

# Medical Education and Training Campus (METC)

## METC Surgical Technologist Program

Army	Phase I 301-68D10	Operating Room Specialist (MOS 68D10)
Army	Phase II 301-68D10	Operating Room Specialist (MOS 68D10)
Navy	Phase I B-301-0133	Surgical Technologist (HM-8483)
Navy	Phase II B-301-0233	Surgical Technologist (HM-8483)
Air Force	Phase I L5AQJ4N131 01AA	Surgical Service Apprentice, (AFSC 4N1X1)

## Curriculum Plan



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Fort Sam Houston, Texas 78234  
Effective Date: 30 March 2015

**Supersedes:**  
METC Surgical Technologist Course, dated 9 January 2013

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## Change Record

<b>Item to Change</b>	<b>Description</b>	<b>Date Approved</b>
Curriculum Plan	CP was updated with post validation changes	3 Jun 2013
Program Consolidation	Curriculum Review	5 Jun 2014
Program Consolidation	Resource Requirements Analysis	17 Oct 2014
Effective Date	Program Effective Date	30 Mar 2015

Note: Any time there is a change to the Curriculum Plan; annotate the change number and approval date to the Change Record.

## **Section 1: General Program Information**

### **Program Description:**

The METC Surgical Technologist Program provides enlisted personnel from multi-services, selected civilians and foreign nationals with a basic knowledge of Surgical Technology. Surgical Technologists are allied health professionals who are an integral part of the medical team providing surgical care to patients in a variety of settings. The Surgical Technologist works under the supervision of licensed medical personnel to facilitate safe and effective surgical procedures. The Surgical Technologist Program provides both simulated and clinical training in various aspects of Perioperative care. Subjects include Anatomy and Physiology, Introduction to the Surgical Environment, Microbiology, Surgical Pharmacology, Surgical Supplies and Equipment, Functions of the Sterile and Non-Sterile Team Member, Basic Life Support and Basic Surgical Technologist Skills. Outcomes-based practice, performance improvement and safety techniques are emphasized throughout the program. Instruction and practice in medical ethics, patient care, and an extensive low fidelity surgery simulation prepares students to transition to a clinical setting. Lecture, demonstration, e-learning materials, simulations, and laboratory practice are blended and utilized during the didactic phase of training. Clinical training may occur at military or civilian treatment facilities. Clinical training includes kinesthetic instruction, case studies and participation in a myriad of surgical specialties and settings. The program consists of lectures, group activities, demonstrations, hands-on instruction and clinical practice, and may include computer-based or blended learning options. Practical exercises and computerized or written examinations are used to assess accumulation and retention of knowledge and skills. The instructional design for this program is Group Lock Step.

### **Enrollment Data:**

Minimum Enroll: AF – 1 / Navy – 1 / Army – 30

Maximum Enroll: AF – 7 / Navy – 18 / Army – 80

Programmed: AF – 92 / Navy – 195 / Army – 300

Entry Interval: AF – Every 3 weeks / Navy – Every 3 weeks / Army – Random

### **Program Goal(s):**

The Surgical Technologist Program will prepare graduates to function as entry-level Surgical Technologists in fixed and deployable medical facilities, performing duties to facilitate the safe and effective conduct of surgical procedures. Graduates will demonstrate: acceptable knowledge-based competencies, technical (psychomotor) proficiency in all skills required to fulfill the role of entry-level surgical technologist; and professional behaviors consistent with military/employer expectations and in accordance with National Standards for Surgical Technology.

### **AF SHRED-OUT Courses:**

L5AQJ4N131B01AA, L5AQJ4N131C01AA, L5AQJ4N131D01AA

### **Security Classification:**

Unclassified

### **Instructional Design:**

Group Lock Step

**Accreditation Statement(s):**

This program is evaluated for recommended credit by the American Council on Education (ACE) Military Evaluations Program. This is a Community College of the Air Force credit awarding program; graduates of the program are eligible to receive CCAF credits. This program is also accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of *Accreditation Review Council on Education in Surgical Technology and Surgical Assisting* (ARC-STSA). The Medical Education and Training Campus, Fort Sam Houston, Texas assumed sponsorship of the program on 24 January 2011.

American Council on Education (ACE)

[www.acenet.edu/](http://www.acenet.edu/)

Council on Occupational Education (COE)

[www.council.org](http://www.council.org)

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

[www.caahep.org](http://www.caahep.org)

*Accreditation Review Council on Education in Surgical Technology and Surgical Assisting* (ARC-STSA) [www.arcst.org](http://www.arcst.org)

**Student Prerequisites:**

Air Force specific: See the Education & Training Course Announcements (ETCA) Site. <https://etca.randolph.af.mil/default1.asp>

Army specific: See DA Pam 611-21 and MOS Prerequisites.

