



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 CAAHEP-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 CAAHEP-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



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

Sterile Members

- **Surgical technologists:** See Surgical Tech Duties, right
- **Surgeons:** 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, charting 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 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 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/it 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, renews, 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 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
 - **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

- **Decontaminate:** To rid of contamination
- **Nonsterile:** Not free from living microorganisms; not sterile
- **Preoperative:** 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

DP Hallahan



Surgical Technology Study Guide:

Surgical Tech Certification Study Guide Pasquale De Marco, 2025-04-28 Embark on an educational journey into the realm of surgical technology with this comprehensive guide meticulously crafted for aspiring and practicing surgical technologists. Within these pages, you will find an in-depth exploration of the intricate procedures and techniques that ensure the safety and well-being of patients undergoing surgery. As you delve into the chapters, you will gain a thorough understanding of the surgical environment encompassing the specialized equipment, instrumentation, and sterilization techniques that uphold the highest standards of asepsis. Moreover, you will delve into the nuances of preoperative care encompassing patient assessment, preparation, and informed consent, ensuring that patients are adequately prepared for surgery. Furthermore, this guide unveils the intricacies of intraoperative care, guiding you through the meticulous steps of scrubbing, gowning, draping, and positioning the patient. You will master the art of monitoring the patient's vital signs, anticipating potential complications, and assisting the surgeon with precision and dexterity. Beyond the operating room, this book explores the multifaceted role of the surgical technologist in postoperative care, emphasizing the importance of pain management, wound care, and patient education. It also delves into the realm of surgical emergencies, equipping you with the knowledge and skills to respond effectively to unforeseen circumstances. This comprehensive resource extends its reach to encompass legal and ethical considerations in surgical practice, ensuring that you navigate the complexities of patient rights, informed consent, confidentiality, and medical malpractice with integrity and professionalism. Additionally, it explores the avenues for professional development, highlighting the significance of continuing education, certification, and networking in advancing your career as a surgical technologist. Enrich your knowledge and elevate your skills with this indispensable guide, empowering you to excel in your role as a surgical technologist and contribute to the delivery of exceptional patient care. If you like this book, write a review on Google Books.

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 175-question practice exams that will assist the user in understanding the strengths and weaknesses. **Surgical Technology for the Surgical Technologist** Paul Price, Kevin B. Frey, Teri L.

Junge, Association of Surgical Technologists, 2004 This new edition meets the requirements of the revised Core Curriculum for Surgical Technologists 5th edition. It is written by surgical technologists for surgical technologists. The content focuses on the concepts and skill development, cognitive and procedural, required of surgical technologists in the operative environment. The text uses the A POSitive CARE approach to surgical problem solving that concentrates on the ability of the surgical technologist to predict the patient's and surgeon's needs through the intraoperative period. The goal is for the surgical technologist to apply this model in daily practice for maximum efficiency and effectiveness during the surgical procedure. The

surgical procedures included in the text were selected for their instructive value and because the skills demonstrated can be applied to many other procedures *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 **Surgical Technology**

Review Karen L. Chambers, Valerie Roche, 2022-09-26 THE BEST I wish our instructor would have given us this to study with Passed my exam with a 90% and felt VERY prepared Pam L Online Reviewer Be prepared for certification exam success A concise outline format reviews the essential content on The National Board of Surgical Technology and Surgical Assisting NBSTSA Certification Examination for Surgical Technology CST and the Tech in Surgery Certified TS C exam administered by the National Center for Competency Testing NCCT Reinforce and test your knowledge with more than 1 600 practice questions with detailed rationales You'll be ready to meet the growing demand for certified surgical technologists Now with online Q A practice in Davis Edge Purchase a new print copy of the text and receive a FREE 1 year subscription to Davis Edge the online Q A program with more than 1 000 questions Davis Edge helps you to create quizzes in the content areas you choose to focus on build simulated practice exams and track your progress every step of the way The Text Expanded Content on laparoscopic and robotics procedures More Photographs that reflect current practice and advances in the field More questions 640 questions at the recall problem solving and application levels New Comprehensive rationales for correct and incorrect responses for all practice questions Updated The latest advances in surgical technology including minimally invasive surgery and the use of robotics in surgery Brief content outlines for each chapter 40 review questions at the end of each chapter followed by the answer key and rationales 150 line drawings and photographs precisely illustrating anatomy positioning and instruments Tidbit boxes highlighting important content for exams and practice Davis Edge Online Q A NEW FREE 1 year access with purchase of new print text Online Q A quizzing platform features 1 000 questions Comprehensive

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Association of Surgical Technologists,2004-01-01

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Resources in Education ,1993

Surgical Tech Lora Smith,2019-11

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