

**Health Science Career Cluster**  
**Surgical Technician II**  
**Course Number: 25.44800**

**Course Description:**

The goal of this course is to provide fundamental surgical technician skills and knowledge to include the knowledge, skills, and attitudes necessary to succeed in the Surgical Technology profession; including safety, infection control, pharmacology, surgical equipment, perioperative procedures, instruments, and sterilization. Students will have the opportunity to explore careers in the operating room and the education required at each level. The prerequisites for this course are Introduction to Healthcare Science, Essentials of Healthcare, and Surgical Technician I.

*The ultimate goal of the Surgical Services is to prepare students to move on into post-secondary education and training and/or to possibly take the Tech in Surgery assessment, which could potentially result in an industry credential after completion of any required clinical experience. Individual states may have regulations that could impact certification and what a surgical technician can do in that state.*

**Course Standard 1**

**HS-STII-1**

**Demonstrate employability skills required by business and industry.**

The following elements should be integrated throughout the content of this course.

- 1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.
- 1.2 Demonstrate creativity with multiple approaches to ask challenging questions resulting in innovative procedures, methods, and products.
- 1.3 Exhibit critical thinking and problem solving skills to locate, analyze, and apply information in career planning and employment situations.
- 1.4 Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity.
- 1.5 Apply the appropriate skill sets to be productive in a changing, technological, and diverse workplace to be able to work independently, interpret data, and apply team work skills.
- 1.6 Present a professional image through appearance, behavior, and language.

**Course Standard 2**

**HS-STII-2**

**Utilize fundamental surgical technician knowledge to perform as a member of an operating room team including scope of practice, legal and ethical regulations, HIPPA, and safety and infection control.**

- 2.1 Demonstrate general knowledge of the operating room (OR).
- 2.2 Demonstrate proper procedures for donning surgical scrub, gown and gloves.
- 2.3 Demonstrate performing patient prep procedures, including physical care and psychological preparation.
- 2.4 Apply medical law, ethics, and HIPPA regulations.
- 2.5 Identify and describe strategies to decrease legal liability.
- 2.6 Differentiate scope of practice for members of the OR team.
- 2.7 Demonstrate response to various surgical complication and disasters in accordance with facility protocols.

### Course Standard 3

#### HS-STII-3

##### **Utilizing simulation, apply basic surgical technician skills in the operating room.**

- 3.1 Identify surgical procedures using correct terminology.
- 3.2 Describe safe practice techniques in regards to perioperative routines, patient transportation, and positioning.
- 3.3 Demonstrate proper patient and skin preparation for common surgical procedures.
- 3.4 Show proper draping for common surgical procedures.
- 3.5 Identify and describe surgical instruments and equipment.
- 3.6 Demonstrate proper operative exposure and illumination for common surgical procedures.
- 3.7 Classify basic types and locations of surgical incisions.
- 3.8 Discuss radiological, EKG, and lab data utilized by medical personnel relating to the surgical procedures
- 3.9 Illustrate proper handling and labeling of specimens.
- 3.10 Demonstrate simulated preparation of suture and implant materials.
- 3.11 Discuss techniques for hemostasis.
- 3.12 Analyze the roles of the surgical team, and what occurs in grafting and transplant cases
- 3.13 Demonstrate simulated proper count, post-operative, and clean-up routines.

### Course Standard 4

#### HS-STII-4 Instruments and Sterilization

##### **Perform common simulated tasks related to the role of surgical technician in the operating room.**

- 4.1 Identify common surgical instruments by correct name.
- 4.2 Demonstrate proper handling and use of common surgical instruments, proper arrangement of surgical instruments, and proper method of instrument decontamination and sterilization.

### Course Standard 5

#### HS-STII-5

##### **Correlate the elements, action, and use of medications and anesthetic agents used by medical personnel during the perioperative experience.**

- 5.1 Differentiate drug groups by class and action.
- 5.2 Perform basic metric conversions.
- 5.3 Discuss administration, preparation, and handling of drugs by appropriate medical personnel in the operating room.

### Course Standard 6

#### HS-STII-6

##### **Analyze the role of the circulator and how the surgery tech can assist with circulator duties.**

- 6.1 Distinguish between the job duties of sterile surgery personnel and non-sterile circulating personnel.
- 6.2 Assist (simulated in lab) the primary circulator to meet the needs of the patient and the surgical team in the perioperative experience.
- 6.3 Simulate in the lab a demonstration of a circulator's duties that a surgical technician might be asked to perform based on facility protocol.