



SURGICAL TECH

Essentials needed to perform with organized precision and skill in the operating room



INTRODUCTION

- Surgical technologist (a.k.a. "scrub" or " sterile tech")
- An allied health professional and sterile surgical team member who has completed a CAHMEP-accredited (or equivalent) program; required
- Basic knowledge of medical terminology, anatomy, physiology, microbiology, and pharmacology to apply while in the operating room (OR)
- Most knowledge of sterile technique, surgical

instruments, and surgical supplies to apply while protecting the sterile supplies from contamination within the sterile workspace.

Certified surgical technician (CST)

- Surgical technologist who has completed a CAHMEP-accredited program (or the equivalent) and has passed the NBSTSA certification exam
- Once a CST has obtained NBSTSA certification, the CST must either:
 - Obtain and report at least 30 continuing education

hours (CEUs) every two years through AST-approved sources and submit the official renewal form and fee to NBSTSA.

- Renew certification by retaking and passing NBSTSA's CST exam.

Note: Some states and employers require certification for employment. Visit www.ast.org for an overview of state laws related to the education/certification of surgical technicians.

OPERATING ROOM (OR) TEAM



- Goal: Assist in optimal patient care
- Bottom: "Argos primo" (patient first)

Sterile Members

- Surgical technician: See Surgical Tech Duties, right
- Surgeon: Performs the procedure.

- maintains homeostasis, and directs the OR team
- Surgeon's assistant: Collaborates with the surgeon during the surgical procedure to provide visualization, homeostasis, wound closure, and patient care

Nonsterile Members

- Anesthesiologist provider: Sedates the patient, maintains the airway, and monitors vital signs and blood loss to maintain homeostasis
- Circulator: Ensures all perioperative protocols are completed, such as prepping and positioning the patient, charting patient information while in the OR, distributing nonsterile items, and obtaining/opening sterile supplies for the sterile team with the sterile techniques during a surgical procedure
- Auxiliary staff (pathology, radiology, etc.): Processes, tests, and analyzes specimens and reports results; provides real-time diagnostic support during the surgical procedure

Surgical Tech Duties

- Perioperative Duties
- Time management

- Organization
- Critical thinking
- Stress management
- Teamwork
- Patient care

Preoperative Duties

- Prepare the OR with case-specific sterile and nonsterile surgical supplies
- Complete surgical rounds and don a sterile surgical gown and sterile gloves
- Organize sterile supplies using sterile techniques, including labeling, medications and other sterile solutions
- Complete mandatory counts of supplies within the sterile workspace for each surgical case including, but not limited to, sponges, sharps, and instruments
- Assist in draping patient with sterile techniques
- Complete WHO-required "sign in" and "sign out" with the OR team

Intraoperative Duties

- Maintain sterile techniques within sterile field with all other sterile and nonsterile team members
- Recognize and correct breaks in sterility when/if they occur
- Follow along with the sequence of the case and anticipate the needs of the

- surgeon and surgical assistant
- Prepare and pass all sterile supplies to the surgeon and surgical assistant
- Hold organs and retractors
- Care for specimens (if obtained) until surgeon gives a specific plan of action
- Complete intraoperative supply counts (sponges, sharps, instruments, accessories, etc.)

Postoperative Duties

- Complete postoperative supply counts (sponges, sharps, instruments, accessories, etc.)
- Complete WHO "sign in" with the OR team
- Assist with closing the wound
- Maintain sterility of supplies until patient leaves the OR
- After patient leaves the OR, break down the case into respective supply reprocessors (sharps container, biohazard container, garbage, linen, etc.)
- Take used surgical case supplies to designated area within the OR department for disposal, cleaning, or sterilization
- Assist in cleaning the OR for the next surgical case

CST-ASSOCIATED ORGANIZATIONS

- National Board of Surgical Technology and Surgical Assisting (NBSTSA, www.nbsta.org): Develops the certification exam and verifies, monitors, and reviews credentials of surgical technologists and surgical assistants
- Commission on Accreditation of Allied Health Education Programs (CAAHEP, www.caahp.org): Largest programmatic accreditor of the health science professions
- Association of Surgical Technologists (AST, www.ast.org): Upholds the standards of practice for patient care and the profession

The CST must renew AST membership annually.

- The Joint Commission (TJC, www.jointcommission.org): Independent nonprofit organization that sets standards and accredits/ certifies health-care facilities that meet or exceed safe and effective care of the highest quality and value
- Occupational Safety and Health Administration (OSHA, www.osha.gov): Ensures safe and healthy working conditions for employees and patients by setting and enforcing standards through training, outreach, education, and assistance
- World Health Organization (WHO, www.who.int): Global health organization that establishes, monitors, and enforces international norms and standards of health and disease

MEDICAL TERMINOLOGY USED IN THE OR

- Sterile: Free of all living microorganisms
- Sterile technique: Specific practices and procedures performed to protect a designated area or supplies used to prevent the contamination and spread of pathogens and maintain sterility
 - Sterile-through contamination: Contamination of a sterile surface or object that occurs when fluid passes through a microbial barrier or nonsterile surface
- Surgical site infection (SSI): Infection acquired in a surgical wound from the healing process or contamination
- Contaminated: To infect by contact or association with pathogenic materials

- Decontamination: To rid of contamination
- Nonsterile: Not free from living microorganisms; not sterile
- Perioperative: The entire operative sequence for a specific operative case and patient care procedures
 - Preoperative (pre-op): Beginning of the operative sequence of supplies entering the OR until the first incision is made or incision entered
 - Intraoperative (intra-op): Actual surgical procedure from the first incision/ orifice entered until the last stitch is complete or orifice exited
 - Postoperative (post-op): Conclusion of the surgical procedure from the closing of the wound until the patient leaves the OR.
- Surgical conscience: Putting the patient first by doing what is moral and just at all times; the surgical technologist must:

- Accept and maintain patient confidentiality
- Ensure the safety of everyone in the OR
- Be practical with medical supplies, cost, and time
- Maintain sterile practices and hold team members accountable
- Prevent any and all contaminations
- Be attentive to the patient's scheduled time in the OR during perioperative services
- Conduct productive and professional communication



Surgical Technology Study Guide

Carolan Sherman, Mary Chmielewski

Surgical Technology Study Guide:

Surgical Technologist Certifying Exam Study Guide Association of Surgical Technologists,2004-01-01 *Secrets of the CST Exam Study Guide: CST Test Review for the Certified Surgical Technologist Exam* Mometrix Media LLC.,2018-04

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