BAKER COLLEGE
STUDENT LEARNING OUTCOMES

SUR 1050 Introduction to Surgical Asepsis and Fundamentals
4 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Investigate the profession of surgical technology.
    a. Discuss the personal and professional behaviors of the surgical technologist.
    b. Define the “Surgical Conscience.”
    c. Describe the requirements for 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.
2. Examine the surgical work environment.
    a. Differentiate between restricted, semi-restricted, and non-restricted areas of the perioperative floor.
    b. Explain the relationship between perioperative floor design and the reduction of surgical site infections.
    c. Apply the principles of airflow to the perioperative floor.
    d. Identify standard and specialty equipment in the operating room.
    e. Discuss the function of standard and specialty operating room equipment.
3. Investigate the environmental system safety controls used in the operating room.
    a. Identify potential hazards of working within the perioperative environment.
    b. Describe blood-borne pathogens.
    c. Relate the process of infection to surgical practice.
    d. Describe proper safety behaviors to mitigate or avoid hazards in the operating room.
    e. Identify precautions to prevent exposure to ionizing radiation.
    f. Describe the symptoms of a true latex allergy.
    g. Describe methods associated with preventing a fire in the operating room.
    h. Differentiate between standard precautions and universal precautions.
    i. Explain the procedures used in transmission-based precautions.
4. Evaluate each operative team member's sterile and non-sterile roles during the different phases of surgical intervention.

    a. Differentiate between the roles and expectations of surgical team members in the sterile roles.
    b. Apply the principles of asepsis as they pertain to all roles of the operative team.
    c. Discuss the importance of the “chain of command” in the operating room.
5. Analyze sterile technique.
    a. Define the terms related to sterile technique.
    b. Relate the processes of sterile technique to infection control.
    c. Describe proper surgical attire.
    d. Explain the concepts of barriers and containment.
    e. Describe the methods used to maintain sterility and the sterile field.
6. Demonstrate the proper handling and processing of surgical instrumentation, equipment, and supplies.
    a. Identify the working parts of surgical instrumentation.
    b. Differentiate instruments by their function.
    c. Summarize the difference between sterilization and disinfection.
        i. Describe how they apply to surgical instrumentation and patient care equipment.
        ii. Relate the Spaulding classification system to surgical instrumentation, equipment, and supplies.
        iii. Describe proper operating room decontamination.
    d. Describe the different processes of sterilization.
7. Investigate the elements of surgical case management.
    a. Evaluate the elements of surgical case planning.
    b. Discuss the purpose of preoperative case preparation.
    c. Examine the need for surgical counts.
    d. Describe the correct procedure for performing a count.
    e. Discuss the guidelines for preventing lost and retained items.
    f. Explain surgical objectives and how they can be grouped into types.

Big Ideas and Essential Questions

Big Ideas

- Surgical technology profession
- Work environment
- Safety
- Roles in the operating room
- Sterile technique
- Instrumentation, equipment, and supplies
- Surgical case planning

Essential Questions

1. In what ways does certification affect the quality of practice in surgical technology?
2. How does the design of the operating room floor plan relate to patient safety?

3. What are the consequences of bypassing safety precautions in the operating room for the patient and the operating room team?
4. What types of issues might the surgical technologist experience if they are unfamiliar with the chain of command in the operating room?
5. What role does the surgical technologist play in the sterile processing of instrumentation, equipment, and operating room supplies?
6. How does understanding and applying sterile and aseptic techniques lead to positive patient outcomes?
7. How does the surgical technologist influence surgical intervention?

These SLOs are not approved for experiential credit.

Effective: Summer 2023