Davidson County Community College
Computer Integrated Machining: Technical Standard

Criteria	Standard	Example
Critical thinking/problem solving	Ability to measure, calculate, reason, analyze, integrate and synthesize information	Evaluate drawings to perform proper machining tasks. Apply basic mathematic skills to solve problems. Demonstrate knowledge in machine related computations.
Communication	Appropriate interpersonal interaction with other students, faculty, staff, customers, facility owners, and other technicians. Effective communication with others, written and verbally.	Demonstrate knowledge and understanding of engineering drawings. Ability to translate geometric tolerances and symbols as they relate to quality and inspection. Communicate with oral and written documents in the machining processes as they relate to part drawings. Communicate with team to troubleshoot machine and programing issues.
Motor Skills	Sufficient motor function to set-up and run manual and CNC machines. Sufficient physical endurance to work on cement floors for extended periods of time with minimal travel in the work area.	Perform basic competencies related to machining of various parts on manual and CNC machines. Participate completely in lab activities. Demonstrate the ability to perform bench related work activities.
Professional Conduct	Function effectively and efficiently during demanding seasonal workload periods. Incorporate professional standards of practice into all activities.	Maintain an understanding and effective relationships with customers, colleagues, faculty, staff and other professionals. Work effectively with a team in an academic or live project setting. Refrain from using improper grammar, profane or inappropriate communications. Respond appropriately to constructive feedback provided by fellow students, faculty,

	Demonstrate integrity and accountability during field work and academic setting. Present self in a professional manner during field projects and academic settings. Utilize computers correctly, effectively and professionally to acquire information and to communicate with others.	staff, and customers. Wear appropriate clothing that is not distracting or offensive when in the learning environment or that may cause an unsafe environment. Utilize the internet to collect current information from appropriate resources to use during programming and set-up of CNC machines. Complete all assignments in a timely manner. Be on time to class and have good attendance.
Sensory	Hearing sufficient to assess equipment needs. Vision sufficient for assessment necessary to Knowledge of industrial safety procedures.	Hear and recognize unusual equipment noise and take appropriate action to resolve any safety hazard. Accurately interpret non-verbal communications when working in a manufacturing environment. Read and understand Material Safety Data Sheets (MSDS) information related to clean-up and reporting chemical spills and personal safety concerns.