



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**

**SUR1050 Introduction to Surgical Asepsis and  
Fundamentals  
4 Semester Hours**

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**Student Learning Outcomes & Enabling Objectives**

1. Investigate the professional expectations and attributes of surgical technologists.
  - a. Discuss the personal professional behaviors of the surgical technologist
  - b. Define the “Surgical Conscience”
  - c. Describe the requirements of obtaining the professional credential from the NBSTSA
  - d. Investigate the professional organizations within the Surgical Technology profession.
  - e. Explore the various professional avenues for Surgical Technologists within the healthcare field
  - f. Explain the importance of teamwork and communication in the operating room
2. Compare and contrast the roles and expectations of sterile and non-sterile team members in the operating room
3. Investigate the sterile and non-sterile roles of each operative team member during the different phases of surgical intervention
  - a. Apply the principles of asepsis as it pertains to all roles with the operative team
4. Examine the surgical work environment
  - a. Differentiate between restricted, semi-restricted and non-restricted areas of the perioperative floor
  - b. Identify potential hazards of working within the perioperative environment.
  - c. Differentiate between standard precautions and universal precautions
  - d. Identify standard and specialty equipment in the operating room, and discuss the function of each
  - e. Describe proper operating room decontamination
5. Examine the proper handling and processing of surgical instrumentation, equipment and supplies
  - a. Classify instrumentation by function
  - b. Classify the working parts of surgical instrumentation
    - i. Describe how they apply to the care and reprocessing of surgical instrumentation and patient care equipment
  - c. Identify surgical blades and their use
  - d. Explain the methods of sterilization
    - i. Define the parameters of sterilization for each method
    - ii. Summarize the difference between sterilization and disinfection
    - iii. Recognize the proper method of sterilization for instrumentation, equipment and supplies used during surgical procedures

- iv. Describe patient care items and the level of disinfection or sterilization required for safe patient use
    - v. Discuss the indicators used to determine sterility
    - vi. Explain how indicators determine proper functioning of equipment used to sterilize instrumentation, equipment and supplies
    - vii. Discuss sterile storage and distribution of instrumentation, equipment and supplies
  6. Examine the concepts of microbial barriers
    - a. Discuss the proper technique of donning a sterile gown and aseptic removal of gown and gloves after a surgical procedure
    - b. Discuss the proper technique of gowning a team member
    - c. Discuss gloving techniques
    - d. Discuss draping materials and techniques of the surgical patient, operating room furniture and accessory surgical equipment.
  7. Differentiate between medical hand wash and surgical hand scrub
  8. Examine preoperative patient routines
    - a. Discuss NPO status
    - b. Explain preoperative bathing routines
    - c. Describe preoperative hair removal
  9. Discuss the proper technique and safety issues regarding:
    - a. Patient transport
    - b. Patient transfer to the operating room table
    - c. Patient positioning on the operating room table
    - d. Discuss proper handling of sharps
    - e. Examine the creation of the neutral zone in relation to sharp handling
    - f. Thermoregulation of the operative patient
    - g. Surgical skin preparation of the operative patient
  10. Investigate the purpose and method of counting instrumentation, sharps and sponges
    - a. Examine the need for surgical counts
    - b. Differentiate between surgical sponges and dressing sponges
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## **Big Ideas and Essential Questions**

### **Big Ideas:**

- Professionalism in surgical technology
- Work Environment
- Safety in the Operating Room
- Patient Safety
- Sterilization and Disinfection Processes
- Introduction to instrumentation, equipment and supplies
- Sterile Technique and application of aseptic principles
- Purpose and method of counting instrumentation and supplies

### **Essential Questions:**

1. Why is it important to obtain and maintain the professional credential?
2. How do professionalism and communication lead to quality patient care?
3. How do the members of the operating room team work together to provide patient care?
4. What is unique about the surgical work environment?
5. What role does the surgical technologist play in patient safety and operating room safety?
6. How does the understanding and application of sterile technique and aseptic principles lead to positive patient outcomes?

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These SLOs are not approved for experiential credit.

**Effective: Summer 2020**