<https://www.atrrs.army.mil/atrrscc/prerequisites.aspx>

See also: AR 614-200 Chap 4, Table 4-1 for Service Remaining Requirement.

Navy specific: See Catalog of Navy Training Courses (CANTRAC).

<https://app.prod.cetars.training.navy.mil/cantrac/vol2.html>

Must have completed course COURSE 300-0010, HM BASIC

**All Services:**

All Services: Minimum high school graduate or GED. Minimum aptitude, on the Armed Services Vocational Aptitude Battery (ASVAB) of 91 for Skills Technical (ST) (Army); Arithmetic Reasoning (AR) (written) score of 110 (Navy) are recommended; General Score (G44) (Air Force).

**Army-Specific:**

Active Army CPL/SPC non-promotable and below, National Guard and Army Reserve SSG and below, and DOD civilians. Active Army (AA) and Reserve Component (RC) Soldiers holding MOS 68 (91) A, 68 (91) K, 68 (91)P, 68 (91)V, and 68 (91)WM6 will not be considered. No aversion to the sight of internal organs or blood; no history of chronic or

recurrent skin disorders; and no allergic conditions to cleaning agents, antiseptics, or disinfectants. Must be able to stand for long periods of time, and have no temporary disability including pregnancy or postpartum complications at anytime during the course. Enlisted women who are pregnant must be processed IAW AR 635-200.

**Air Force-Specific:**

Access “myPers” through the Air Force Portal (CAC Card login required) Enter “The Air Force Enlisted Classification Directory” in the myPers Search.

**Navy-Specific:**

Course 300-0010, HM Basic. Latex sensitivity, dermatological disease of the hands and arms, or recurrent infections is disqualification for selection. Must be physically qualified for transfer per MANMED and ENLISTED TRANSMAN. Applicant must be fully qualified to perform all duties required of the NEC worldwide: wherever a billet or a mobilization requirement exists. Must be high school graduate or GED equivalent. No waivers accepted. Pay grade E1-E4. E-5 waiver accepted.

**Program Synopsis by Course:**

This program consists of multiple courses. All courses must be completed successfully to pass this program.

**Phase I      Surgical Technologist Program**

**BIOL 101      Anatomy and Physiology**

This course provides in-depth instruction into, Introduction to Anatomy and Physiology as well as Pharmacology and Anesthesia. Lessons are comprised of lecture and practical laboratory time using models and virtual computer programs. This includes identification of structures, interrelationships of systems, and cellular / organism physiology. The instructional design for this course is Group Lock Step.

Prerequisite(s): Completion of METC in Processing and METC Administrative Requirements.

**SURG 101      Introduction to Surgical Technology**

This course provides an introduction to the roles and responsibilities of the Surgical Technologist. An overview will be conducted of the Medical Education and Training Campus (METC) and Service Policies and Procedures, Student Evaluation and Administration Plan (SEAP), and instructional resources and materials. A number of selected topics will be introduced to include History and Transformation of Surgical Technology, Introduction to the Surgical Suite, Environmental Control in the Operating Room, Safety, and Risk Management. The instructional design for this course is Group Lock Step.

Prerequisite(s): Completion of BIOL 101

## **SURG 102 Surgical Supplies and Equipment**

This course will provide an overview of Sterile Processing Department (SPD), Surgical Supplies and Equipment as well as Minimally Invasive Surgery. The function, assembly, use, and care of equipment in the surgical environment will be addressed. The instructional design for this course is Group Lock Step.

Prerequisites: Completion of SURG 101.

## **SURG 103 Non-Sterile Duties of the Surgical Technologist**

This course provides in-depth coverage of theory and practice in positioning the surgical patient, completing skin preparation, care and handling of surgical specimens, preparation of the operating room, monitoring fluid loss/replacement and carrying out the functions of the assistant circulator including the use of surgical forms and documentation. The instructional design for this course is Group Lock Step.

Prerequisites: Completion of SURG 102.

## **SURG 104 Sterile Duties of the Surgical Technologist**

This course provides an in-depth coverage of theory and practice in surgical hand scrubbing, gowning and gloving, duties of the scrub technologist including sterile field/instrument set-up, preparation and handling of sharps, performing counts, surgical draping and utilizing concepts of Team Strategies & Tools to Enhance Performance & Patient Safety (STEPPS). The instructional design for this course is Group Lock Step.

