Welding Technology

The **Welding Technology** 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 |
| **Mobility / Motor Skills** | * Motor skills sufficient to move the hands and use hands to grasp or manipulate objects * Mobility sufficient to perform physical activities that require considerable use of arms and legs and moving the whole body * Ability to work in varied spaces | * Use hand tools * Perform tasks in multiple positions (flat, horizontal, vertical, and overhead) at floor level and at heights over six feet * Work in confined spaces * Physical activities may include:   + Stooping   + Reaching   + Squatting   + Lifting   + Bending |
| **Physical Strength and Stamina** | * Ability sufficient to lift and carry | * Lift steel plates, parts, fixtures, etc. |
| **Sensory**   * **Sight** * **Sound** * **Taste** * **Touch** * **Smell** | * Visual skills sufficient to see details at close range * Ability to take precise measurements * Ability to visualize two- and three-dimensional objects and spaces * Ability to distinguish colors, shades, and textures * Visual skills to inspect or assess for safety | * Understand and interpret information from books, handouts, diagrams, charts, and tables * Read a tape measure * View blueprints and sketches * Inspect an area or piece of equipment for potential failures or safety issues |
| **Environmental / Occupational Exposure** | * Possible exposure to extreme noise levels * Possible exposure to extreme weather * Possible exposure to dust, chemicals, and fumes * Ability to tolerate variations in lighting |  |
| **Field or Industry Professional Standards** | * Ability to wear safety equipment | * Wear safety glasses |