

TECHNICAL STANDARDS

Mechanical Design Technology

In this program grouping, students should be able to meet specific technical standards. These standards are the essential skills and abilities needed to be successful in a program, with or without reasonable accommodation. All Technical Standards documents are available for review on the Mid-State Technical College [website](#).

It is important to review and understand these technical standards before applying to the program.

Reasonable accommodations for persons with disabilities will be made to ensure access to academic programs, activities, services, and employment in accordance with Section 504 and 508 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990, as amended. If accommodation is needed, contact the Accessibility Services Coordinator at 888.575.6782, TTY 711, at least two weeks in advance of needed assistance. Services available are documented on the Mid-State Technical College [website](#).

For more information, please see Mid-State Technical College's Equal Opportunity/Non-Discrimination [Policy](#).

TECHNICAL STANDARD	DEFINITION OF TECHNICAL STANDARD	EXAMPLES OF TECHNICAL STANDARD
Auditory Skills	<ul style="list-style-type: none"> Ability to tolerate a wide range of noise which can potentially be loud. Ability to effectively hear sounds that indicate potential issues and problems in the machining environment. 	<ul style="list-style-type: none"> Detect audible sounds for equipment function and warning.
Behavioral Skills	<ul style="list-style-type: none"> Ability to behave in a safe, professional, and appropriate manner in both dress and actions, as required by the program. Ability to maintain a work pace that is appropriate and actively moving toward quality project completion. 	<ul style="list-style-type: none"> Wear personal protective equipment for safe practices (gloves, masks, eyewear). Tolerate heat and humidity. Adhere to safety/emergency protocols. Recognize and respond to hazardous conditions. Demonstrate impulse control and professional level of maturity. Follow emergency procedures as needed. Ability to problem-solve complex situations. Ability to accept constructive feedback. Prepared to work on time.
Communication Skills	<ul style="list-style-type: none"> Ability to follow both written and verbal instructions. Ability to have appropriate interpersonal interactions with other students, faculty, staff, facility owners, customers, and other technicians. Ability to have effective written and verbal communication with others. 	<ul style="list-style-type: none"> Ability to convey information in a clear, professional and timely manner. Listen and respond to others in an accepting and respectful manner.

Critical Thinking Skills	<ul style="list-style-type: none"> • Ability to measure, calculate, reason, analyze, synthesize, and integrate information. 	<ul style="list-style-type: none"> • Apply knowledge and skills learned in the classroom to a work setting. • Comprehend and follow instructions. • Follow a process from start to finish, sequence information. • Adapt decisions based on new information. • Maintain focus in an environment with distractions.
Interpersonal Skills	<ul style="list-style-type: none"> • Ability to work with others in a variety of settings and situations. • Ability to maintain hygiene and dress requirements appropriate for a machining environment. 	<ul style="list-style-type: none"> • Collaborate with others. • Establish a professional working relationship with coworkers, peers, instructors, and clients.
Mobility and Motor Skills	<ul style="list-style-type: none"> • Possess sufficient motor function to set up and run manual and CNC machining equipment. • Ability to stand on hard or concrete floors for prolonged periods of time. • Ability to work with hands. • Ability to complete duties requiring stooping and bending. 	<ul style="list-style-type: none"> • Move in confined spaces including walking, squatting, and lifting while maintaining balance. • Maintain balance in standing position. • Move body from one side to the other. • Reach below the waist and to the front or the side of the body to the level of the top of head (i.e., adjust overhead lights, plug electrical appliance into wall outlet). • Push, pull, stabilize, and freely move arms to allow movement of a part, tool, object from one place to another. • Bend, stretch, twist, reach with your body above shoulders, below waist, and in front.
Tactile Skills	<ul style="list-style-type: none"> • Ability to effectively use a computer, keyboard, and mouse. • Ability to physically inspect parts for issues and quality. • Ability to perform dexterous manipulative work. • Ability to feel by touch with finger dexterity. 	<ul style="list-style-type: none"> • Grasp, twist, squeeze, pinch, and manipulate equipment.
Visual Skills	<ul style="list-style-type: none"> • Possess sufficient visual acuity to distinguish details from a distance and at a close proximity while wearing appropriate eye protection. • Possess sufficient enough vision to access printed and electronic documents as well as reading gauges. 	<ul style="list-style-type: none"> • Ability to visually detect equipment displays. • Ability to visually detect environmental hazards. • Detect objects, symbols and numbers both near and far. • Detect and identify different colors.

Mid-State Technical College does not discriminate on the basis of race, color, national origin, religion, gender, disability, age, sexual orientation, or other applicable legislated categories, in its services, employment programs, and/or its educational programs and activities, including but not limited to admissions, treatment and access. Inquiries regarding this non-discrimination policy, Title VI, Title IX, and Section 504 should be directed to the Equal Opportunity Officer, 500 - 32nd Street North, Wisconsin Rapids, WI 54494, 715.422.5325 • AAEO@mstc.edu. Limited English proficiency shall not be a barrier to admission or participation in any college program or service. Mid-State complies with the American with Disabilities Act and provides reasonable accommodations to assist persons with disabilities upon request.