



Western Technical College

## 10512130 Surgical Skills Application

### Course Outcome Summary

#### Course Information

<b>Description</b>	Provides a transition from the academic to the clinical setting. Learners integrate the surgical technologist skills as they apply to various surgical procedures.
<b>Career Cluster</b>	Health Science
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	2
<b>Total Hours</b>	108

#### Pre/Corequisites

Pre/Corequisite 10512128 Surgical Tech Fundamentals 2

#### Textbooks

*Alexander's Surgical Procedures*. Copyright 2012. Rothrock, Jane C. Publisher: Elsevier Science. **ISBN-13:** 978-0-323-07555-8. Required.

*512-126 Surgical Technologist Clinical Booklet*. Western. Publisher: Western. Required.

*Surgical Technology for the Surgical Technologist: A Positive Care Approach*. 5th Edition. Copyright 2018. Association of Surgical Technologists. Publisher: Cengage Learning. **ISBN-13:** 978-1-305-95641-4. Required.

#### Learner Supplies

UVEX Astrospec 3000 Goggles (over glasses or no glasses style). **Vendor:** Campus Shop. Required.

## Success Abilities

1. Cultivate Passion: Expand a Growth-Mindset
2. Cultivate Passion: Increase Self-Awareness
3. Live Responsibly: Embrace Sustainability
4. Live Responsibly: Foster Accountability
5. Refine Professionalism: Act Ethically
6. Refine Professionalism: Improve Critical Thinking
7. Refine Professionalism: Participate Collaboratively
8. Refine Professionalism: Practice Effective Communication

## High Impact Practices

1. Technology-Enhanced Learning: this course will incorporate digital technologies like gamification, virtual reality experiences, or simulations. In addition, you will create technology-enhanced products such as ePortfolios, multimedia presentations, or other e-products to showcase your learning.
2. Work-Based Learning: this course applies your learning to your desired profession by working in industry placements such as internships, practicums, clinicals, or co-ops.

## Program Outcomes

1. Apply healthcare and technological science principles to the perioperative environment
2. Maintain principles of sterile technique in the surgical environment
3. Provide a safe, efficient, and supportive environment for the patient
4. Prepare the patient, operating room and surgical team for the preoperative phase
5. Perform intraoperative case management in the scrub role
6. Perform postoperative case management
7. Function as an ethical, legal, and professional member of the healthcare team as determined by governing bodies

## Course Competencies

1. **Demonstrate the assembly, care, and utilization of specialized surgical equipment and supplies with continuous guidance**

### Assessment Strategies

- 1.1. By answering questions that require you to apply knowledge about this competency.
- 1.2. Reflection
- 1.3. Skill Demonstration

### Criteria

- 1.1. you explain the function of specialized surgical equipment and supplies
- 1.2. you demonstrate the assembly of equipment and supplies
- 1.3. you demonstrate the care and handling of equipment and supplies

### Learning Objectives

- 1.a. Perform the assembly of various types of equipment
- 1.b. Execute the use of various types of equipment
- 1.c. Perform the care of various types of equipment
- 1.d. Perform perioperative instrument handling
- 1.e. Execute proper transport of instrumentation

## **2. Integrate principles of surgical conscience for various surgical procedures**

### **Assessment Strategies**

- 2.1. Clinical Evaluation
- 2.2. Reflection
- 2.3. Demonstration
- 2.4. Self Assessment

### **Criteria**

- 2.1. you maintain sterile technique
- 2.2. you identify and correct breaks in sterile technique
- 2.3. you accept responsibility for your role as a Surgical Technologist

### **Learning Objectives**

- 2.a. Predict actions which compromise sterile technique.
- 2.b. Build proper sterile technique in the perioperative setting.
- 2.c. Review actions and initiate measures to correct breaks in sterile technique within the perioperative setting.
- 2.d. Identify and performs the tasks which are relevant to the surgical technologist role in the perioperative setting.
- 2.e. Identify the key elements related to developing a surgical conscience.

