

# Davidson-Davie Community College

## Electronics Engineering Technical Standards

### Criteria: Critical thinking and/problem solving

#### Standard:

- A) Ability to measure, calculate, reason, analyze, integrate and synthesize information.
  - 1) Example: Able to read and understand engineering/technical drawings and schematics.
  - 2) Example: Apply engineering mathematical skills to solve problems.
  - 3) Example: Demonstrate knowledge and applications of electronic test equipment.
  - 4) Example: Able to use the scientific method during problems solving.

### Criteria: Communication

#### Standard:

- A) Appropriate interpersonal interaction with Co-workers, Superiors, Customers, facility owners, and other technicians.
  - 1) Example: Able to communicate the knowledge and understanding of engineering/technical drawings and schematics.
- B) Effective communication with others, both verbally and in writing.
  - 1) Example: Communicate with oral and written documents technical information of electrical/electronic designs and applications.

### Criteria: Motor Skills

#### Standard:

- A) Sufficient motor function to operate electronic equipment in a safe manner.
  - 1) Example: Demonstrate the ability to perform bench related work activities such as troubleshooting and repair of electronic equipment.
  - 2) Example: Manual dexterity sufficient to gain access to control systems on a variety of electrical/electronic equipment.
  - 3) Example: Maintain proper safety precautions while working on electrical/electronic equipment with potentially lethal voltages and mechanical hazards.
- B) Physical conditioning to a level that allows full day's activity in a manufacturing environment.

### Criteria: Professional Conduct

#### Standard:

- A) Function effectively and efficiently during demanding seasonal workload periods.
  - 1) Example: Maintain an understanding and effective relationships with colleagues, customers and technicians found in a design/manufacturing environment.
  - 2) Example: Work effectively within a team environment.

- B) Incorporate professional standards of practice into all activities.
  - 3) Example: Maintain professionalism through all personal contacts and communication.
- C) Demonstrate professional integrity and accountability.
  - 1) Example: Respond appropriately to constructive feedback provided by colleagues, management and customers.
- D) Present self in a professional manner.
  - 1) Example: Wear appropriate clothing that is consistent with professional responsibilities and contacts.

**Criteria: Sensory**

**Standard:**

- A) Hearing sufficient to operate equipment in a safe/professional manner.
  - 1) Example: Ability to hear alarms in the operation of some electrical/electronic equipment.
- B) Vision sufficient to operate equipment in a safe/professional manner.
  - 1) Example: Ability to see alarms in the operation of some electrical/electronic equipment.

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