



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 NIBSTSA certification exam
 - Once a CST has obtained NIBSTSA 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 NIBSTSA.

- Renew certification by retaking and passing NIBSTSA'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



- **Goal:** 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 (NIBSTSA, www.nibstsa.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

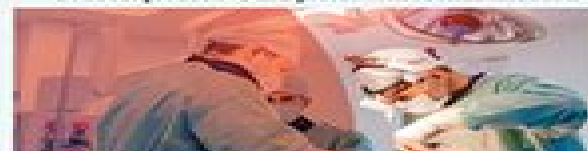
- The CST must renew AST membership annually.
- **The Joint Commission (TJC, www.jointcommission.org):** Independent nonprofit organization that sets standards and accredits/verifies health-care facilities that meet or exceed safe and effective care of the highest quality and value
- **Occupational Safety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



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