

Standards Correlations

Surgical Technologist II (8352)

Task	SOL Correlations	HOSA Competitive Events (High School)
Demonstrating Personal Qualities and Abilities		
Demonstrate creativity and innovation.	English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1	
Demonstrate critical thinking and problem solving.	English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1	

Task	SOL Correlations	HOSA Competitive Events (High School)
	Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1	
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Demonstrating Interpersonal Skills		
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1	
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	

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Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1	
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrating Professional Competencies		
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4	
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1	

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Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8	
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10	
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	

Task	SOL Correlations	HOSA Competitive Events (High School)
	Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1	
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1	
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1	

Task	SOL Correlations	HOSA Competitive Events (High School)
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Examining All Aspects of an Industry		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	
Examine aspects of management within an industry/organization.		
Examine aspects of financial responsibility within an industry/organization.		
Examine technical and production skills required of workers within an industry/organization.		
Examine principles of technology that underlie an industry/organization.		
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine community issues related to an	History and Social Science: GOVT.16	

Task	SOL Correlations	HOSA Competitive Events (High School)
industry/organization.		
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16	
Addressing Elements of Student Life		
Identify the purposes and goals of the student organization.		
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Identify Internet safety issues and procedures for complying with acceptable use standards.		
Exploring Work-Based Learning		

Task	SOL Correlations	HOSA Competitive Events (High School)
Identify the types of work-based learning (WBL) opportunities.		
Reflect on lessons learned during the WBL experience.		
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
Duty Area		
Demonstrate procedures of a surgical technologist from start to finish in a perioperative setting.	English: 12.1 History and Social Science: GOVT.1, GOVT.16	
Display organizational skills.	History and Social Science: GOVT.1	
Explain the effects of a variety of medications on preoperative, intraoperative, and postoperative conditions.	English: 12.5 History and Social Science: WHII.4	
Describe types of anesthesia.	English: 12.5 History and Social Science: VUS.14, WHII.14	
Describe mechanical surgical techniques and related safety issues.	English: 12.5 History and Social Science: VUS.14, WHII.14	

Task	SOL Correlations	HOSA Competitive Events (High School)
Describe thermal surgical techniques and related safety issues.	English: 12.5 History and Social Science: VUS.14, WHII.14	
Describe laparoscopic surgical techniques and related safety issues.	English: 12.5 History and Social Science: VUS.14, WHII.14	
Describe ultrasonic surgical techniques and related safety issues.	English: 12.5 History and Social Science: VUS.14, WHII.14	
Describe radiologic surgical techniques and related safety issues.	English: 12.5 History and Social Science: VUS.14, WHII.14	
Examine emerging surgical techniques.	English: 12.5 History and Social Science: VUS.14, WHII.14	
Identify ramifications of surgical implants.	English: 12.3	
Explain the importance of the patient's operative consent, the preoperative checklist, and other preoperative documentation, as appropriate.	English: 12.5 History and Social Science: GOVT.1	<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Knowledge Test: Medical Law and Ethics
Assist with patient transfer and positioning.		
Simulate insertion, connection, and removal of an indwelling Foley catheter.		<p>Health Professions Events</p>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> ○ Clinical Nursing
Perform skin-preparation procedures.		
Verify safe environment for the patient.	Science: CH.1	
Create and maintain the sterile field.		
Set up instrumentation and perform preoperative surgical count.		
Measure and pour solutions.		
Drape patient for surgery.		
Perform intraoperative surgical counts.		
Prepare and pass instruments.		
Prepare and handle suture material.		
Assemble electro-surgical unit (ESU) and other hemostatic equipment/drugs.		
Prepare tissue/culture specimens for lab.		
Assemble drains and equipment.		

Task	SOL Correlations	HOSA Competitive Events (High School)
Demonstrate the safe handling of sharps.	English: 12.3 History and Social Science: VUS.14, WHII.14	
Anticipate the needs of the team.	History and Social Science: GOVT.16	
Protect the sterile field.		
Perform closing and final surgical counts.		
Apply sterile dressings.		
Transfer the patient to a stretcher.		Health Science Events ○ Medical Terminology
Measure suction container contents.		Health Science Events ○ Medical Terminology
Perform postoperative cleanup procedures.		Health Science Events ○ Medical Terminology
Prepare instruments for decontamination/sterilization.		Health Science Events ○ Medical Terminology
Demonstrate terminal disinfection.		Health Science Events

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> ○ Medical Terminology
Disassemble electrosurgical (ESU) unit and other hemostatic equipment.		<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology
Display therapeutic communication skills.	History and Social Science: GOVT.16	<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Medical Law and Ethics ○ Knowledge Test: Transcultural Health Care
Communicate with co-workers and patients about concerns related to surgery, sexuality, and death and dying.	<p>English: 12.1</p> <p>History and Social Science: GOVT.11, GOVT.16</p>	<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Transcultural Health Care
Apply basic surgical techniques in general surgery.	English: 12.5	<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Pathophysiology