## **3. Evaluate surgical team member roles**

### **Assessment Strategies**

- 3.1. Reflection
- 3.2. Clinical Evaluation

### **Criteria**

- 3.1. observation includes the roles the team members play
- 3.2. observation includes the tasks performed
- 3.3. observation includes how the team member relates to other members on the team
- 3.4. observation includes how the team member interacts with the Surgical Technologist

### **Learning Objectives**

- 3.a. Define the varying roles each member of the perioperative team performs during the surgical experience.
- 3.b. Identify effective communication techniques utilized by the surgical team members within the perioperative setting.
- 3.c. Explain principles of teamwork in the surgical environment.

## **4. Perform preoperative case management for various surgical procedures with continuous guidance**

### **Assessment Strategies**

- 4.1. Clinical Evaluation
- 4.2. Demonstration
- 4.3. Skill Demonstration
- 4.4. Self Assessment
- 4.5. Reflection

### **Criteria**

- 4.1. you use preference card to pull assigned cases
- 4.2. you select items to be opened
- 4.3. you arrange furniture in the OR for assigned case
- 4.4. you bring in needed equipment for the assigned case
- 4.5. you place sterile supplies on appropriate surfaces for opening
- 4.6. you assist with opening supplies
- 4.7. you open your own gown and gloves
- 4.8. you scrub for assigned case
- 4.9. you gown and glove self
- 4.10. you gown and glove other team members
- 4.11. you set up sterile field

- 4.12. you prepare sharps for use
- 4.13. you perform counts with circulator
- 4.14. you hand drapes to the surgeon or assistant
- 4.15. you assist with draping
- 4.16. you prepare for assigned cases
- 4.17. you use medical terminology
- 4.18. you provide your name and title to surgical team

#### **Learning Objectives**

- 4.a. Identify the supplies, equipment, and instrumentation needed for a procedure with continuous guidance.
- 4.b. Perform sterile technique when opening sterile supplies in preparation of a surgical procedure with continuous guidance.
- 4.c. Identify and correct contaminations during the opening process with continuous guidance.
- 4.d. Build principles of asepsis while gowning and gloving self and team members with continuous guidance.
- 4.e. Perform the process of organizing the sterile field with continuous guidance.
- 4.f. Execute the principles of economy of motion with continuous guidance.
- 4.g. Build principles of spatial awareness when organizing the sterile field with continuous guidance.
- 4.h. Perform finalization of the sterile field with continuous guidance
- 4.i. Identify the modifications to setting up the sterile field that must be taken when a special circumstance occurs.
- 4.j. Perform the procedure for counting sponges, sharps, instruments, and accessory items on the field with continuous guidance.
- 4.k. Execute the principles of asepsis when preparing drapes, draping the patient, furniture, and equipment with continuous guidance.

### **5. Perform maintenance of the sterile field for various surgical procedures with continuous guidance**

#### **Assessment Strategies**

- 5.1. Clinical Evaluation
- 5.2. Performance
- 5.3. Self Assessment
- 5.4. Reflection

#### **Criteria**

- 5.1. you put up light handles, cautery and suction as needed
- 5.2. you have sponges in place
- 5.3. you hand sharps safely and correctly
- 5.4. you hand instruments safely and correctly
- 5.5. you prepare sutures and needles safely and correctly
- 5.6. you handle solutions safely
- 5.7. you label all solutions and or medications
- 5.8. you respond to surgeon effectively
- 5.9. you communicate with circulator effectively
- 5.10. you maintain organized sterile tables
- 5.11. you handle specimens appropriately
- 5.12. you initiate counts at appropriate times
- 5.13. you perform counts following facility policy
- 5.14. you prepare dressings as needed
- 5.15. you begin to anticipate surgeon's needs

#### **Learning Objectives**

- 5.a. Identify fire safety precautions during the intraoperative surgical phase with continuous guidance.
- 5.b. Build aseptic technique and identify breaks in sterile technique in the perioperative setting with continuous guidance.
- 5.c. Build anticipation of surgeon and team needs with continuous guidance.
- 5.d. Identify methods for monitoring the sterile field with continuous guidance.
- 5.e. Perform the principles of asepsis for basic wound care techniques with continuous guidance.
- 5.f. Execute correct instrument passing with continuous guidance.
- 5.g. Execute management of medications with continuous guidance.
- 5.h. Perform sharps safety with continuous guidance.
- 5.i. Identify proper suture selection, preparation, handling, and cutting techniques with continuous guidance.