Prerequisites: Completion of SURG 103.

## **SURG 105 Low Fidelity Surgery Simulation**

During this course students will perform the duties and responsibilities of the scrub (Sterile) and assistant circulator (Non-sterile) during a low fidelity simulated appendectomy. The instructional design for this course is Group Lock Step.

Prerequisites: Completion of SURG 103 and SURG 104. For the Basic Life Support portion, the instructor to student ratio is 1:6.

## **SURG 106 Surgical Specialties**

This course provides an overview and reference of procedures encountered in various surgical specialties such as general surgery, OB/GYN, orthopedic, plastic and reconstructive etc. and the related requirements which the student will encounter in a clinical setting.

Prerequisites: Completion of SURG 103 and SURG 104.



## **Phase II Surgical Technologist Clinical**

### **SURG 201-A Army-Specific Surgical Clinical**

A health-related work-based learning experience that enables the student to apply surgical and circulating scrub theory, skills, and concepts including sterile processing department. Direct supervision is provided by the clinical personnel. The instructional design for this course is Group Lock Step.

Prerequisites: Successful completion of the Army Phase I 301-68D Operating Room Specialist course. Instructor to Student Ratio: 1:10.

### **SURG 201-N Navy-Specific Surgical Clinical**

A health-related work-based learning experience that enables the student to apply surgical and circulating scrub theory, skills, and concepts including sterile processing department. Direct supervision is provided by the clinical personnel. The instructional design for this course is Group Lock Step.

Prerequisites: Successful completion of the Navy Phase I B-301-0033 Surgical Technologist course. Instructor to Student Ratio: 1:6. \*Independent Case Study has a 1:1 Instructor to Student Ratio.\*

## **Army Service Specific**

### **ARMY 101 Army Readiness Training and STX**

To participate in a Soldier Training Exercise (STX) that is a culmination of common core, Warrior Tasks, Battle Drills (WTBD), and job specific tasks with an emphasis on the field Operating Room (O.R.) and Sterile Processing Supply (SPS). The instructional design for this course is Group Lock Step. Instructor to Student Ratio is 1:8.

## **Air Force Service Specific**

### **USAF 101 Air Force Medical Service (AFMS) / Expeditionary Medical Readiness Course (EMRC)**

AFMS training provides enlisted personnel entering the Aerospace Medical Service Apprentice (AMSA) career field with the apprentice level knowledge and skills needed to perform at this level. Curriculum includes Air Force Medical Doctrine, AEF Aspects, Career Field Education and Training Plan, AFSC Duties, Special Duties, AFSC Shred outs, and the AMSA scope of practice.

EMRC is designed to ensure all members with a fully qualified AFSC maintain adequate skills to perform their duties during wartime, humanitarian assistance, homeland security/defense, and disaster response contingencies. Required training is every 20 months. The instructional design for this course is Group Lock Step. Instructor to Student Ratio is 1:7.

### Program Length Consolidated Courses

Course	Course Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
BIOL 101	Anatomy and Physiology	60	.75	0	4	.25	0	0	65
SURG 101	Introduction to Surgical Technology	23	7.5	0	4	6.5	0	0	41
SURG 102	Surgical Supplies and Equipment	13	7.25	0	3	6.75	0	0	30
SURG 103	Non-sterile Duties of the Surgical Technologist	10	16.75	0	3	14.25	0	0	44
SURG 104	Sterile Duties of the Surgical Technologist	9	22.75	0	2	18.25	0	0	52
SURG 105	Low Fidelity Surgery Simulation	3	33	0	2	34	0	0	72
SURG 106	Surgical Service Specialties	33	1.75	0	4	1.25	0	0	40
<b>Total</b>		151	89.75	0	22	81.25	0	0	344

### Program Length Air Force-Specific Courses

Course	Course Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
USAF101	AFMS	7.75	0	0	.5	0	0	0	8.25
USAF101	EMRC	7.5	8	0	0	0	.5	0	16
<b>Total</b>		15.25	8	0	.5	0	.5	0	24.25

\*AFMS is AF specific and not part of the 344 Phase I hours, EMRC is also not part of the 344 hours and is trained at Camp Bullis.

## Program Length Army-Specific Courses

Course	Course Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
ARMY 101	Army Readiness Training & STX	8	16	0	0	0	0	0	24
<b>Total</b>		8	16	0	0	0	0	0	24

\*Army STX is Army specific and not part of the 344 Phase I hours.

