

# TECHNICAL STANDARDS

Gas Metal Arc Welding (GMAW) | Stainless Steel Welding | Welding

In this program grouping, students should be able to meet specific technical standards, which are the essential skills and abilities needed to be successful in a program, with or without reasonable accommodation. It is important to review and understand these standards before applying to the program. All Technical Standards documents are available for review on the Mid-State Technical College website. (Go to <https://www.mstc.edu/programs> and select the program.)

**This document should be reviewed prior to 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 accommodations are needed, contact the Disability Services coordinator at 888.575.6782, TTY 711, at least two weeks in advance of needed assistance. Services available are documented at <https://www.mstc.edu/student-services/disability-services>.

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

STANDARD	DEFINITION OF STANDARD	EXAMPLE(S) OF TECHNICAL STANDARD
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>
Mobility/Motor Skills	<ul style="list-style-type: none"><li>• Possess physical strength and flexibility to safely perform welding techniques.</li></ul>	<ul style="list-style-type: none"><li>• Grasp, twist, squeeze, pinch, and manipulate equipment.</li><li>• Move in confined spaces; maintain balance in standing position.</li><li>• Move body from one side to the other.</li></ul>

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		<ul style="list-style-type: none"> <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.</li> </ul>	<ul style="list-style-type: none"> <li>• Dexterity to perform welds in all positions (flat, horizontal, vertical, and overhead).</li> </ul>
Auditory Skills	<ul style="list-style-type: none"> <li>• Ability to use auditory cues to maintain standards of quality welding.</li> <li>• Ability to use auditory cues to recognize when there is a problem or possible problem.</li> <li>• Possess awareness of surroundings through use of auditory cues.</li> </ul>	<ul style="list-style-type: none"> <li>• Detect audible sounds for equipment function and warning.</li> <li>• Tolerate constant, loud noises.</li> </ul>
Visual Skills	<ul style="list-style-type: none"> <li>• Possess visual perception.</li> <li>• Ability to use visual cues to maintain standards of quality welding.</li> <li>• Ability to use visual cues to recognize when there is a problem or possible problem.</li> <li>• Possess awareness of surroundings through use of visual cues.</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>
Communication Skills	<ul style="list-style-type: none"> <li>• Ability to sufficiently communicate in class and on the welding floor using appropriate terminology.</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to convey information in a clear, professional and timely manner.</li> </ul>

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		<ul style="list-style-type: none"><li>• Listen and respond to others in an accepting and respectful manner.</li></ul>
Interpersonal Skills	<ul style="list-style-type: none"><li>• Ability to interact with customers, colleagues, supervisors, and individuals from a variety of backgrounds.</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>
Behavioral Skills	<ul style="list-style-type: none"><li>• Ability use sound judgement to complete projects and tasks in an appropriate time frame.</li><li>• Ability to learn and apply workplace responsibilities.</li><li>• Ability to be attentive in the classroom, observe demonstrations, and participate in lab classes.</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>

Mid-State does not discriminate on the basis of race, color, national origin, sex, disability, or age in its program, activity, or employment. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Vice President – Human Resources; 500 32nd Street North, Wisconsin Rapids, WI 54494; 715.422.5325 • AAEO@mstc.edu.