- 5.j. Perform proper placement, handling, loading, and disposal of surgical needles with continuous guidance.
- 5.k. Perform techniques for handling various types of specimens with continuous guidance.
- 5.l. Perform surgical counts with continuous guidance.

## **6. Perform breakdown of the sterile field for various surgical procedures with continuous guidance**

### **Assessment Strategies**

- 6.1. Clinical Evaluation
- 6.2. Reflection
- 6.3. Skill Demonstration

### **Criteria**

- 6.1. you maintain sterile field until patient leaves the room
- 6.2. you handle all materials safely
- 6.3. you place sharps in proper container
- 6.4. you handle all biohazardous waste following facility policy
- 6.5. you follow policy regarding aftercare of instruments
- 6.6. you remove gown and gloves properly
- 6.7. you use non-sterile gloves for clean up
- 6.8. you follow policy for waste and linens disposal
- 6.9. you transport dirty cart to designated area
- 6.10. you follow policy for room cleanup
- 6.11. you return unneeded supplies to proper places

### **Learning Objectives**

- 6.a. Identify the preparation of surgical dressings with continuous guidance
- 6.b. Imitate the application of surgical dressings with continuous guidance
- 6.c. Perform breakdown of the sterile field with continuous guidance
- 6.d. Perform safe actions with disposal of all biohazard sharps with continuous guidance.
- 6.e. Execute standard precautions to all biohazard products during handling with continuous guidance.
- 6.f. Perform disinfection of the surgical environment with continuous guidance.
- 6.g. Execute correct doffing of surgical attire and properly dispose with continuous guidance.
- 6.h. Perform hand washing at designated scrub sink with continuous guidance.

## **7. Demonstrate professionalism within the professional standards of conduct and AST guidelines for best practice**

### **Assessment Strategies**

- 7.1. Clinical Evaluation
- 7.2. Reflection
- 7.3. Self Assessment

### **Criteria**

- 7.1. you arrive on time to receive assignments
- 7.2. you notify instructor of absence before scheduled time
- 7.3. you are dressed in surgical attire
- 7.4. you demonstrate critical thinking
- 7.5. you ask questions appropriate to the assignment as needed
- 7.6. you research assigned procedures
- 7.7. you practice ethical behaviors
- 7.8. you communicate effectively
- 7.9. you help maintain a safe environment for the surgical patient
- 7.10. you follow facility policies regarding the operating room environment
- 7.11. you work as a member of a team
- 7.12. you accept constructive comments and feedback from others
- 7.13. you maintain a positive attitude
- 7.14. you seek out learning experiences
- 7.15. you accept assignments willingly
- 7.16. you develop effective relationships with members of the team

### **Learning Objectives**

- 7.a. Build principles of communication in the perioperative setting
- 7.b. Execute appropriate body language and non-verbal communication
- 7.c. Build principles of teamwork in the perioperative environment.

**8. Assist with nonsterile duties for various surgical procedures with continuous guidance**

**Assessment Strategies**

- 8.1. Clinical Evaluation
- 8.2. Reflection
- 8.3. Skill Demonstration

**Criteria**

- 8.1. you check the patient's identification
- 8.2. you help move the patient onto the OR bed
- 8.3. you participate in operation site identification during "time out" as defined by facility
- 8.4. you assist anesthesiologist as needed
- 8.5. you assist with positioning the patient
- 8.6. you assist with skin preparation following facility guidelines
- 8.7. you assist with attaching cautery, suction and other equipment as needed
- 8.8. you pay attention to the progress of the procedure
- 8.9. you respond to requests from the sterile team as appropriate
- 8.10. you respond to emergencies as they present themselves
- 8.11. you assist with securing dressings at end of procedure
- 8.12. you assist with moving the patient to the recovery cart
- 8.13. you help with room turn over

**Learning Objectives**

- 8.a. Identify operating room preparation
- 8.b. Identify the monitoring of patient vitals
- 8.c. Transport patient to operating room with patient transport device
- 8.d. Identify patient transfer from stretcher to the surgical table
- 8.e. Perform the connection of accessory devices to the patient.
- 8.f. Identify patient positioning.
- 8.g. Identify surgical skin prep.
- 8.h. Identify patient transfer from the surgical table to stretcher.