



SURGICAL TECH

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



INTRODUCTION

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

- instruments, and surgical supplies to apply while protecting the sterile supplies from contamination within the sterile workspace
- **Certified surgical technologist (CST)**
 - Surgical technologist who has completed a CAABEP-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

units (CEU) 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 technologists.

OPERATING ROOM (OR) TEAM



- **Goals:** Assist in optimal patient care
- **Motto:** "Aeger primo" (patient first)

Sterile Members

- **Surgical technologist:** 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

- **Anesthesia 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, clustering patient information while in the OR, distributing nonsterile items, and obtaining/opening sterile supplies for the sterile team with the sterile technique 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 scrub and don a sterile surgical gown and sterile gloves
- Organize sterile supplies using sterile technique, 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 technique
- Complete WHO-required "sign in" and "time out" with the OR team

Intraoperative Duties

- Maintain sterile technique 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 out" with the OR team
- Assist with dressing the wound
- Maintain sterility of supplies until patient leaves the OR
- After patient leaves the OR, break down the case into respective supply receptacles (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.nbstsa.org):** Develops the certification exam and verifies, awards, and revokes credentials of surgical technologists and surgical assistants
- **Commission on Accreditation of Allied Health Education Programs (CAAHEP, www.caahep.org):** Largest programmatic accreditor of the health sciences professions
- **Association of Surgical Technologists (AST, www.ast.org):** Upholds the standards of practice for patient care and the profession

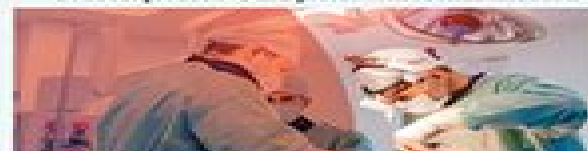
- The CST must renew AST membership annually.
- **The Joint Commission (TJC, www.jointcommission.org):** Independent nonprofit organization that sets standards and accredits/verifies health-care facilities that meet or exceed safe and effective care of the highest quality and value
- **Occupational Safety 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
 - **Strike-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

- **Decontaminator:** 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 orifice 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 dressing 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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 Transporting and transferring the patient Performing urinary catheterization Transferring the patient to the operating room
 table Surgical skin preparation draping Drug administration The operating room team Receiving nurse The scrub nurse
 assistant Anesthesia care provider Circulator The operating room Safety Patient transport and transfer Positioning Operating
 table Positioning techniques Surgical preparation Preoperative patient preparation Possible risks of surgical skin prepping
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Carolann Sherman, Mary Chmielewski, 2017-05-22

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