

Davidson County 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.

Davidson County Community College does not discriminate nor does it approve of discrimination against students or applicants on the basis of race, color, religion, sex, national origin, age, disability, pregnancy, political affiliation, veteran status, sexual orientation, gender identity, or any other characteristic that is protected by law.