

The **Plumbing** 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
<p>Communication Oral / Written</p>	<ul style="list-style-type: none"> • Ability to understand verbal and written instructional approaches and apply this understanding to maintenance projects in a manner that produces quality outcomes and safe work practices. 	<ul style="list-style-type: none"> • 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.
<p>Mobility / Motor Skills</p>	<ul style="list-style-type: none"> • Possess sufficient physical strength, flexibility, and dexterity to safely handle electrical and mechanical parts. • Motor skills sufficient to move the hands and use hands to grasp or manipulate objects • Ability to safely move around the jobsite • Ability to work in varied spaces 	<ul style="list-style-type: none"> • Use hand tools and power tools • Operate necessary tools, equipment, and machinery. • Remove and replace failed components. • Physical activities may include: <ul style="list-style-type: none"> • Stooping • Crawling • Reaching • Squatting • Lifting • Bending • Balancing • Climbing and working on a ladder • Position and maneuver in confined spaces to do repairs. • Work at varying heights. • Lift and transport equipment and materials as necessary.

<p>Physical Strength and Stamina</p>	<ul style="list-style-type: none"> • Ability to participate in an activity for long periods of time • Ability to safely lift/carry a minimum of 50 lbs. 	<ul style="list-style-type: none"> • Carry supplies. • Installing/repairing various components in multiple positions. • Use sensory cues to conduct inspections and tests to determine causes of failures, and respond properly.
<p>Sensory</p> <ul style="list-style-type: none"> • Sight • Sound • Taste • Touch • Smell 	<ul style="list-style-type: none"> • Visual skills sufficient to see details at close range • Be able to distinguish between tones of various pitches and differentiate between the primary colors • Listening skills sufficient to communicate with others • Ability to use sensory (hearing, visual, and smell) skills to be able to detect danger from various equipment found in maintenance facilities. understand what is being communicated 	<ul style="list-style-type: none"> • Have sufficient visual capacity to interpret read-outs on meters, gauges, and other measuring devices. • Distinguish identifying colors of wires, knobs, and other objects. • Recognize and compare shapes and forms of objects. • 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. • Detect and respond to indicators of malfunctions.
<p>Environmental / Occupational Exposure</p>	<ul style="list-style-type: none"> • Ability to tolerate and adequately function in hot and cold work conditions • Possible exposure to extreme noise levels • Possible exposure to extreme weather 	<ul style="list-style-type: none"> • Work for 6 hours in indoor and outdoor areas without heating or air conditioning. • Work outdoors • Work with construction materials and tools • Work with various chemicals and toxins

	<ul style="list-style-type: none">• Possible exposure to dust, chemicals, and fumes• Must not have a debilitating fear of insects, spiders, snakes or lizards.	
Field or Industry Professional Standards	<ul style="list-style-type: none">• Safely operate tools and equipment• Wear safety equipment• Must be able to wear a tool pouch for up to 10 hours per day.	<ul style="list-style-type: none">• PPE includes but not limited to safety glasses, closed-toe shoes, hard-hats.