ESSENTIALS OF SURGICAL ASEPSIS SKILLS
Course Syllabus

Course Number: STAP 0144B
OHLAP Credit: No
OCAS Code: None
Course Length: 42 Hours
Career Cluster: Health Science
Career Pathway: Therapeutic Services
Career Major(s): Surgical Technologist (Accredited Program)

Pre-requisite(s): Introduction to Surgical Technology

Course Description: This course will introduce the student to the principles and practices of aseptic technique, scrubbing, gowning, gloving, sterilization and disinfection. Upon completion of this course, the student will be able to discuss and demonstrate the principles of aseptic technique.

Textbooks:
- Surgical Technology Principles and Practice 6th Ed. by Joanna Kotcher Fuller, Elsevier Sanders (2013).

Online Resources:
- Blackboard

Course Objectives:

A. Apply terms related to asepsis.¹
B. Discuss sources of contamination.¹
C. Demonstrate sterile technique.¹
D. Demonstrate the steps of a hand wash.¹
E. Identify the preliminary preparations for the surgical scrub.¹
F. Demonstrate the steps of the surgical scrub.¹
G. Employ sterile techniques during the surgical scrub¹
H. Employ sterile technique when gowning and gloving self and when assisting other team members.¹
I. Identify the methods of processing items during terminal disinfection and/or sterilization.¹
J. Identify the concepts of microbial barriers.¹
K. Compare and contrast the materials used for creating microbial barriers.¹
L. Identify variables related to the sterilization process and the materials to be processed.¹
M. Compare and contrast methods of sterilization.¹
N. Identify process monitoring devices and methods.¹

¹ ODCTE Objective
All unmarked objectives are TTC instructor developed.
Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures:

1. Students are graded on lab practice and performance.
2. Each course must be passed with eighty (80%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.
4. Career Major grades established during coursework are a major criteria in successfully obtaining certification

In order to be eligible to progress to Surg Tech Clinical Practicum II and III, surgical technology students must maintain a “B” (80%) or better grade in all theory/clinical courses and clinical skills.

Laboratory Grading for Essentials of Surgical Asepsis:

- Skill Tests 80%
- Laboratory Evaluations 20%

In order to progress throughout the course of study, the student must:

- Achieve a final grade of at least 80% in all theory/clinical courses and clinical skills tests.
- Mastery of all surgical skill competencies with no mistakes. Pop Quizzes/Tests may be given periodically and are not eligible for make-up.
- When a student fails to maintain a final grade of at least 80% in theory/clinical courses or on clinical skill tests, he/she must re-enroll in the course. Tuition will be assessed.
- A course or clinical may be retaken only one time.
- A student who fails the same course twice will be dropped from the program.
- A student who fails two separate courses, theory and/or clinical, will be dropped from the program.
- A student will only be allowed to change to another class/cohort one time.

In order for students to maintain clinical eligibility they must:

- Maintain a “B” (80%) or better in all theory/clinical courses and clinical skills.
- Provide current immunizations required by clinical partners.
- Have a current CPR card.

Description of Classroom, Laboratories, and Equipment:

Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.
The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Tulsa Community College. See program counselor for additional information.

The student must maintain a grade point average of 3.0 or better.

**Chapter Learning Objectives and Content Outlines**

**Principles Of Asepsis**

- Recognize appropriate surgical attire
- Explain the concept of barriers.
- Apply terms related to asepsis.
- Discuss sources of contamination.
- Explain the relationship between personal hygiene and aseptic technique.
- Demonstrate sterile technique.

**Content Outline:**

- Terms and Definitions of Aseptic Technique
- Activities that promote Asepsis
- Modes of Contamination
- Personal Hygiene
- Proper attire and Restricted areas
- PPE
- Integrity, Content, Exposure, and Expiration of Sterile items
- Various Sterile packaging
- Sterile boundaries when opening supplies
- Boundaries of Sterile vs. non Sterile OR furniture
- Surgical Conscience
- Addressing Breaks in Aseptic Technique
- Lab hours to demonstrate, practice, and test on the skills of opening supplies
- Lab hours to demonstrate ability to follow proper protocol for OR attire and follow traffic patterns of a sterile environment

**Scrubbing, Gowning, Gloving Chapter Objectives:**

- Recognize appropriate surgical attire
- Explain the concept of barriers.
- Apply terms related to asepsis.
- Discuss sources of contamination.
- Explain the relationship between personal hygiene and aseptic technique.
- Explain reasons for gowning and gloving.
- Perform a mechanical surgical scrub.
- Perform a brushless surgical hand scrub.
- Dry hands after a surgical scrub.
- Perform self-gowning technique from a Back table.
- Perform self-gowning technique from a Mayo Stand
- Self-glove using the closed technique.
- Perform assisted-gowning technique.
- Perform assisted-gowning tie and closure.
- Replace contaminated gown and gloves mid-procedure.
• Self-glove using the open technique.
• Remove contaminated gown and gloves.

**Content Outline:**
- Terms and Definitions of Scrubbing, Gowning, and Gloving
- Surgical Scrub Supplies
- Scrubbing Procedures
- Surgical Gowning and Gloving
- Open Gloving

**Sanitation, Sterilization and Disinfection Chapter Objectives:**
- Apply terms related to asepsis.
- Discuss sources of contamination.
- Explain the relationship between personal hygiene and aseptic technique.
- Describe in sequential order the three levels of contamination prevention.
- Identify the methods of packaging items for sterilization.
- Describe methods of sterilization.
- Demonstrate packaging a separate wrapped item.
- Demonstrate assembling a rigid container for sterilization.
- Demonstrate wrapping surgical towels in paper for sterilization.
- Demonstrate wrapping a container in paper for sterilization.

**Content Outline:**
- Terms and Definitions of Sanitation, Sterilization, and Disinfection.
- Purpose of Cleaning
- Instrument preparation and wrapping
- Sterilization Considerations
- Sterilization Agents