# **TECHNICAL STANDARDS**

## Radiography

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 <a href="https://www.mstc.edu/programs">https://www.mstc.edu/programs</a> 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 <a href="https://www.mstc.edu/student-services/disability-services">https://www.mstc.edu/student-services/disability-services</a>.

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> <li>Ability to identify cause-effect relationships.</li> <li>Ability to plan/control activities for others.</li> <li>Ability to synthesize knowledge and skills.</li> <li>Ability to sequence information.</li> <li>Ability to make decisions independently.</li> <li>Ability to adapt decisions based on new information.</li> <li>Ability to transfer knowledge from one situation to another.</li> <li>Ability to process and interpret information from multiple sources.</li> <li>Ability to analyze and interpret abstract and concrete data.</li> <li>Ability to evaluate outcomes.</li> <li>Ability to problem solve.</li> <li>Ability to prioritize tasks.</li> <li>Ability to use long-term and short-term memory.</li> </ul>	<ul> <li>Adapt decisions based on new information.</li> <li>Maintain focus in an environment with distractions.</li> <li>Demonstrate impulse control and professional level of maturity.</li> <li>Maintain appropriate boundaries in relationships with patients and peers.</li> <li>Maintain confidential information (Including by refraining from posting any confidential information on social media).</li> <li>Apply broad concepts to clinical situations.</li> <li>Concentrate to perform clinical tasks.</li> <li>Anticipate needs for procedures, patient, and respond appropriately.</li> <li>Prioritize care of patient.</li> <li>Be observant of contamination and know how to correct the situation.</li> </ul>



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## Mobility/Motor Skills

- Ability to move within confined spaces.
- Ability to maintain balance in multiple positions.
- Ability to reach above shoulders (e.g., IV poles, x-ray tubes)
- Ability to reach below waist (e.g., plug electrical appliance into wall outlet).
- Ability to reach out front.
- Ability to pick up objects with hands.
- Ability to grasp small objects with hands (e.g., IV tubing, pencil).
- Ability to write with a pen or pencil.
- Ability to key/type (e.g., use a computer).
- Ability to pinch/pick or otherwise work with fingers (e.g., manipulate a syringe).
- Ability to twist (e.g., turn objects/knobs using hands).
- Ability to stand (e.g., at client side during surgical or radiographic procedures).
- Ability to sustain repetitive movements (e.g., CPR).
- Ability to maintain physical tolerance (e.g., work on your feet a minimum of 8 hours).
- Ability to push and pull 50 pounds (e.g., position client, move equipment).
- Ability to support 50 pounds of weight (e.g., ambulate client).
- Ability to lift 50 pounds (e.g., pick up a child, transfer a client, bend to life an infant or child).
- Ability to carry equipment/supplies.
- Ability to squeeze with hands (e.g., operate a fire extinguisher).
- Ability to twist, bend, stoop and squat.
- Ability to move quickly (e.g., respond to an emergency).
- Ability to climb stairs.
- Ability to walk.

- Examples include the ability to grasp, twist, squeeze, pinch and manipulate equipment (i.e., ability to carry the cot).
- Examples include the ability to move in confined spaces; maintain balance in standing position; move body from one side to the other; reach below the waist and to the front or the side of the body to the level of the top of head; and ability to push, pull, stabilize, and freely move arms to allow movement of an object or transfer subjects from one place to another.
- Additional examples include the ability to squat or execute a modified squat (one knee on the floor); move quickly in case of emergency situations; climb and descend a flight of stairs.
- Transfer, lift and carry patients from floor to cot and may include uneven surfaces.
- Manipulate, assemble and move equipment.
- Type on a computer, write with a pen.
- Arm-hand steadiness.
- Finger and manual dexterity (squeeze, grasp, twist, pinch, and manipulate small objects, e.g. sharps).
- Demonstrate the ability to make precisely coordinated movements of the fingers to start IVs, manipulate or assemble instrument parts quickly with good hand-eye coordination.



