

## TECHNICAL STANDARDS & REPRESENTATIVE ACTIVITIES/ATTRIBUTES FOR SURGICAL TECHNOLOGY PROGRAMS

If you are unable to perform within these standards at any time during the program and a reasonable accommodation cannot be implemented, it could be grounds for immediate dismissal.

### Gross Motor Skills:

- Move within confined spaces
- Maintain balance in multiple positions
- Reach above shoulders (e.g., adjust overhead lights)
- Reach below the waist (e.g., plug an electrical appliance into a wall outlet)
- Reach out front

### Fine Motor Skills:

- Pick up objects with hands
- Grasp small objects with hands firm and slight (ex. surgical instruments, sutures)
- Write with a pen or pencil
- Key/type (e.g., use a computer)
- Pinch/pick or otherwise work with fingers (e.g., manipulate a syringe)
- Twist (e.g., turn objects/knobs using hands)
- Squeeze with the finger (e.g., eye dropper)
- Manual dexterity
- Finger dexterity
- Simultaneous use of hands, wrists, fingers
- Coordinate eye-hand and eye-hand-foot (e.g., pumping soap dispenser and surgical scrub)

### Physical Endurance:

- Stand for long periods from 4-6 hours.
- Maintain the same position for long periods.
- Sustained repetitive movements
- Function in a fast-paced work environment for hours

### Physical Strength:

- Push and pull 50 pounds (e.g., carry instrument pans, position client, move equipment)
- Support 50 pounds of weight (e.g., hold arm or leg)
- Lift 50 pounds (e.g., pick up a child, transfer a client, bend to lift an infant or child)
- Carry equipment/supplies (e.g., lift instrument pans)
- Use upper body strength (e.g., retraction, physically restraining a client)
- Squeeze with hands (e.g., operate fire extinguishers)

#### Mobility:

- Ability to: stand, walk, twist, turn, bend, stoop, squat, sit, climb stairs, move quickly

#### Hearing:

- Ability to hear normal-speaking-level sounds (e.g., person-to-person conversation, request for an instrument)
- Hear faint voices and body sounds (e.g., heartbeat)
- Ability to discriminate speech in the presence of background noises.
- Hear in situations when not able to see lips (e.g., masks are worn in the operating room)

#### Visual:

- See objects no closer than 12 inches from the face (e.g., information on a monitor screen, identification of small needles)
- See objects up to 20 feet away
- Use depth perception
- Use peripheral vision
- Distinguish color and color intensity (e.g., color codes on supplies)
- See in a darkened room (e.g., during endoscopic procedures, eye surgery)

#### Tactile:

- Feel vibrations (e.g., palpate pulses)
- Detect temperature (e.g., solutions)
- Feel differences in surface characteristics
- Feel differences in sizes, shapes
- Detect environment temperature

#### Environment:

- Tolerate exposure to allergens (e.g., latex gloves, chemicals/substances)
- Tolerate strong soaps
- Tolerate strong odors
- Exposure to and tolerate unpleasant sights and sounds, electrical energy, solvents, grease, oils, slippery or uneven walking surfaces, excessive noises, chemical and biological agents that could be potentially harmful
- Tolerate working in confined spaces for extended periods.
- Tolerate wearing protective equipment (e.g., mask, gown, gloves, glasses, laser, and radiation)
- Tolerate working indoors
- Tolerate working in extreme temperatures

#### Reading:

- Read and understand written documents
- Read digital displays

#### Math:

- Ability to count, add, subtract, multiply, and divide whole numbers
- Compute fractions and decimals
- Document numbers in records
- Tell and measure time
- Read measurement marks (e.g., rulers, scale)

#### Emotional Stability:

- Establish professional relationships
- Adapt to changing environment/stress
- Deal with the unexpected (e.g., patient condition, crisis)
- Focus attention on a task.
- Cope with own emotions
- Perform multiple responsibilities concurrently
- Cope with strong emotions in others (e.g., grief, anger, stress)
- Accept constructive feedback
- Accept responsibility for own actions

#### Analytical Thinking:

- Transfer knowledge from one situation to another
- Process and interpret information from multiple sources (written or oral)
- Analyze and interpret abstract and concrete data
- Evaluate outcomes
- Problem solves.
- Prioritize tasks (e.g., time management)
- Use long-term memory
- Use short-term memory

#### Critical Thinking:

- Identify cause-effect relationships
- Plan/control activities (organizational skills)
- Sequence information
- Make decisions independently
- Adapt decisions based on new information
- Comprehend and follow instructions
- Follow a process from start to finish (e.g., two or more step instructions)
- Maintain sterile technique
- Promote and maintain patient and team safety

#### Interpersonal Skills:

- Establish a rapport with individuals (e.g., surgeons, staff members, and groups)
- Respect/value diversity in others
- Negotiate interpersonal conflict
- Demonstrate tolerance in working with others
- Function as part of a team

#### Communication Skills:

- Speak English
- Write English
- Listen/comprehend spoken/written word
- Collaborate with others (e.g., health care workers, peers)
- Comprehend and exhibit nonverbal communication
- Respond to others in an accepting and respectful manner
- Demonstrate calm and effective behavior and responses, especially during emergencies.