\*Army Program length includes 2 days or 16 hours administrative METC Indoctrination as part of the instructional program prior to curriculum start. Time is reflected in ATRRS.

Key		
Didactic	Did	Instructor/self-paced formats for dissemination of information
Lab/Practical	Lab/ Prac	Demonstration/hands-on practice
Clinical	Clin	Patient care or other supervised work experience
Written or Practical Test	WTest PTest	Formal written/hands-on student assessments, includes time for pre-test review & post-test critique
Other	Other	All other formats for instruction
Required Activities	Req'd	All other non-instruction activities

## Program Instructor – Student Ratios

Course	Course Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.
BIOL 101	Anatomy and Physiology	1:25	1:5		1:25	1:5		
SURG 101	Introduction to Surgical Technology	1:25	1:5		1:25	1:5		
SURG 102	Surgical Supplies and Equipment	1:25	1:5		1:25	1:5		
SURG 103	Non-sterile Duties of the Surgical Technologist	1:25	1:5		1:25	1:5		
SURG 104	Sterile Duties of the Surgical Technologist	1:25	1:5		1:25	1:5		
SURG 105	Low Fidelity Surgery Simulation	1:25	1:5		1:25	1:2		
SURG 106	Surgical Service Specialties	1:25	1:5		1:25	1:5		
	<b>TOTAL</b>							

\*SURG 105 has 3 hours that are 1:6 for BLS\*

**Program Length Peacetime:**

		METC	Army	Navy	Air Force	Coast Guard
<b>Phase I Hours<sup>1</sup></b>	Didactic	151	151	151	151	N/A
	Lab/Practical	89.75	89.75	89.75	89.75	
	Written Test <sup>2</sup>	22	22	22	22	
	Practical Test/PPC	81.25	81.25	81.25	81.25	
	Other (STX/EMRC)		24		16	
	AFMS				8.25	
	Required Activities					
		344	368	344	368.25	
<b>Clinical/ Phase II Hours</b>	Didactic			18		
	Lab/Practical					
	Clinical		384	680	256	
	Written Test			11		
	Practical Test					
	Other (admin)		16	4		
	Required Activities					
<b>Total Hours</b>		344	768	1057	624.25	

**Program Length Mobilization/Wartime:**

		METC	Army	Navy	Air Force	Coast Guard
<b>Phase I Hours</b>	Didactic					
	Lab/Practical					
	Written Test					
	Practical Test					
	Other					
	Required Activities					
<b>Clinical/ Phase II Hours</b>	Didactic					
	Lab/Practical					
	Clinical					
	Written Test					
	Practical Test					
	Other					
	Required Activities					
<b>Total</b>						

<sup>1</sup> An 8 hour training day is the standard; exceptions are noted

<sup>2</sup> Time for end of course critique included in hours for last written exam in each course

<b>Key</b>		
Didactic	Did	Instructor/self-paced formats for dissemination of information
Lab/Practical	Lab/ Prac	Demonstration/hands-on practice
Clinical	Clin	Patient care or other supervised work experience
Written or Practical Test	WTest PTest	Formal written/hands-on student assessments, includes time for pre-test review & post-test critique
Other	Other	All other formats for instruction
Required Activities	Reqd	All other non-instruction activities

### **Faculty Qualifications:**

The Program Director and Clinical Coordinator must meet all instructor qualifications. Program Director must be a qualified faculty member with a Master's of Science in Nursing, board certified (CNOR) instructor while the Clinical Coordinator must have general faculty qualifications and be ranked E-6 or above.

Phase I Instructors must: (1) complete an approved Service-specific instructor training course, (2) hold or earn the minimum of an associate degree within the teaching discipline, from a regionally or nationally accredited postsecondary institution, within the required timeframe, (3) complete the METC Faculty and Staff Orientation, (4) complete the METC Teaching Internship, and (5) complete and maintain subject-matter qualification. Successfully attain Certified Surgical Technologist (CST) certification within 3 months of reporting to duty at Fort Sam Houston. Successfully attain Certified Surgical Technologist (CST) certification upon commencement of instruction.

### **Faculty Qualifications Phase II:**

Army-Specific: Full-time 68D Phase II Faculty: provide instruction, supervision mentorship and evaluation of all 68D Phase II students assigned. May be military (SGT or above) or civilian. Two positions at each facility: 68D primary clinical instructor and senior clinical instructor.

**\*\*NOTE\*\***When there are changes in 68D Phase II Faculty, a CV must be e-mailed and an LOA must be faxed to the OR Branch as soon as faculty changes have occurred. The LOA is signed by the Chief, Hospital Education Section (or equivalent).

