

Name: \_\_\_\_\_

**Surgical Technology/Technologist**

**Directions:**

Evaluate the student by entering the appropriate number to indicate the degree of competency. The rating for each task should reflect employability readiness rather than the grades given in class.

**Student Rating Scale:**

- 0 No Exposure** – no experience/knowledge in this area
- 1 Knowledge Received** – area is understood
- 2 Limited Skill** – has exposure, but additional training and supervision is required
- 3 Moderately Skilled** – limited training and supervision may be required, but progress is being made
- 4 Skilled** – no additional training is required; the competency has been mastered and knowledge can be transferred to other applications

0	1	2	3	4	A. Orientation to Surgical Technology	Notes:
					1. Explain the importance of client confidentiality	
					2. Discuss legal and ethical responsibilities and liabilities	
					3. Demonstrate good communication skills	
					4. Describe the history of surgery	
					5. Discuss the role and responsibilities of the surgical technologist	
					6. Discuss hospital hierarchy and structure (e.g., interdepartmental relations)	
					7. Identify the different types of health care facilities	
					8. Discuss the importance of the role of all team members	
					9. Describe the physical environment of the operating room (e.g., air conditioning, humidity, and ventilation)	
					10. Demonstrate proper body mechanics	
					11. Demonstrate basic computer skills	
					Other:	

0	1	2	3	4	B. Terminology	Notes:
					1. Use proper pronunciation and spelling	
					2. Describe the basic structure of words	
					3. Use abbreviations and symbols	
					4. Describe the body and its systems	
					Other:	

0	1	2	3	4	C. Anatomy and Physiology	Notes:
					1. Explain the body as a coordinated whole	
					2. Describe the relationship between cells, tissues, and organs	

					3. Describe the normal anatomy and physiology of the skeletal system	
					4. Describe the normal anatomy and physiology of the lymphatic system	
					5. Describe the normal anatomy and physiology of the integumentary system	
					6. Describe the normal anatomy and physiology of the nervous system	
					7. Describe the normal anatomy and physiology of the muscular system	
					8. Describe the normal anatomy and physiology of the special senses	
					9. Describe the normal anatomy and physiology of the endocrine system	
					10. Describe the normal anatomy and physiology of the blood	
					11. Describe the normal anatomy and physiology of the vascular circulatory system	
					12. Describe the normal anatomy and physiology of the cardiac circulatory system	
					13. Describe the normal anatomy and physiology gastrointestinal system	
					14. Describe the normal anatomy and physiology of the urinary system	
					15. Describe the normal anatomy and physiology of the reproductive system	
					16. Describe the normal anatomy and physiology of the respiratory system	
					17. Discuss the disease process (pathophysiology) that contributes to the need for surgical intervention	
					Other:	

<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>D. Microbiology and Wound Healing</b>	<b>Notes:</b>
					1. Describe the history of microbiology	
					2. Explain cell structures and functions of microorganisms	
					3. Describe the relationship between humans and microorganisms	
					4. Demonstrate universal precautions	
					5. Explain the process of infection	
					6. Explain human defense mechanisms against microorganisms (e.g., general and immunology)	
					7. Explain principles of sanitation, sterilization, and disinfection	
					8. Explain the process of wound healing	
					9. Compare the various controls / monitors that are used to ensure sterility	
					10. Discuss the modes of transmission of microorganisms and the specific decontamination process	
					Other:	

0	1	2	3	4	<b>E. Pharmacology</b>	<b>Notes:</b>
					1. Identify pharmacology terminology	
					2. Perform basic math, decimals, and fractions	
					3. Perform metric, apothecary, household, and temperature conversions	
					4. Demonstrate the proper care and handling of drugs and solutions	
					5. List the common drugs used in surgery	
					6. Explain the adverse effects, actions, uses, and routes of administration of common drugs used in surgery	
					7. Identify the types of anesthesia	
					8. Explain the effects of anesthesia on the surgical client	
					Other:	

