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** |
| --- | --- | --- |
| **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. |
| **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 |
| **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. |
| **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 |
| **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. |
| **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. |