

Technical Standards: Automotive Systems Technology

All Students in this program are expected to meet certain essential functions/technical standards which are essential for successful completion of all phases of the program and which reflect industry requirements and standards. To verify the students' ability to perform these essential functions, students may be required to demonstrate the following technical standards:

Standard	Definition of Standard	Example(s) of Technical Standard
CRITICAL THINKING SKILLS	<ul style="list-style-type: none"> Ability to think using analysis, evaluation, problem solving, judgment, and the creative process 	<ul style="list-style-type: none"> Use of judgment and problem-solving in order to create repair plan. Ability to apply general automotive knowledge to various situations.
MOBILITY/MOTOR SKILLS	<ul style="list-style-type: none"> Ability to lift objects weighing up to 50 pounds Ability to stand or sit for prolonged periods of time Ability to perform repetitive physical actions Ability to work with hands, being able to feel by touch, finger dexterity 	<ul style="list-style-type: none"> Operating lifts and jacks, use of common hand tools such as ratchets, wrenches, pneumatic and elective powered hand tools. Bending, squatting, reaching. Lifting automotive mechanical/body parts and wheels. Removing and installing mechanical fasteners for bolt on body parts. Weight bearing ability sufficient enough to lift and carry weight up to 50 pounds and work overhead.
TECHNOLOGY SKILLS	<ul style="list-style-type: none"> Ability to look up online technical information Ability to operate basic computerized word processing 	<ul style="list-style-type: none"> Log in and out of Learning Management System. Search vehicle service information such as Snap-on, ShopKey Pro, AllData, and manufacturer-specific information to develop a step-by-step repair procedure.
TACTILE SKILLS	<ul style="list-style-type: none"> Ability to understand information perceived by touch 	<ul style="list-style-type: none"> Identifying temperature of vehicle components to perform a safe repair.
AUDITORY SKILLS	<ul style="list-style-type: none"> Capable of sufficient hearing 	<ul style="list-style-type: none"> Troubleshooting problems. Able to hear fire alarms, and carbon dioxide detectors. Able to hear equipment notifications and necessary sounds during operation of equipment.
VISION SKILLS	<ul style="list-style-type: none"> Ability to access printed and electronic documents as well as readings on gauges Ability to operate a motor vehicle safely Ability to see shades of color 	<ul style="list-style-type: none"> Able to see product technical data sheets, service documents, as well as air pressure gauge. Hold a valid driver's license to move vehicles in and out of the shop. Able to see color change while mixing products. Able to identify colors of wires. Able to comprehend wiring schematics and identify connector/pin locations and wire size.
COMMUNICATION SKILLS	<ul style="list-style-type: none"> Ability to communicate orally with others Ability to communicate effectively in writing Ability to comprehend and understand spoken and written language 	<ul style="list-style-type: none"> Able to follow technical instructions from instructor/employer/online services sources. Able to explain vehicle needs to customer. Use correct verbiage when ordering parts/materials.
INTERPERSONAL SKILLS	<ul style="list-style-type: none"> Ability to work with others in a variety of settings and situations Ability to listen to others and determine their wants and needs 	<ul style="list-style-type: none"> Interact appropriately with individuals from a variety of social, emotional, cultural, and intellectual backgrounds. Accept advice from peers, instructors, and employers. Ability to employ basic conflict management skills.
ENVIRONMENTAL TOLERANCE	<ul style="list-style-type: none"> Ability to work in shifts, schedules, and conditions that are unique to the industry Ability to get hands and clothing dirty 	<ul style="list-style-type: none"> Working on and around vehicles that can be dirty. Able to work in hot and cold environments.

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BEHAVIORAL SKILLS	<ul style="list-style-type: none"> • Ability to tolerate the conditions of the working environment • Ability to adapt to changing environments and work-related challenges 	<ul style="list-style-type: none"> • Ability to exercise sound judgment during repair process. • Ability to develop good rapport and interact with customers and peers in a diverse population. • Accept criticism and modify behavior and practices as needed. • Communicate in a mature, professional, accurate and effective manner with faculty, staff, and peers. • Perform duties efficiently, willingly, and thoroughly. • Present professional appearance and maintain personal hygiene.
WORK SKILLS	<ul style="list-style-type: none"> • Students will be able to participate in a work-based learning experience 	<ul style="list-style-type: none"> • Students will need to travel to a worksite. • Students may be required to pass a drug screening and/or background check. • Students may be required to obtain certain immunizations.