Heating, Ventilation, & Air Conditioning

The **Heating Ventilation & Airconditioning** program technical standards have been developed to inform students of the nonacademic essential functions of the program and profession. Examples are not all inclusive.

| **Standard** | **Essential Function** | **Examples** |
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| **Communication****Oral / Written** | * Skills sufficient to communicate information and ideas so others will understand
 | * Communicate with coworkers and customers
* Be able to clearly and effectively communicate with others, at moderate distances and without line of sight.
* Be able to understand orders, instructions and descriptions and be able to read and comprehend technical manuals, manufacturer’s specifications and instructions, and warning labels in English.
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| **Mobility / Motor Skills** | * Motor skills sufficient to move the hands and use hands to grasp or manipulate objects
* Ability to safely move around the jobsite, which includes crawling into tight spaces, confined spaces, climbing and working on a ladder and working at various heights
* Ability to work in varied spaces
* Be able to effectively use a computer with a manual keyboard, mouse, and viewing a monitor / screen
 | * Use hand tools and power tools
* Physical activities may include:
	+ Stooping
	+ Crawling
	+ Reaching
	+ Squatting
	+ Lifting
	+ Bending
	+ Balancing
	+ Climbing
* Work spaces may include extreme heights, crawlspaces, or confined spaces
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| **Physical Strength and Stamina** | * Ability to participate in an activity for long periods of time
* Ability sufficient to lift and carry at least 60 pounds
 | * Participate in project-related activity for up to six continuous hours
* Be able to reach, manipulate, and operate equipment necessary for laboratory work.
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| **Sensory*** **Sight**
* **Sound**
* **Taste**
* **Touch**
* **Smell**
 | * Visual skills sufficient to see details at close range
* Be able to distinguish between tones of various pitches and differentiate between the primary colors
* Visual skills to inspect or assess for safety
* Listening skills sufficient to communicate with others
 | * Have good peripheral vision and depth perception.
* Have sufficient visual capacity to read blueprints, sketches, schematic diagrams and other printed documents including but not limited to tape measures, architect and engineer scales, meters and testers.
* Hear others inside of an industrial shop or in the field by voice, loud speaker, phone, and/or two-way radio
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| **Environmental / Occupational Exposure** | * Possible exposure to extreme noise levels
* Possible exposure to extreme weather
* Possible exposure to dust, chemicals, and fumes
* Must not have a debilitating fear of insects, spiders, snakes or lizards.
 | * Work outdoors
* Work with construction materials and tools
* Work with various chemicals including but not limited to; acids, acid-like chemicals, solvents, glues, cleaners, oils and refrigerants.
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| **Field or Industry Professional Standards** | * Safely operate tools and equipment
* Wear safety equipment
* Must be able to wear a tool pouch for up to 10 hours per day.
 | * PPE includes but not limited to safety glasses, closed-toe shoes, hard-hats, safety harnesses, and fall protection gear.
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