Technical Standards for Advanced Manufacturing Boot Camp Program

The goal of the Advanced Manufacturing Boot Camp Program is to prepare students to safely and efficiently operate Computer Numerically Control Manual Machines, hand tools, power tools, and cutting tools in a fast paced and rapidly changing manufacturing environment. To achieve this goal, certain functions (Technical Standards) are essential for the delivery of safe, effective operation of machines and tools during the hands-on portion of the boot camp program and potential apprenticeship opportunities after completion of the 6–9-week program. Students are expected to request reasonable accommodations prior to beginning the Shop Basics portion of the Boot Camp Program.

In accordance with the policies underlying Section 504 of the Rehabilitation Act of 1973, the American with Disabilities Act (ADA) of 1990, the ADA Amended Acts (ADAA) of 2008 and County College of Morris policy, no qualified individual with a disability shall, solely on the basis of that disability, be excluded from participation to County College of Morris programs or activities. Upon admission, a candidate who discloses a disability may be asked to provide documentation of that disability. The Department of Workforce Development at the County College of Morris will provide reasonable accommodations to a qualified individual with a disability through support of the Office of Accessibility Services. County College of Morris is not required to provide academic adjustments that would lower academic standards, fundamentally alter the nature of the program, or impose an undue burden on the college. Students can provide appropriate documentation to the Office of Accessibility Services directly to qualify for reasonable accommodations. Students should contact the Office of Accessibility Services at 973-328-5284 or aso@ccm.edu. Students should not submit documentation to any other program administrator for review.

All students enrolled in the Advanced Manufacturing Boot Camp Program must have:

1. Regular access to transportation. As part of their program, students will regularly travel to County College of Morris for class and hands-on instruction during the program. For this reason, it is essential that a student have regular, on-demand access to transportation to complete the in-person instruction on our campus
2. Regular internet access. As part of the program, students will regularly need to access the internet for remote live learning instruction for course lectures and homework for the entire Boot Camp program. For this reason, it is essential for the student to have internet and Wi-Fi access to complete the entire program

Sensory and Observational:

- Possible vision related observation including:
    - Visualizing the cutting, drilling, and handling parts within a Computer Numerically Controlled or Manual Machine
    - Reading written and printed blueprints, measurement instruments, 2D and 3D drawings, and featured controlled frames
    - Observing demonstration of machines and software's by instructor during classroom and hands-on instruction
    - Analyzing small cuts, holes, and marks on aluminum and steel parts

Motor Ability:

- Ability to demonstrate fine and gross motor skills and coordination for the purposes of safety
- Ability to operate industrial machinery, power tools, hand tools, and cutting tools safely and properly in the machine shop.
- Ability to properly use first aid kits and fire extinguishers
- Possess the physical and mental stamina to meet the demands associated with extended periods of standing, moving, and physical exertion required for operation of tools and machines

Cognitive Ability: All students must be able to perform the following but no limited to:

- Synthesize information for the purpose of problem solving and decision making
- Ability to multitasks in a stimulating and fast-paced environment
- Concentrate for extended periods of time within a high-volume auditory environment
- Interpret blueprint readings and measurements on physical paper or computer screens

Behavioral:

- Exercise good decision-making and sound judgment to demonstrate a consistently professional demeanor
- Ability to adapt to changing environments and display flexibility with uncertainties in the manufacturing environment