Electromechanical Instrumentation Technology

The **Electromechanical Instrumentation 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 * Ability to perform basic computer functions * Mobility sufficient to perform physical activities that require considerable use of arms and legs and moving the whole body * Ability to safely operate in and around electricity | * Visually inspect, move, and control a robot * Work with electrical wiring * Enter data into a computer, open, save, and close files and programs * Physical activities may include:   + Stooping   + Crawling   + Reaching   + Squatting   + Lifting   + Bending * Use a meter to test, verify, or troubleshoot an energized circuit |
| **Physical Strength and Stamina** | * Ability to participate in an activity for long periods of time | * Work on a project for up to six continuous hours |
| **Sensory**   * **Sight** * **Sound** * **Taste** * **Touch** * **Smell** | * Visual skills sufficient to see details at close range * Ability to distinguish colors, shades, and textures * Visual skills to inspect or assess for safety * Listening skills sufficient to communicate with others | * View blueprints, sketches, and schematic drawings * Work with wires of different colors * Inspect an area or piece of equipment for potential failures or safety issues * 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 dust, chemicals, and fumes |  |
| **Field or Industry Professional Standards** | * Safely operate tools and equipment |  |