



# 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](http://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](http://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](http://www.caahep.org)):** Largest programmatic accreditor of the health sciences professions
- **Association of Surgical Technologists (AST, [www.ast.org](http://www.ast.org)):** Upholds the standards of practice for patient care and the profession

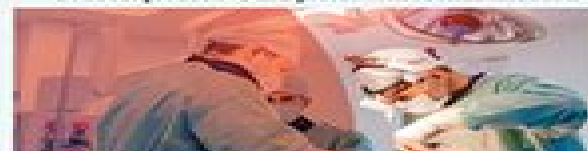
- The CST must renew AST membership annually.
- **The Joint Commission (TJC, [www.jointcommission.org](http://www.jointcommission.org)):** Independent nonprofit organization that sets standards and accredits/verifies health-care facilities that meet or exceed safe and effective care of the highest quality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

**Carolann 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  
Pass The CST Exam on Your First Try With Secrets of the CST Exam you can ace the Certified Surgical Technologist Exam on the first try without weeks and months of endless studying Our comprehensive CST study guide is written by exam experts who have painstakingly researched every topic and concept that you ll need to know to ace your test Our original research reveals specific weaknesses that you can exploit to get the passing score you deserve so you can get started on your surgical tech career right away Secrets of the CST Exam covers all the material you need to know on the CST test including Peri Operative Patient Care Pre Operative Preparation Intra Operative Procedures Post Operative Procedures Additional Duties Administrative and Personnel Equipment Sterilization and Maintenance Basic Science Anatomy and Physiology Microbiology Surgical Pharmacology Plus The Five Secret Keys to a High CST Score The Top 20 Test Taking Tips and much more

Surgical Tech Lora Smith,2019-11 Quick reference to the answers you need for your education as a surgical technologist also known as a scrub scrub tech surgical technician or operating room tech Working in an operating room for surgery requires organized precision and skill to be part of a lifesaving team In 6 laminated pages this tool will keep the most important core elements of your education at your fingertips for easy and quick review at a moment s notice in the classroom as a last minute review or during marathon study sessions Frequent reviews will commit these answers to your memory for class tests the CST exam for certification and beyond to job interviews and ultimately the operating room Ensure success in this exciting and growing field with a study tool that offers more value per page than any surgical tech study tool out there 6 page laminated guide includes Introduction Operating Room OR Team CST Associated Organizations Medical Terminology Used in the OR Prefixes Suffixes Abbreviations OR Layout Furniture Air Quality Control Anatomy for the Surgical Technician Patient Positions on the OR Table Surgical Instruments in the OR Anesthesia Pharmacology Hemostasis Disinfection Sterilization The Instrument Cycle     **Study Guide with Lab Manual for the Association of Surgical Technologists'**

**Surgical Technology for the Surgical Technologist: A Positive Care Approach** Association of Surgical Technologists,2017-10-18 The study guide includes lab activities for each chapter that inspire learning through creative and practical applications hundreds of questions in each chapter to help reinforce and test your understanding of the concepts image labeling exercises to build your knowledge of instruments and anatomy and case studies with related questions to develop and sharpen your critical thinking skills Important Notice Media content referenced within the product description or the product text may not be available in the ebook version     *Study Guide for the Association of Surgical Technologists' Surgical Technology for the Surgical Technologist: A Positive Care Approach* Association of Surgical Technologists,2023-11-11 The study guide includes lab activities for each chapter that inspire learning through creative and

practical applications hundreds of questions in each chapter to help reinforce and test your understanding of the concepts image labeling exercises to build your knowledge of instruments and anatomy and case studies with related questions to develop and sharpen your critical thinking skills Surgical Technologist Certifying Exam Study Guide Asa,2013-01-01 Questions written and reviewed by surgical technologist educators Practice exams designed to represent the national exam content outline This comprehensive examination study resource offers proven test taking strategies and approaches to help you achieve success Cover **Study Guide and Lab Manual for Surgical Technology for the Surgical Technologist** Association of Surgical Technologists,2013-01-15 This Study Guide and Lab Manual is an essential companion to SURGICAL TECHNOLOGY FOR THE SURGICAL TECHNOLOGIST Fourth Edition textbook Loaded with opportunities to practice and demonstrate critical skills it is a must have resource to support your success in the surgical environment Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

