

# Beaufort County Community College

## Boat Manufacturing & Service Technical Standards

### Criterion: Cognitive Standard:

- A) Ability to measure, calculate, reason, analyze, integrate and synthesize information.
  - 1) Establish and manage time requirements for project completion.
  - 2) Demonstrate judgment and decision making as required to organize various tasks to complete assignments and projects.
  - 3) Determine solutions and procedures to guarantee conformance with required tolerances and specifications.
  - 4) Use self-evaluation of performance to determine new approaches for personal improvement.
  - 5) Exhibit the ability to analyze documentation like blueprints, technical documents, and specifications; then use this knowledge to build, fabricate, and rig projects.
  - 6) Determine precise measurements using various tools.

### Criterion: Communication Standard:

- A) Appropriate interpersonal interaction with other students, faculty, and other professionals.
  - 1) Use a variety of strategies to convey the necessary information required to complete a specific task or project.
- B) Effective communication with others, both verbally and in writing.
  - 1) Discuss available alternatives and methods that may be used to accomplish the objective.
  - 2) Use oral expression, reading, and writing comprehension to verify the information was received.
  - 3) Use of information on blueprints, projects, technical documents, and procedure specifications.

### Criterion: Motor Skills Standard:

- A) Demonstrate physical abilities including: standing, sitting, walking, stooping, crawling, reaching, squatting, lifting, **climbing, and** bending.
  - 1) Demonstrate ability to perform boat building and rigging operations in an industrial laboratory while wearing all required personal protective equipment.
  - 2) Pass required medical evaluation and fit test for respirator use.
  - 3) Demonstrate ability to perform various tasks while the body is in an awkward and/or uncomfortable position.
  - 4) Demonstrate the ability to lift various sized/shaped objects of 50 pounds.
- B) Exhibit full range of motion of all extremities.
  - 1) Participate completely in classroom activities.

- 2) Demonstrate ability to perform repetitive physical movements and motor skills intermittently and/or continuously for extended periods of time.
- C) Perform controlled accurate movements, motor skills, and techniques with both hands and both arms independently and/or simultaneously.
  - 1) Demonstrate ability to continuously improve and further develop manual motor skills and fabrication techniques.
  - 2) Demonstrate ability to develop and refine manual dexterity motor skills to implement various fabrication techniques.

**Criterion: Professional Conduct Standard:**

- A) Function effectively and efficiently during demanding workload periods.
  - 1) Maintain an understanding and effective relationships with colleagues, faculty, staff and other professionals.
- B) Incorporate professional standards of practice into all activities.
  - 1) Work effectively with a team in an academic or live project setting.
  - 2) Refrain from using improper grammar, profane or inappropriate communications.
- C) Demonstrate integrity and accountability in shop and academic settings.
  - 1) Complete all assignments in a timely manner.
  - 2) Respond appropriately to constructive feedback.
  - 3) Take all tests and final examinations as scheduled.
- D) Present self in a professional manner in an academic setting.
  - 1) Wear appropriate clothing that is not distracting or offensive when in the learning environment or that may cause an unsafe environment.

**Criterion: Sensory Standard:**

- A) Hearing sufficient to:
  - 1) Communicate with peers in close or far proximity.
  - 2) Communicate effectively with other coworkers inside of an industrial shop.
  - 3) Hear and detect sounds that could indicate safety hazards and potentially dangerous situations.
- B) Visual skills:
  - 1) Vision sufficient for maintaining safety and quality work.
  - 2) Visually observe project work and rigging spatial distance.
  - 3) Ability to see fine detail in various marine finishes.
- C) Olfactory senses:
  - 1) Detect hazardous and/or objectionable fumes.

This document is intended to serve as a guide regarding the physical, emotional, intellectual and psychosocial expectations placed on a student. This document cannot include every conceivable action, task, ability or behavior that may be expected of a student. Meeting these technical standards does not guarantee a student's eligibility for any licensure, certification exam, or successful completion of a degree program.