#### **TECHNICAL STANDARDS** Radiography Wear personal, protective equipment for safe practices (masks, eyewear, etc.). Ability to respond to direction of the AED. **Tactile Skills** • Ability to feel vibrations (e.g., palpate pulses). · Detect subtle changes or • Ability to detect temperature (e.g., skin, solutions). differences (e.g. pulse, • Ability to feel differences in surface characteristics (e.g., skin temperature). turgor, rashes). Tactile examples include ability to • Ability to feel sizes and shapes (e.g., palpate vein, identify distinguish subtle vibrations body landmarks). through the skin (i.e., assess a • Ability to detect environmental temperature. pulse), identify the subtle • Ability to tolerate exposure to allergens (e.g., latex gloves, difference in surface chemical substances). characteristics, and detect Ability to tolerate strong soaps and odors. temperature (i.e., skin, liquids, • Ability to detect odors (e.g., foul drainage, alcohol breath, environments). • Detect subtle differences through smoke, gasses, noxious smells). skin (depth of veins and arteries; vibrations, pulse, temperature). Hold and operate equipment and IVs correctly. **Auditory Skills** Ability to hear normal speaking-level sounds (e.g., person-to- Identify lung sounds. person report). Auditory examples include ability Ability to hear faint voices. to hear and understand voices in • Ability to hear faint body sounds (e.g., blood pressure sounds, noisy. environments, including assess placement of tubes). traffic noise, busy places of • Ability to hear in situations when not able to see lips (e.g., business, sirens, etc. when masks are used). • Ability to hear auditory alarms (e.g., monitors, fire alarms, call bells). Visual Skills • Ability to see objects up to 20 inches away (e.g., information Visually detect hazards. on computer screen, skin conditions). See and detect warning signals • Ability to see objects up to 20 feet away (e.g., client in room). on equipment displays. Ability to use depth perception. Identify dangerous objects and Ability to use peripheral vision. situations within the • Ability to distinguish color and color intensity (e.g., color environment. codes on supplies, flushed skin/paleness). Ability to see clearly, (both near and far), including peripheral



vision and depth perception.

### **TECHNICAL STANDARDS** Radiography Ability to identify labels and patient ID bands. • Observe patient while in care. Communication Ability to read and understand written documents and digital • Speak, read, and write English. Skills Collaborate with others. displays (e.g., charts, graphs). Ability to teach (e.g., client/family about health care). • Respond to others in an Ability to influence people. accepting and respectful manner. Ability to direct/manage/delegate activities of others. • Ability to interact and support Ability to speak and write English. people during times of stress and • Ability to listen/comprehend spoken/written word. emotional upset. • Ability to collaborate with others (e.g., health care workers, Ability to cope with strong peers). emotions and physical outbursts • Ability to manage information. of people while remaining in a reasonable state of calm. Ability to focus attention on a person's needs despite interruptions and multiple demands. • Ability to interact as a team member. Ability to show respect for diversity in culture, religion, sexual orientation, marital status, socioeconomic status and abilities/disabilities. • Prepare written and verbal reports regarding patient care. • Ability to convey information in a clear, professional and timely manner. • Identify patients. • Read, identify, and chart data as needed. • Follow proper protocol. · Work independently and in a team. Interpersonal Ability to establish rapport with individuals, families, and Exhibit positive interpersonal Skills skills in all interactions. groups. • Ability to respect/value cultural differences in others. Maintain confidentiality.



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	<ul> <li>Ability to negotiate interpersonal conflict.</li> <li>Ability to establish professional relationships.</li> <li>Ability to provide client with emotional support.</li> <li>Ability to adapt to changing environment/stress.</li> <li>Ability to deal with the unexpected (e.g., client condition, crisis).</li> <li>Ability to focus attention on task.</li> <li>Ability to cope with own emotions.</li> <li>Ability to perform multiple responsibilities concurrently.</li> <li>Ability to cope with strong emotions in others (e.g., grief).</li> </ul>	<ul> <li>Demonstrate ability to work as a team member.</li> <li>Adhere to attendance, dress code, and personal hygiene policies or protocol.</li> <li>Respond to challenging situations while maintaining composure and professionalism.</li> <li>Avoid participating in gossip complaining and any other unprofessional communication.</li> <li>Exhibit consistent and on-time attendance as scheduled.</li> <li>Work cooperatively with intra and inter professional teams.</li> </ul>
Behavioral Skills	<ul> <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> </ul>	Display integrity, honesty, respect, reliability and accountability.

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• Read and comprehend procedure

manuals and policies.Comply with legal and ethical

standards.

• Ability to be attentive in the classroom, observe

demonstrations, and participate in lab classes.

