TECHNICAL STANDARDS

Automation & Instrumentation Technology

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	Ability to measure, calculate, reason, analyze, integrate, and synthesize information.	 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. Ability to problem-solve complex situations. Troubleshoot a fault in an electrical control system. Complete portions of complex PLC programs.
Mobility/Motor Skills	 Possess sufficient motor functions necessary to operate machining and manufacturing equipment in a safe manner. Ability to tolerate prolonged periods of standing/ walking. 	 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.



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		 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. Engaging depressed pushbuttons, large power switch levers. 	
Tactile Skills	Ability to effectively use a computer through the use of a manual keyboard, mouse, and viewing a monitor/ screen to accomplish tasks requiring email and web browsers.	 Program a PLC. Grasp, twist, squeeze, pinch, and manipulate equipment. 	
Auditory Skills	 Ability to distinguish various sounds, tones, and pitches emitted by machining and manufacturing equipment. Ability to tolerate extended exposure to equipment noise. 	 Detect audible sounds for equipment function and warning. Troubleshooting a motor (hearing differences in load on a motor). 	
Visual Skills	 Possess sufficient peripheral vision and depth perception. Ability to see and differentiate between an array of colors. 	 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. Program control screens for user input. 	
Communication Skills	Ability to effectively and clearly communicate with others, accurately gather, disseminate, and clarify specific information.	Ability to convey information in a clear, professional and timely manner.	



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		 Listen and respond to others in an accepting and respectful manner. Write work order reports.
Interpersonal Skills	Ability to work within a team.	 Collaborate with others. Establish a professional working relationship with coworkers, peers, instructors, and clients.
Behavioral Skills	Ability to apply knowledge, skills and experience to provide a safe work environment.	 Analyze equipment in the field. 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 accept constructive feedback. Prepared to work on time.

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.