## Section 2: Course Descriptions and Objectives

### BIOL 101 Anatomy and Physiology

**Course Description:** An overview will be conducted of the Medical Education and Training Campus (METC) and Service Policies and Procedures, Student Evaluation and Administration Plan (SEAP), and instructional resources and materials. This course provides in-depth instruction into Anatomy and Physiology, Pharmacology, and Anesthesia comprised of lecture and practical laboratory time using models, virtual computer programs and actual cadavers. This includes identification of structures, interrelationships of systems, and cellular / organism physiology.

**Course Goals:** Upon completion of this course, Student will gain a comprehensive knowledge of the structures and functions of the human body systems. Identify the structures and explain the functions of selected anatomical components as well as an understanding of surgical pharmacology and anesthesia principles.

#### Distribution of Contact Hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	Introduction to Anatomy and Physiology	52			2				54
2	Pharmacology & Anesthesia	8	.75		2	.25			11
<b>Total</b>		<b>60</b>	<b>.75</b>	<b>0</b>	<b>4</b>	<b>.25</b>	<b>0</b>	<b>0</b>	<b>65</b>

#### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
Unit 1: Introduction to Anatomy and Physiology					
1.1.1	Surgical Terminology	Utilize prefixes, word roots, and suffixes to create medical terms related to surgery and anatomy and physiology to include pronunciation.	C2		

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
1.2.1	Introduction to Anatomy and Physiology	Define Anatomy and Physiology (A&P) terminology, how cells and tissues function and basic knowledge of surgical incisions, wound classification, and wound healing.	C1		
1.3.1	Body Systems & Physiology	Define the human body systems' structures and functions.	C1		
1.4.1	Special Sense Organs	Select the facts and specification of Ear, Eye, Nose, and Throat (EENT) anatomy and the special sense organs.	C1		
Unit 2: Surgical Pharmacology and Anesthesia					
2.1.1	Body Systems & Physiology	Define the human body systems structures and functions as well as Surgical Pharmacology and Anesthesia facts.	C1		
2.2.1	Surgical Pharmacology	Employ the principles and steps of procedure for working with pharmacological agents in a surgical setting.	C2		
2.2.2	Surgical Pharmacology	Demonstrate safe and proper handling of medications and solutions onto the sterile field.		P1	
2.3.1	Surgical Anesthesia	Identify basic facts and terms associated with assisting anesthetic delivery and management of patient complications.	C1		

## SURG 101 Introduction to Surgical Technology

### Course Description:

This course provides an introduction to the roles and responsibilities of the Surgical Technologist. A number of selected topics will be introduced to include History and Transformation of Surgical Technology, Introduction to the Surgical Suite, Environmental Control in the Operating Room, Safety, and Risk Management.

### Course Goals:

Students will acquire a comprehensive understanding of the Surgical Technologist (ST) Program as well as a number of METC and Service policies.

### Distribution of Contact Hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	History and Transformation of Surgical Technology	1							1
2	Introduction to the Surgical Suite	13	2.25		2	1.75			19
3	Environmental Control in the Operating Room	9	5.25		2	4.75			21
<b>Total</b>		<b>23</b>	<b>7.5</b>	<b>0</b>	<b>4</b>	<b>6.5</b>	<b>0</b>	<b>0</b>	<b>41</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
Unit 1 History and Transformation of Surgical Technology					
1.1.1	History and Transformation of Surgical Technology	Select the basic facts regarding various policies applicable to the Surgical Technology Program.	C1		
Unit 2 Introduction to the Surgical Suite					
2.1.1	Introduction to the Surgical Suite	List the primary members of the surgical team and ancillary support staff and their duties.	C1		
2.2.1	Legal/Ethical Aspects of Surgery	Given a case history, list the legal and ethical violations and describe the reporting protocol.	C1		



Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
2.3.1	Transportation of the Patient	Describe the processes required for patient movement to and from the Operating Room.	C2		
2.3.2	Transportation of the Patient	Perform the processes required for patient movement to and from the Operating Room		P2	
2.4.1	Preoperative Preparation of the Patient	Outline the steps for the preoperative preparation of the surgical patient.	C1		
2.5.1	Death and Dying	Describe attitudes, beliefs, and classifications regarding death and dying.	C1		
2.6.1	Special Needs Patients	Identify special needs of the patients.	C1		
2.7.1	Preoperative Preparation of the Patient	Perform preoperative preparation of the surgical patient.		P2	
2.8.1	Introduction to Computers	Identify basic concepts of computer usage.	C1		
<b>Unit 3 Environmental Control in the Operating Room</b>					
3.1.1	Introduction to Microbiology	Discuss factors that enable pathogens to invade a host and cause disease.	C2		
3.2.1	Prevention/Infection Control & Standard Precautions	Given a case study explain the proper infection control standards, to prevent the risk of infection to the surgical patient or the surgical team members.	C2		
3.3.1	Personal Hygiene & O.R. Attire	Describe the standards as they pertain to surgical attire.	C2		
3.3.2	Personal Hygiene & O.R. Attire	Demonstrate the standards as they pertain to surgical attire.		P2	
3.4.1	O.R. Disinfection	Identify cleaning agents and steps required for Operating Room (O.R.) sanitation.	C1		
3.5.1	O.R. Disinfection	Clean the O.R.		P1	

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
3.6.1	O.R. Safety and Emergencies	Identify the appropriate actions to prevent or reduce the potential hazards to staff and the patient.	C1		
3.6.2	O.R. Safety and Emergencies	Display the appropriate actions to prevent or reduce the potential hazards to staff and the patient.		P1	

## SURG 102 Surgical Supplies and Equipment

### Course Description:

This course will provide an overview of surgical equipment and supplies to include minimally invasive surgery. The function, assembly, use, and care of equipment in the surgical environment will be addressed.

### Course Goals:

Students will gain an understanding of the application of selected surgical equipment and supplies. Students will gain an understanding of minimally invasive surgery principles.

### Distribution of contact hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	Surgical Supplies & Equipment	10	7.25		1.5	6.75			25.5
2	Minimally Invasive Surgery	3			1.5				4.5
<b>Total</b>		<b>13</b>	<b>7.25</b>	<b>0</b>	<b>3</b>	<b>6.75</b>	<b>0</b>	<b>0</b>	<b>30</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psych-motor	Affective
Unit 1: Surgical Supplies and Equipment.					
1.1.1	Operating Room Equipment	Distinguish selected O.R. equipment.	C2		
1.2.1	O.R. Equipment Application	Apply the facts, characteristics, and principles of usage for selected O.R. equipment.	C2		
1.2.2	O.R. Equipment Application	Operate selected O.R. equipment IAW the manufacturer's user manual (site specific).		P2	
1.3.1	Operating Room Supplies	List supplies used for a specified operative procedure.	C1		

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psych-motor	Affective
1.4.1	Introduction to SPD/CMS/CSS	State the mission and purpose of SPD/CMS/CSS	C1		
1.5.1	Surgical Instrumentation	Identify displayed surgical instruments and their functions.	C2		
1.6.1	Sterilization Methods and Equipment	State the processes used to sterilize instruments and supplies in the operating room.	C1		
1.6.2	Sterilization Methods and Equipment	Sterilize instruments and supplies in the O.R.		P2	
Unit 2: Minimally Invasive Surgery.					
2.1.1	Minimally Invasive Surgery	State the purpose of endoscopic surgery.	C1		
2.1.2	Minimally Invasive Surgery	List the advantages & disadvantages of endoscopic vs. open surgery.	C1		
2.2.1	Robotics, Laser Safety and Applications	Outline the principles of robotics / laser safety measures.	C1		

## SURG 103 Non-Sterile Duties of the Surgical Technologist

### Course Description:

This course provides in-depth coverage of theory and practice in positioning the surgical patient, completing skin preparation, care and handling of surgical specimens, preparation of the operating room, monitoring fluid loss/replacement and carrying out the functions of the assistant circulator including the use of surgical forms and documentation.

### Course Goals:

Students will gain a comprehensive understanding of positioning the surgical patient, completing skin preparation, care and handling of surgical specimens, preparation of the operating room, monitoring fluid loss/replacement and carrying out the functions of the assistant circulator including the use of surgical forms and documentation.

### Distribution of contact hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	Functions of the Non-Sterile Team Member	10	16.75		3	14.25			44
<b>Total</b>		<b>10</b>	<b>16.75</b>	<b>0</b>	<b>3</b>	<b>14.25</b>	<b>0</b>	<b>0</b>	<b>44</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
Unit 1: Functions of the Non-Sterile Team Member					
1.1.1	Principles of Aseptic Technique	Identify breaks in aseptic technique principles	C1		
1.1.2	Principles of Aseptic Technique	Create a sterile field using the principles of aseptic technique		P2	
1.2.1	Activities of the Circulator	Determine the duties of the assistant circulator.	C2		
1.3.1	Positioning of the Patient	Explain the principles of proper patient positioning.	C2		

