

Southeastern Community College

Technical Standards for: Mechatronics Engineering Technology

The following are standards which a student in the Mechatronics Engineering Technology major will be required to perform in order to successfully complete the program. If an accepted student believes that he/she cannot meet one or more of the standards with or without reasonable accommodations, the student must consult the Disability Services Counselor at 910-788-6327, disabilityservices@sccnc.edu. Southeastern Community College will not discriminate against qualified individuals with disabilities and will provide reasonable accommodations.

Requirements:

Critical Thinking

- Ability to adapt to rapidly changing environments and maintain functionality and flexibility with changing circumstances.
- Ability to use critical thinking and analysis in a timely fashion to ensure prompt and safe delivery of systems.

Interpersonal Skills

- Possess the ability to interact with other students, faculty, and staff.
- Possess the ability to function and contribute as part of a team.

Cognitive Skills

- Must be able to measure, calculate, reason, analyze, integrate, and synthesize complex information and demonstrate acquired knowledge. Examples of tasks which require cognitive ability include, but are not limited to:
 - Problem solving in a dynamic, fast-paced environment.
 - Ability to engage in decision making, properly weighing pros/ cons.
 - Ability to obtain and interpret assessment of equipment information from a variety of media including written reports, verbal reports, and electronic orders in a timely fashion.

Communication Skills

- Must have proficiency of the English language in order to communicate effectively with team members. This includes verbal, written, and non-verbal communications.

Physical Demands/Motor Skills

- Must have sufficient motor function and coordination of gross and fine motor skills necessary to execute movements essential to providing effective and safe adjustments to equipment.
- Must be able to engage in periods of prolonged standing or sitting while in the classrooms and labs.
- Must be able to lift up to 50 pounds.

Auditory Ability

- Must be able to hear and acquire assessment information to assist in providing safe operation of equipment maintenance. Examples of tasks utilizing auditory processing include, but are not limited to:
 - Hearing coworkers calling for assistance.
 - Hearing verbal commands from other colleagues and or technicians.
 - Hearing alarms from equipment.
 - Hearing conversations via telephone.

Visual Skills

- Must be able to assess information visually to assist in providing safe operation of equipment maintenance. Examples of tasks utilizing visual processing include but are not limited to:
 - Ability to recognize electrical wiring colors.
 - Ability to recognize readings on controllers and gauges.
 - Must be able to wear safety glasses and other PPE during labs.

If this document is not accessible, contact Disability Services at 910.788.6327, disabilityservices@sccnc.edu, or In A Building, Room 124.

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