



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

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

Intraoperative Duties

- Maintains sterile techniques within sterile field with all other sterile and nonsterile team members
- Recognizes and corrects breaks in sterility when/if they occur
- Follows along with the sequence of the case and anticipate the needs of the

- surgeon and surgical assistant
- Prepares 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

- Completes postoperative supply counts (sponges, sharps, instruments, accessories, etc.)
- Complete WHO "sign in" 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 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 procedure
 - 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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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

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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

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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 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 Patient draping Infection control Skin prepping to control the spread of infections Pyogenic bacterial infections Mycobacterial infections Viruses Blood borne pathogens Viral hepatitis Handwashing Decontamination disinfection sterilization Disinfection Sterilization Wrapping products for sterilization Decontamination Anesthesia Instrumentation Instrument function Vascular instruments Cushing forceps Debakey forceps Cooley vascular clamp Potts smith scissors Right angle forceps Jeweler s forceps Surgical tray set up Cardiothoracic tray Orthopaedic tray Catheters Tips Sutures Laser surgery and electrosurgery Laser hazards Protection Electrosurgery SuppliesSurgical procedures Plastic and reconstructive surgery terms Gynecological and obstetrical surgery Pediatric surgery Ophthalmic surgery Otorhinolaryngologic oral and maxillofacial surgery Cardiothoracic surgery Surgical meds and dyes Iv fluid and irrigating solutions Drugs that cause constriction or constriction of tissue Anti infections drugs Hemolytic drugs Coagulants Drugs commonly used in cardiac and respiratory failure Diuretics Basic medical terminology and abbreviations practice exams *LANGE Q&A Surgical Technology Examination, Eighth Edition* Carolan Sherman,Mary Chmielewski,2021-09-10 Pass the Surgical Technology Certification CST exam with ease Featuring more than 1 700 Q As and summaries of important points for each chapter this valuable resource provides the most complete review available for the surgical technology certification CST exam The book is divided into six core sections to facilitate more effective studying and review *LANGE Q A Surgical Technology Examination Eighth Edition* includes detailed answer explanations and covers all major areas of the surgical technology curriculum This is an essential resource for students preparing for the certification exam as well as surgical technologists looking for the latest information on specific procedures such as orthopedics plastic surgery and emergency procedures 1 700 exam style questions with detailed answer explanations prepare you for what you will actually see on the exam Organized into six core sections for the most effective study possible Fundamental Knowledge Infection Control Concepts of Patient Care Preoperative Preparation Intraoperative and Postoperative Procedures and Technology in the Operating Room Chapter synopses summarize key topics terms and objectives in quick read bulleted text Thorough coverage of cutting edge topics such as robotics and endoscopic surgery Ideal for use during coursework and for intensive exam preparation *Elsevier's Surgical Technology Exam Review - E-Book* Anbalagan George,Joseph E Charleman,2017-01-29 The all in one surgical technology review you ve been waiting for is finally here Elsevier s Surgical Technology Exam Review combines comprehensive content review worktext practice and customizable simulated testing options to give you the 360 degree

preparation needed for success on the CST exam Content chapters offer a thorough review of the CST exam focus areas including medical terminology basic science asepsis surgical technique and surgical procedures all in a helpful outline format Each chapter also features full color images and illustrations review questions with rationales and surgical concept maps A sample exam at the end of the book provides a simulated test day experience The realistic preparation continues online with a testing engine that lets you access exam questions by category or create custom generated exams that match the format of the CST exam If you're looking to pass the CST and be fully prepared for clinical practice this is the one Surgical Technology review book that you can't afford to be without UNIQUE All in one resource incorporates content discussions worktext practice review questions and six full practice exams to fully prepare users for the certification exam UNIQUE Surgical concept maps in the worktext help emphasize the critical thinking skills needed for clinical success by combining relevant medical terminology anatomy pathophysiology microbiology and pharmacology for each surgical procedure and helping users learn how to apply that foundational knowledge to the operating room Content chapters offer a thorough review of the CST exam focus areas including medical terminology basic science asepsis surgical technique and surgical procedures all in an outline format National Board format utilizes the exam blueprint for the National Board of Surgical Technology and Surgical Assisting's CST exam to organize content and practice exams Six practice exams each with 175 questions help users improve familiarity with answering exam style questions and build test taking confidence Realistic testing experience utilizes an online computer based testing environment and timing function to mimic the actual testing experience Practice exam customization enables users to practice specific CST blueprint categories in practice mode or use an auto generator for full CST style tests in exam mode Answer keys and rationales for each chapter review question and practice test question help 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 *LANGE Q&A Surgical Technology Examination, Seventh Edition* Carolan Sherman, Mary Chmielewski, 2017-05-22 Pass the Surgical Technology Certification exam with ease Features more than 1 700 Q&As online practice tests and NEW summaries of important points for each chapter This latest edition provides the most complete review available for the surgical technology certification exam LANGE Q&A Surgical Technology Examination delivers 1 700 Q&As covering topics found on the national certification examination The book includes detailed answer explanations and covers all major areas of the surgical technology curriculum The Seventh Edition has been updated to cover the latest surgical techniques instruments and procedures Prepare for the certification exam and update your surgical know how with the latest information on specific procedures such as orthopedics plastic surgery and emergency procedures Features Online practice test enabling you to customize exams and track results simulating the test experience

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