

# TECHNICAL STANDARDS

## Metal Fabrication

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"> <li>Ability to use sensory cues to maintain standards of quality.</li> <li>Possess awareness of surroundings through use of senses.</li> </ul>	<ul style="list-style-type: none"> <li>Detect audible sounds for equipment function and warning.</li> </ul>
Behavioral Skills	<ul style="list-style-type: none"> <li>Possess the emotional well-being required for use of their intellectual abilities.</li> <li>Ability to exercise sound judgment.</li> <li>Ability to complete all responsibilities promptly in the classroom and for lab projects.</li> <li>Ability to learn and apply workplace responsibilities.</li> </ul>	<ul style="list-style-type: none"> <li>Wear personal protective equipment for safe practices (gloves, masks, eyewear).</li> <li>Tolerate heat and humidity.</li> <li>Adhere to safety/emergency protocols.</li> <li>Recognize and respond to hazardous conditions.</li> <li>Demonstrate impulse control and professional level of maturity.</li> <li>Follow emergency procedures as needed.</li> <li>Ability to accept constructive feedback.</li> <li>Prepared to work on time.</li> </ul>
Communication Skills	<ul style="list-style-type: none"> <li>Possess communication skills sufficient to communicate in class and on shop floor using industry standard terms and safety practices pertaining to fabrication.</li> </ul>	<ul style="list-style-type: none"> <li>Ability to convey information in a clear, professional and timely manner.</li> <li>Listen and respond to others in an accepting and respectful manner.</li> </ul>

Critical Thinking Skills	<ul style="list-style-type: none"> <li>• Ability to use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.</li> <li>• Ability to recognize when there is problem or possible problem.</li> </ul>	<ul style="list-style-type: none"> <li>• Apply knowledge and skills learned in the classroom to a work setting.</li> <li>• Comprehend and follow instructions.</li> <li>• Follow a process from start to finish, sequence information.</li> <li>• Adapt decisions based on new information.</li> <li>• Maintain focus in an environment with distractions.</li> <li>• Ability to problem-solve complex situations.</li> </ul>
Interpersonal Skills	<ul style="list-style-type: none"> <li>• Possess interpersonal skills sufficient for successful interactions with customers, colleagues, supervisors, and individuals from a variety of populations.</li> </ul>	<ul style="list-style-type: none"> <li>• Collaborate with others.</li> <li>• Establish a professional working relationship with coworkers, peers, instructors, and clients.</li> </ul>
Mobility and Motor Skills	<ul style="list-style-type: none"> <li>• Possess physical strength and flexibility to safely perform welding and metal forming techniques.</li> <li>• Ability to stand on hard or concrete floors for prolonged periods of time.</li> </ul>	<ul style="list-style-type: none"> <li>• Move in confined spaces.</li> <li>• Maintain balance in standing position.</li> <li>• Move body from one side to the other.</li> <li>• 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).</li> <li>• Push, pull, stabilize, and freely move arms to allow movement of a part, tool, object from one place to another.</li> <li>• Bend, stretch, twist, reach with your body above shoulders, below waist, and in front.</li> <li>• Move in confined spaces including walking, squatting, and lifting while maintaining balance.</li> </ul>
Tactile Skills	<ul style="list-style-type: none"> <li>• Possess dexterity to be able to properly perform weldment in accordance with a stated welding code or welding print.</li> </ul>	<ul style="list-style-type: none"> <li>• Grasp, twist, squeeze, pinch, and manipulate equipment.</li> </ul>
Visual Skills	<ul style="list-style-type: none"> <li>• Ability to be attentive in the classroom, observe demonstrations, and participate in lab classes.</li> <li>• Possess visual perception.</li> <li>• Ability to use sensory cues to maintain standards of quality.</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to visually detect equipment displays.</li> <li>• Ability to visually detect environmental hazards.</li> <li>• Detect objects, symbols and numbers both near and far.</li> <li>• Detect and identify different colors.</li> </ul>

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](mailto: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.