Task	SOL Correlations	HOSA Competitive Events (High School)
		<p>Leadership Events</p> <ul style="list-style-type: none"> ○ Medical Photography <p>Teamwork Events</p> <ul style="list-style-type: none"> ○ HOSA Bowl
Apply basic surgical techniques in obstetric and gynecologic surgery.		<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Pathophysiology <p>Leadership Events</p> <ul style="list-style-type: none"> ○ Medical Photography <p>Teamwork Events</p> <ul style="list-style-type: none"> ○ HOSA Bowl
Apply basic surgical techniques in otorhinolaryngology surgery.		<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Pathophysiology <p>Leadership Events</p>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> ○ Medical Photography <p style="text-align: center;">Teamwork Events</p> <ul style="list-style-type: none"> ○ HOSA Bowl
Apply basic surgical techniques in orthopedic surgery.		<p style="text-align: center;">Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Pathophysiology <p style="text-align: center;">Leadership Events</p> <ul style="list-style-type: none"> ○ Medical Photography <p style="text-align: center;">Teamwork Events</p> <ul style="list-style-type: none"> ○ HOSA Bowl
Apply basic surgical techniques in genitourinary surgery.		<p style="text-align: center;">Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Pathophysiology <p style="text-align: center;">Leadership Events</p>

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> ○ Medical Photography Teamwork Events ○ HOSA Bowl
Apply basic surgical techniques in other specialized medical areas.		<p>Health Science Events</p> <ul style="list-style-type: none"> ○ Medical Terminology ○ Knowledge Test: Pathophysiology <p>Leadership Events</p> <ul style="list-style-type: none"> ○ Medical Photography <p>Teamwork Events</p> <ul style="list-style-type: none"> ○ HOSA Bowl
Demonstrate leadership qualities.	History and Social Science: GOVT.1	<p>Teamwork Events</p> <ul style="list-style-type: none"> ○ Biomedical Debate ○ Community Awareness ○ Creative Problem Solving
Develop a procedure log.		

Task	SOL Correlations	HOSA Competitive Events (High School)
Develop a professional résumé.	English: 12.3, 12.5, 12.6, 12.7	Leadership Events <ul style="list-style-type: none"> ○ Interviewing Skills ○ Job-Seeking Skills
Describe the application process.	English: 12.3, 12.5, 12.6, 12.7	Leadership Events <ul style="list-style-type: none"> ○ Interviewing Skills ○ Job-Seeking Skills
Explain important factors in completing a job application.	English: 12.5	Leadership Events <ul style="list-style-type: none"> ○ Interviewing Skills ○ Job-Seeking Skills
Identify qualities evaluated during a job interview.	English: 12.3 History and Social Science: GOVT.1, GOVT.16	Leadership Events <ul style="list-style-type: none"> ○ Interviewing Skills ○ Job-Seeking Skills
Demonstrate interview strategies.	English: 12.5, 12.8 History and Social Science: VUS.14, WHII.14	Leadership Events <ul style="list-style-type: none"> ○ Interviewing Skills ○ Job-Seeking Skills
Describe factors important for job retention.	English: 12.3 History and Social Science: GOVT.1	Leadership Events <ul style="list-style-type: none"> ○ Interviewing Skills

Task	SOL Correlations	HOSA Competitive Events (High School)
		<ul style="list-style-type: none"> ○ Job-Seeking Skills
Describing the Opioid Crisis		
Describe the history and current state of the opioid crisis in the United States.	English: 12.5	
Describe the history and current state of the opioid crisis in Virginia.	English: 12.5, 12.8	
Define the pharmacological components and common uses of opioids.	English: 12.3, 12.8	
Examining Key Factors of Drug Addiction		
Examine the science of addiction.	English: 12.5	
Explain prevention and early intervention strategies.	English: 12.5, 12.8	
Identify addiction and its behavioral elements, as defined by the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).	English: 12.5	
Describe the treatment models of addiction therapy.	English: 12.5	
Describe the medication management antidote used to prevent fatal opioid overdoses.	English: 12.5, 12.8	
Understanding Pain Management Protocols		

Task	SOL Correlations	HOSA Competitive Events (High School)
Explain the science of physiological and mental pain.	English: 12.3, 12.5	
Describe the diagnostic tools used in developing pain management plans.	English: 12.5	
Describe pain treatment options available to various populations of patients.	English: 12.5, 12.8	
Describe the effects of opioid dependency on the human body systems.	English: 12.5	
Explain the mechanism and physical effects of opioids on the human body.	English: 12.5	
Explain the use of opioids in practice settings, the role of opioids in pain management, and risk factors associated with the use of the medication.	English: 12.5	
Describe the withdrawal and tapering side effects of opioid use.	English: 12.5	
Describe storage and disposal options for opioids.	English: 12.5, 12.8	
Explain community resources for education about opioid use.	English: 12.5	
Working with Patients and Caregivers		

Task	SOL Correlations	HOSA Competitive Events (High School)
Describe key communication topics involving opioids for patients.	English: 12.5	
Describe communication topics for caregivers and family members.	English: 12.5	