

## COMPETENCY-BASED OCCUPATIONAL FRAMEWORK FOR REGISTERED APPRENTICESHIP

# Surgical Technologist (Alternate Title: Operating Room Specialist)

ONET Code: 29-2055.00

RAPIDS Code: 1051CB

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*Updated:*

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# Work Process Schedule

WORK PROCESS SCHEDULE <sup>1</sup>		ONET Code: 29-2055.00	
Surgical Technologist (Alternate Title: Operating Room Specialist)		RAPIDS Code: 1051CB	
<b>JOB TITLE: Surgical Technologist (Alternate Title: Operating Room Specialist)</b>			
<b>Company Contact: Name</b>			
<b>Address:</b>	<b>Phone</b>	<b>Email</b>	
<b>Apprenticeship Type:</b> <input checked="" type="checkbox"/> <b>Competency-Based</b> <input type="checkbox"/> <b>Time-Based</b> <input type="checkbox"/> <b>Hybrid</b>	<b>Prerequisites</b> 1-year accreditation program or Associate's Degree Background Check Documentation of Immunizations Current Healthcare Provider CPR certification		
<b>JOB FUNCTION 1: Prepare for Surgical Procedures</b>			
Competencies	Core or Optional	RTI	OJT
A. Prepare the operating room environment according to the surgical procedure	Core		
B. Prepare for the specific procedure	Core		
C. Establish sterile field	Core		
D. Take preoperative precautions	Core		
E. Prepare the patient and surgical team	Core		
F. Participate in surgical time out	Core		
<b>JOB FUNCTION 2: Perform Intraoperative Duties/Activities</b>			

<sup>1</sup> See full framework for certifications and occupational pathways, cross-cutting competencies, and detailed job functions.

Competencies	Core or Optional	RTI	OJT
A. Maintain the operating room environment according to surgical procedure	Core		
B. Provide the surgical team members with supplies required for the procedure	Core		
C. Assemble and test materials and specialty equipment during surgery	Core		
D. Anticipate needs during surgery	Core		
E. Provide intraoperative assistance when delegated by a surgeon	Core		
F. Handle medications, solutions, and specimens appropriately	Core		
G. Perform closing sponge, needle, and instrument counts	Core		
<b>JOB FUNCTION 3: Perform Postoperative Procedures and Room Turnover</b>			
Competencies	Core or Optional	RTI	OJT
A. Conduct postoperative patient care	Core		
B. Dispose of waste	Core		
C. Conduct room turnover after surgery	Core		
<b>JOB FUNCTION 4: Assist Circulator</b>			
Competencies	Core or Optional	RTI	OJT
A. Assist with/provide patient care	Core		
B. Assist with supplies and equipment	Core		
<b>JOB FUNCTION 5: Recognize and Demonstrate Knowledge of the Maintenance of Surgical Supplies/Equipment</b>			
Competencies	Core or Optional	RTI	OJT
A. Wash and decontaminate instruments	Core		
B. Ultrasound, milk, rinse and dry instruments	Core		
C. Assemble instrument trays	Core		
D. Prepare for and operate sterilizers	Core		

<b>JOB FUNCTION 6: Provide Safe Environment</b>			
Competencies	Core or Optional	RTI	OJT
A. Maintain a safe preoperative environment	Core		
B. Maintain a safe intraoperative environment	Core		
C. Maintain a safe postoperative environment	Core		
D. Practice precautions with critical equipment	Core		
E. Practice general safety precautions	Core		
<b>JOB FUNCTION 7: Perform Departmental Responsibilities</b>			
Competencies	Core or Optional	RTI	OJT
A. Receive/participate in dept. communications	Core		
B. Inventory supplies	Core		
C. Rotate supplies	Core		
D. Order supplies	Core		
E. Create/update surgeon preference cards	Core		
F. Attend inter/intra departmental committees	Core		
G. Maintain cleanliness of department	Core		
<b>JOB FUNCTION 8: Maintain Professional Responsibility</b>			
Competencies	Core	RTI	OJT
A. Maintain institutional competencies	Core		
B. Practice cost containment	Optional		
C. Attend/contribute to in-service classes	Core		
D. Evaluate new equipment	Optional		
E. Precept new employees/students	Core		
F. Participate in performance improvement activities	Core		

Related Technical Instruction Plan

Note: Accredited instruction plans for surgical technologists vary across training institutions. The plan described below is an example of coursework required for a basic degree in Surgical Technology. Other plans, especially those for an Associate Degree in Surgical Technology, can include additional core curricula.