**Surgical Technology PREP** Jacqueline R. Bak,Michelle A. Muhammad,2017-10-13 Everything you need to excel on the Certified Surgical Technologist exam in one complete package Surgical Technology PREP summarizes the entire surgical technology curriculum in one concise engagingly written outline style review Written by educators with over 30 years of experience this powerful review is based on the Certified Surgical Technologist CST exam blueprint and delivers complete coverage of all the must know concepts in surgical technology Readers will find everything they need to prepare for the Certified Surgical Technologist exam and to excel on their coursework including chapter review questions easy reference definitions and knowledge checks that reinforce learning and help students understand and remember key concepts The entire surgical technology curriculum summarized in a concise accessible narrative to aid in comprehension and retention Q A at the end of each chapter to reinforce learning Knowledge checks throughout to prepare you for the exam and real world application Essential for certification and re certification *The Ultimate Cst Study Guide for Surgical Technologists* Monique De Ville,2013-03 With over 1 000 practice questions this book is designed to be a comprehensive study tool used to prepare surgical technologists for certified surgical technologist exam offered by the National Board of Surgical Technology and Surgical Assisting This study guide includes full explanations high quality instrument images and questions covering Anatomy Physiology Microbiology Pharmacology Pathophysiology Preoperative Preparation Intraoperative Procedures Postoperative Procedures and Sterilization Maintenance Surgical Technology for the Surgical Technologist Association of Surgical Technologists,2008-02-04 **The Practical Study Guide for the Surgical Technologist Certification Exam** Cst As Joseph J. Rios,Joseph J. Rios,2008-08-18 This study contains sample questions that have historically been used in prior exams in an effort to familiarize the user in understanding the exam structure In addition this study guide contains two 2 175 question practice exams that will assist the user in understanding the strengths and weaknesses T p Surgical Technologist Certifying Exam Study Guide Mary Smith,2019-08-02 What you will learn from this book The surgical

technologist responsibilities The preparation of supplies and instruments Preparation of the operating room suite  
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  
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*LANGE Q&A Surgical Technology Examination, Seventh Edition*  
Carolann Sherman, Mary Chmielewski, 2017-05-22

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users fully comprehend the information being asked and why a specific choice is best UNIQUE Full color photos and illustrations offer vivid images of instruments equipment clinical situations concept maps and basic science to help improve comprehension Chapter review questions allow users to test their level of comprehension before moving onto the next chapter and provide practice for the simulated exams Surgical Technology for the Surgical Technologist Bob Caruthers, Teri L. Junge, Association of Surgical Technologists, 2001 This new text is written by surgical technologists and surgical technology educators with over 50 years of combined experience in the field the only text written specifically for the surgical technologist it focuses on the knowledge and cognitive skills required of the surgical technologist It introduces the A Positive Care Approach a systematic approach to intraoperative problem solving that focuses on the ability of the surgical technologist serving in the traditional role called first scrub to predict the surgeon's and patient's needs Features Meets the Association of Surgical Technologists Core Curriculum for Surgical Technology 4th edition Surgical procedures are presented by surgical speciality in a consistent illustrative format throughout the text that helps students develop a pattern for learning procedures Objectives reflect the CARE and APOS acronyms memory tools for systematic problem solving Case studies and questions for further study in each chapter apply concepts learned and stimulate critical thinking The color insert provides an overview of select anatomic systems and illustrates practical aspects of surgical technology Pearls of Wisdom tips from the author's experience help the student maintain a practical focus on the procedure Supplements Computerized Testbank 0 7668 0665 0 Instructor's Manual 0 7668 0663 4 Student Workbook 0 7668 0664 2 Appleton & Lange Review for the Surgical Technology Examination: Fifth Edition Nancy M. Allmers, Joan Ann Verderame, 2004 More questions and answers than any review of surgical technology on the market With over 1 500 questions modeled after those of the national certification exam and detailed answers this book provides an outstanding review of all major areas of surgical technology including the newest content added to the exam A 250 question practice test is also included



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