended by manufacturer to balance system.
- Assemble, position and mount heating or cooling equipment, following blueprints.
- Assist with other work in coordination with repair and maintenance teams.
- Comply with all applicable standards, policies and procedures, including safety procedures and the maintenance of a clean work area.
- Cut and drill holes in floors, walls and roof to install equipment, using power saws and drills.
- Fabricate, assemble and install duct work and chassis parts, using portable metal-working tools and welding equipment.

How much can I earn?

Your earnings will vary by the career path you choose. Find below some sample salary ranges:

HVAC Technician and Installer:

S.C. Earnings Range: \$23,400-\$49,500

S.C. Average: \$34,600

* Based on employment statistics from South Carolina Wage Information and the Bureau of Labor Statistics. Visit our Web site for more information.

Who will hire me?

Job prospects for HVAC technicians are expected to be excellent over the next decade, and because of continued growth in residential, commercial and industrial climate-control systems, the demand for skilled technicians will remain strong.

Recent graduates have found jobs with Ace Heating & Cooling, Accounting Systems, Actaris, B&L Services, Burns Service Center Inc., Butler Heating & Cooling, Cullum Electric, Hill's Service Company and many more.

For more information about the HVAC Department, including course requirements and salary ranges, visit our Web site.

HVAC Technology Associate Degree:

Students are trained to diagnose and repair malfunctions; size, fabricate and install air duct systems; and estimate cooling and heating loads for selection of the most efficient systems for a given building.

Refrigeration Applications Certificate:

The Refrigeration Applications Certificate provides students with the theory and hands-on training in the operation of refrigeration system design and component application. The certificate program will focus on installation, start-up, service repair and preventative maintenance of commercial and domestic refrigeration systems.

Heating Fundamentals Certificate:

The Heating Fundamentals Certificate provides students with the theory and hands-on training in the operation of heating and cooling system design and component application. The certificate program will focus on concepts of installation, service repair, preventative maintenance and start-up of heating and cooling systems.