0	1	2	3	4	<b>F. Client Care Concepts</b>	<b>Notes:</b>
					1. Explain the physical, spiritual, and psychological needs of the client	
					2. Explain preoperative routines to include the Patient's Bill of Rights, consent for surgery, client identification, and client transportation	
					3. Demonstrate the proper positioning, prepping, and draping of a surgical client	
					4. Demonstrate the proper care and handling of specimens	
					5. Explain thermoregulatory devices	
					6. Explain homeostasis and blood replacement	
					7. Measure vital signs	
					8. Demonstrate urinary catheterization	
					9. Identify emergency situations	
					10. Demonstrate appropriate actions in an emergency	
					11. Perform basic life support (BLS) for health care providers	
					12. Explain proper documentation procedures	
					Other:	

0	1	2	3	4	<b>G. Asepsis and the Surgical Environment</b>	<b>Notes:</b>
					1. Demonstrate asepsis	
					2. Demonstrate proper surgical conscience	
					3. Wear proper surgical attire (e.g., no acrylic nails, no dangling earrings, and cover hair)	
					4. Maintain sterile technique	

					5. Demonstrate sterilization methods, equipment, and monitoring	
					6. Clean and disinfect the surgical attire properly	
					7. Explain how to safely handle hazardous chemicals used in the operating room	
					Other:	

0	1	2	3	4	H. Basic Case Preparation and Procedures	Notes:
					1. Open and prepare supplies properly	
					2. Care for and handle equipment and supplies properly	
					3. Identify basic instruments	
					4. Describe the importance of accurate counts	
					5. Demonstrate proper scrubbing, gowning, and gloving	
					6. Explain the types, characteristics, and uses of sutures	
					7. Demonstrate safe handling and uses of sharps, sutures, and stapling devices	
					Other:	

### CLINICAL

0	1	2	3	4	I. Surgical Procedures	Notes:
					1. Demonstrate the proper use of case-specific resources (e.g., Surgeon's Preference Card)	
					2. Explain the indications for surgery	
					3. Demonstrate specific set-ups and scrub roles for the ear, eyes, nose, and throat	
					4. Demonstrate specific set-ups and scrub roles for obstetrics and gynecology	
					5. Demonstrate specific set-ups and scrub roles for urology	
					6. Demonstrate specific set-ups and scrub roles for orthopedics	
					7. Demonstrate specific set-ups and scrub roles for general surgical procedures	
					8. Demonstrate specific set-ups and scrub roles for minimally invasive surgical procedures (e.g., Chole lap, lap appendectomy, and LAVH)	
					9. Demonstrate specific set-ups and scrub roles for vascular surgery	
					10. Demonstrate specific set-ups and scrub roles for plastic surgery	
					11. Demonstrate specific set-ups and scrub roles for neurological surgery	
					12. Describe basic surgical procedures	
					13. Explain expected outcomes and possible complications of basic surgical procedures	
					14. Describe common types of incision or wound closures	

					15. Identify the types and applications of proper dressings	
					Other:	

0	1	2	3	4	J. Personal and Professional Relations	Notes:
					1. Demonstrate teamwork	
					2. Describe the benefits of the professional organization	
					3. Discuss the steps for achieving and maintaining certification	
					Other:	

0	1	2	3	4	K. Leadership Competencies**	Notes:
					1. Demonstrate an understanding of SkillsUSA-VICA, its structure, and activities	
					2. Demonstrate an understanding of one's personal values	
					3. Perform tasks related to effective personal management skills	
					4. Demonstrate interpersonal skills	
					5. Demonstrate etiquette and courtesy	
					6. Demonstrate effectiveness in oral and written communication	
					7. Develop and maintain a code of professional ethics	
					8. Maintain a good professional appearance	
					9. Perform basic tasks related to securing and terminating employees	
					10. Perform basic parliamentary procedures in a group meeting	
					Other:	

**\*\*NOTE: These competencies are addressed in the Missouri SkillsUSA-VICA Curriculum Guide lessons**