

# BuildND.org

## HVAC Technician

### Job Description

HVAC (heating, ventilating, air conditioning and refrigeration) combines sheet metal and electrical work involving installation, wiring, service, and repair of environmental control systems and the fabrication and installation of ductwork on heating, ventilation, cooling, and refrigeration systems that control the temperature and air quality in buildings.

### Work Conditions

HVACR technicians work in residential homes, schools, hospitals, office buildings, or factories. Their worksites may be very hot or cold because the heating and cooling systems they must repair may not be working, and because some parts of these systems are located outdoors. Irregular hours and working in cramped spaces are common.

### How to Become a HVAC Technician

Most HVAC Technicians start with a post-secondary education program but the necessary skills can be obtained through on the job training.

- **Education**

- Because HVACR systems are increasingly complex, employers generally prefer applicants with postsecondary education or those who have completed an apprenticeship.
- Some states and localities require technicians to be licensed.

- **Important Qualities**

- **Troubleshooting Skills**  
The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- **Finger Dexterity**  
The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.
- **Near Vision**  
The ability to see details at close range (within a few feet of the observer).
- **Visualization**  
The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.
- **Manual Dexterity**  
The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
- **Arm-Hand Steadiness**  
The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
- **Deductive Reasoning**  
The ability to apply general rules to specific problems to produce answers that make sense.



Associated General Contractors of North Dakota  
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- **Extent Flexibility**  
The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.
- **Inductive Reasoning**  
The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
- **Information Ordering**  
The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).

## Wage Information:

The table below shows the estimated Employment Wage Statistics for individuals in North Dakota employed as HVAC Technicians in 2013.

Rate Type	Entry level	Mean	Experienced
Annual Wage	\$33,700	\$44,560	\$49,990
Hourly Wage	\$16.20	\$21.42	\$24.03

For more information [click here](#).



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