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
1.4.1	Activities of the Circulator	Perform the duties of the assistant circulator.		P2	
1.5.1	Positioning of the Patient	Position a simulated patient in the supine, lithotomy, prone, and lateral positions.		P2	
1.6.1	Surgical Skin Prep/Foley Catheterization	Outline the steps required for Foley catheterization of male and female patients.	C1		
1.6.2	Surgical Skin Prep/Foley Catheterization	Determine the objectives, methods, supplies and equipment for surgical skin preparation	C2		
1.6.3	Surgical Skin Prep/Foley Catheterization	Perform the surgical skin prep for various surgical procedures.		P2	
1.7.1	Surgical Records	Identify required documentation within a surgical patient record.	C1		
1.7.2	Surgical Records	Verify required documentation within a surgical patient record.	C1		
1.8.1	Care and Handling of Surgical Specimens	Discuss the preparation of surgical specimens for pathology.	C2		
1.8.2	Care and Handling of Surgical Specimens	Prepare surgical specimens for pathology.		P2	
1.9.1	Sponge, Sharps and Instrument Counts	Explain procedures for surgical counts.	C2		
1.9.2	Sponge, Sharps and Instrument Counts	Perform surgical counts.		P2	
1.10.1	Monitoring Fluid/Blood loss and Replacement	Explain methods of monitoring fluid loss and replacement during surgical procedure.	C2		

## SURG 104 Sterile Duties of the Surgical Technologist

### Course Description:

This course provides an in-depth coverage of theory and practice in surgical hand scrubbing, gowning and gloving, duties of the scrub technologist including sterile field/instrument set-up, preparation and handling of sharps, performing counts, and surgical draping.

### Course Goals:

Students will gain a comprehensive understanding of in-depth coverage of theory and practice in surgical hand scrubbing, gowning and gloving, duties of the scrub technologist including sterile field/instrument set-up, preparation and handling of sharps, performing counts, and surgical draping.

### Distribution of contact hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	Functions of the Sterile Team Member	9	22.75		2	18.25			52
<b>Total</b>		<b>9</b>	<b>22.75</b>	<b>0</b>	<b>2</b>	<b>18.25</b>	<b>0</b>	<b>0</b>	<b>52</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
Unit 1: Functions of the Sterile Team Member					
1.1.1	Surgical Hand Scrub	Describe surgical hand and arm scrub.	C2		
1.1.2	Surgical Hand Scrub	Perform the surgical hand and arm scrub.		P2	
1.2.1	Gowning and Gloving	Describe gowning and gloving procedures.	C2		
1.2.2	Gowning and Gloving	Perform gowning and gloving procedures.		P2	
1.3.1	Sterile Field And Instrument Set-Up	Arrange basic instruments and supplies on a sterile field.		P2	
1.4.1	Preparation And Handling of Sharps	Prepare sutures, needles and blades used during surgery.		P2	
1.5.1	Sponge, Sharps and Instrument Counts as Sterile Team	Demonstrate the duties required of a scrub technologist in maintaining sponge, needle, and instrument counts before, during		P2	

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
	Member	and after a simulated surgical procedure.			
1.6.1	Surgical Draping	Employ the principles and techniques for draping a surgical patient.	C2		
1.6.2	Surgical Draping	Perform the duties required of a scrub technologist in selecting, preparing, and draping a simulated patient in a mock surgical procedure.		P2	



## SURG 105 Low Fidelity Surgery Simulation

### Course Description:

During this course, students will perform the duties and responsibilities of the scrub (Sterile) and assistant circulator (Non-sterile) during a low fidelity simulated appendectomy. This unit will allow the student to apply concepts and theories of the ST in a simulated surgical environment. Instructor to student ratio for the Low Fidelity Surgery Simulation requires a 1:2 of the testing portions. For the Basic Life Support portion, the instructor to student ratio is 1:6.

### Course Goals:

Perform the duties and responsibilities of the non-sterile and sterile team members in a selected low fidelity simulated surgery.