<b>COURSE NAME: GENERAL ANATOMY AND PHYSIOLOGY</b>	<b>Course Number</b>
	<b>Hours: 60 total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>General Anatomy and Physiology</b> examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization, of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients.</p>	
<b>COURSE NAME: MEDICAL TERMINOLOGY</b>	<b>Course Number</b>
	<b>Hours: 45 total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>Medical Terminology</b> focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis is on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology, is included.</p>	
<b>COURSE NAME: WRITTEN COMMUNICATION</b>	<b>Course Number</b>
	<b>Hours: 45 total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>Written Communication</b> develops writing skills which include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Written Communication also develops critical reading and thinking skills through the analysis of a variety of written documents.</p>	

<b>COURSE NAME: SURGICAL TECHNOLOGIST FUNCTIONAL MICROBIOLOGY</b>	<b>Course Number</b>
	<b>Hours: 15 Total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>Surgical Technologist Functional Microbiology</b> introduces general classification, structure and physiology of microorganisms. Students learn the relationship between microorganisms and the human host as well as microbes in the hospital environment. Examines the study of the disease process, transmission of disease and methods of controlling microbial growth.</p>	
<b>COURSE NAME: SURGICAL TECHNOLOGY INTRODUCTION</b>	<b>Course Number</b>
	<b>Hours: 60 total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>Surgical Technology Introduction</b> provides the foundational knowledge of infection control and asepsis. Legal and ethical issues encountered in the healthcare environment are explored. Simulated laboratory practice enables the learner to develop beginning technical skills</p>	
<b>COURSE NAME: SURGICAL TECHNOLOGY FUNDAMENTALS</b>	<b>Course Number</b>
	<b>Hours: 90 Total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>Surgical Technology Fundamentals</b> includes the basic clinical skills needed by the Surgical Technologist in the scrub role. Learners develop skills in identifying basic instrumentation, supplies, drains, catheters, dressings and sponges. Includes practice experience in creating a sterile field, draping, passing instruments and supplies, performing counts and preparing supplies. Builds upon and reinforces the role of the Surgical Technologist as a member of the operating room team. Discusses care of the patient before, during and after surgery with emphasis on surgical wounds, wound closure materials, and vital signs.</p>	
<b>COURSE NAME: SURGICAL TECHNOLOGY SURGICAL PROCEDURES</b>	<b>Course Number</b>
	<b>Hours: 60 Total</b>
<b>LEARNING OBJECTIVES</b>	
<p><b>Surgical Technology Surgical Procedures</b> provides the foundational knowledge of surgical core and specialty procedures. Examines the pathophysiology, diagnostic interventions and surgical interventions for a variety of surgical procedures. Incorporates integration of basic health sciences and technical knowledge to complete a plan of action for a surgical procedure.</p>	

<b>COURSE NAME: SURGICAL TECHNOLOGY CLINICAL</b>	<b>Course Number</b>
	<b>Hours: 165 Total</b>
<b>LEARNING OBJECTIVES</b>	
<p>In <b>Surgical Technology Clinical</b>, students will apply basic surgical theories, principles, and procedural techniques in the operating room. Students begin to function as team members under the guidance of the instructor and authorized clinical personnel. Surgical rotation case requirements are documented. Further experience in a clinical setting allows the student to continue to improve technical skills while accepting more responsibilities during surgical procedures. Enhances the student's technical experience and employee skills. Serves as a transition between student and employee. Application of advanced skills for the entry-level Surgical Technologies in the clinical setting.</p>	