

Davidson-Davie Community College

Applied Engineering Technology Technical Standards

Criteria: Critical thinking and/problem solving

Standard:

- A) Ability to integrate cognitive skills to accurately analyze information.
 - 1) Example: Use self-evaluation of performance to determine new approaches for personal improvement.
- B) Demonstrate personal time management to complete projects by given deadlines.
 - 1) Example: Establish and manage time requirements for project completion.
- C) Demonstrate ability to execute work requirements in accordance with written instructions.
 - 1) Example: Establish and manage time requirements for project completion.

Criteria: Communication

Standard:

- A) Discuss directions and methods required to complete a specific engineering task.
 - 1) Example: Use a variety of strategies to convey the necessary engineering information required to complete a specific task or project.
- B) Demonstrate ability to follow verbal and written directions.
 - 1) Example: Use oral expression, reading, and writing comprehension to verify the information was received.
- C) Demonstrate use of multiple approaches to convey information.
 - 1) Example: Discuss available alternatives and methods that may be used to accomplish the objective.

Criteria: Motor Skills

Standard:

- A) Demonstrate physical abilities including: standing, sitting, walking, stooping, crawling, reaching, squatting, lifting, and bending.
 - 1) Example: Demonstrate ability to continuously improve and further develop manual motor skills.
 - 2) Example: Demonstrate ability to develop and refine manual dexterity motor skills to implement various engineering techniques.
- B) Demonstrate ability to keep balance and equilibrium when in various physical positions.
 - 1) Example: Demonstrate ability to perform repetitive physical movements and motor skills intermittently and/or continuously for extended periods of time.

Criteria: Professional Conduct**Standard:**

- A) Demonstrate integrity and accountability during field work and academic setting.
 - 1) Example: Respond appropriately to constructive feedback provided by fellow students, faculty, staff, and customers.
- B) Utilize computers correctly, effectively and professionally to acquire information and to communicate with others.
 - 1) Example: Work effectively with a team in an academic or live project setting.

Criteria: Sensory**Standard:**

- A) Demonstrate hearing ability sufficient to communicate with peers in close or far proximity.
 - 1) Example: Communicate effectively with other engineers or coworkers inside of an industrial shop or in the field by voice, loud speaker, phone, and/or two-way radio.
- B) Demonstrate visual awareness of potentially hazardous industrial equipment.
 - 1) Example: Visually inspect or assess an area or piece of equipment for potential failures or safety issues.

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