

TECHNICAL STANDARDS

Civil Drafting | Civil Engineering-Highway Technician

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">• Ability to measure, calculate, reason, analyze, synthesize, and integrate information and solve problems.• Ability to research technical information.	<ul style="list-style-type: none">• Mathematical competency sufficient to learn and use algebra and trigonometry.• Interpret charts & graphs.
Mobility/Motor Skills	<ul style="list-style-type: none">• Ability to sit or stand for prolonged periods of time.• Ability to perform repetitive physical tasks.• Ability to perform dexterous manipulative work for up to several hours.• Ability to complete duties requiring stooping, bending, and climbing.	<ul style="list-style-type: none">• Lifting and carrying surveying equipment and material samples in laboratory activities.• Using surveying equipment.
Tactile Skills	<ul style="list-style-type: none">• Ability to manipulate, place small components, and use appropriate tools.• Ability to operate a computer, mouse, and utilize related software.• Ability to feel by touch with finger dexterity.	<ul style="list-style-type: none">• Use computer, mouse, and handheld data collector through keyboards and touch screens.• Use special equipment for material testing and surveying measurements.
Auditory Skills	<ul style="list-style-type: none">• Ability to hear and comprehend instructions, manufacturer videos, and group/class members.• 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 construction environment.	<ul style="list-style-type: none">• Hear and respond to equipment sounds to assure safe operation.

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Visual Skills	<ul style="list-style-type: none">• Ability to distinguish between different colors.• Ability to read meters and gauges.• Possess sufficient vision to read books, diagrams, and manuals that do not come with online texts.	<ul style="list-style-type: none">• Distinguish between colors and shades on computer screen and printed documents.
Communication Skills	<ul style="list-style-type: none">• Ability to read and write sufficiently to follow manuals and directions in technical work environments.• Ability to communicate verbally (hear/lip-read and speak), follow directions, explain a scenario or setup, and communicate questions.	<ul style="list-style-type: none">• Write down data and information legibly and in an organized manner and convey it in conversation.
Interpersonal Skills	<ul style="list-style-type: none">• Ability to work with others in environmental extremes (e.g., temperature, stress, etc.).• Ability to have appropriate interpersonal interaction with other students, faculty, staff, facility owners, customers, and other technicians.	<ul style="list-style-type: none">• Maintain professionalism in person and in writing or email correspondence.
Behavioral Skills	<ul style="list-style-type: none">• Ability to behave in a professional, safe, and appropriate manner in both dress and action, as required by the program.• Possess impulse control to not take risks to endanger equipment or personnel.• Ability to follow all rules and regulations.• Ability to maintain hygiene and dress requirements appropriate for an industrial and technical environment.	<ul style="list-style-type: none">• Uses appropriate PPE for situation, including laboratory and active construction sites.

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.