### Distribution of contact hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	Simulated Appendectomy	3	33		2	34			72
<b>Total</b>		<b>3</b>	<b>33</b>	<b>0</b>	<b>2</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>72</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
Unit 1: Simulated Appendectomy					
1.1.1	Low Fidelity Simulated Appendectomy	Perform scrub and assistant circulator duties of a surgical technologist.		P2	
1.2.1	Basic Life Support (BLS)	Describe the required steps to perform Basic Life Support (BLS) and Cardiopulmonary Resuscitation (CPR) IAW American Heart Association (AHA) Healthcare Provider (HCP) guidelines.	C2		
1.3.1	Basic Life Support (BLS)	Perform Basic Life Support (BLS) and Cardiopulmonary Resuscitation (CPR) IAW American Heart Association (AHA) Healthcare Provider (HCP) guidelines.		P2	

## SURG 106 Surgical Specialties

### Course Description:

This course provides an overview and reference of procedures encountered in various surgical specialties and the related requirements which the student will encounter in a clinical setting. Various clinical surgical specialties ranging from General Surgery to Pediatric Surgery will be introduced.

### Course Goals:

Student will gain an understanding of the various surgical specialties within an Operating Room.

### Distribution of contact hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest/ PPC	Other	Req'd Act.	Total
1	Surgical Specialties	33	1.75		4	1.25			40
<b>Total</b>		<b>33</b>	<b>1.75</b>	<b>0</b>	<b>4</b>	<b>1.25</b>	<b>0</b>	<b>0</b>	<b>40</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho -motor	Affective
Unit 1: Surgical Specialties					
1.1.1	Surgical Case Worksheet Overview	Reproduce surgical case worksheets on an assigned case.	C1		
1.2.1	General Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology related to scrub/circulator duties during general surgery procedures.	C1		
1.3.1	Obstetrics / Gynecological (OB/GYN) Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during Obstetric and Gynecological surgical procedures.	C1		

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
1.4.1	Orthopedic Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during Orthopedic surgical procedures.	C1		
1.4.2	Orthopedic Surgery	Assist with the application of orthopedic surgical equipment and supplies.		P1	
1.5.1.	Genitourinary (GU) Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during genitourinary surgical procedures.	C1		
1.6.1	Plastic and Reconstructive Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during plastic surgical procedures.	C1		
1.7.1	Cardiothoracic and Peripheral Vascular Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during cardiac, thoracic, peripheral, and vascular surgical procedures.	C1		
1.8.1	Ophthalmic (Eye) Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during Ophthalmic (Eye) surgical procedures.	C1		
1.9.1	Otorhinolaryngologic (Ear, Nose and Throat) Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during Otorhinolaryngologic / Ear, Nose and Throat (ENT) surgical procedures.	C1		
1.10.1	Oral and Maxillofacial (OM) Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during Oral and Maxillofacial (OM) surgical procedures.	C1		

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
1.11.1	Trauma & Emergency Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during trauma and emergency surgical procedures.	C1		
1.12.1	Neurosurgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during neuro-surgical procedures.	C1		
1.13.1	Pediatric Surgery	Name anatomy, tools/instruments, simple facts and terms, and pathophysiology to scrub/circulator duties during pediatric procedures.	C1		
1.14.1	Clinical Training and Employment Skills and Opportunities	Determine the requirements, standards, practices, and opportunities for a successful career in the various roles of a surgical technologist in the clinical setting.	C2		

### Section 3:

## ARMY 101 Army Readiness Training and STX

### Course Description:

This course provides an overview of common core, Warrior Tasks, Battle Drills (WTBD), and Land-based military maneuvers. It also covers logistics of a deployable surgical hospital as well as prepares a stronger Soldier and leader. Also provides job specific tasks with emphasis on the principles of the Operating Room (O.R.) and Sterile Processing Department (SPD). The instructional design for this course is Guided Discussion.

### Course Goals:

Upon completion, the student will gain an understanding of deployment skills and their role in a field hospital's surgical suite and sterile processing and supply areas.

### Distribution of Contact Hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest	Other	Req'd Act.	Total
1	Soldier Specific Training	8							8
2	Pre-Clinical Review		16						16
<b>Total</b>		<b>8</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho- motor	Affective
<b>Unit 1: Soldier Specific Training</b>					
1.1.1	Soldier Specific Training	Discuss duties as a 68D10 under combat conditions	C1		
<b>Unit 2: Pre-Clinical Review</b>					
2.1.1	Entry Level Duties	Perform entry level duties as required of a surgical scrub technician		P2	

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
2.2.1	Sterile Processing Department	Define entry level duties in the sterile processing department, including decontamination of instruments, sterilization processes and assembly of instrumentation and sterile supplies	C1		

## USAF 101 Air Force Medical Service (AFMS), Emergency Medical Readiness Course (EMRC)

### Course Description:

This course ensures all members with a fully qualified AFSC maintain adequate skills to perform their duties during wartime, humanitarian assistance, homeland security/defense, and disaster response contingencies. Air and land-based military maneuvers and logistics of a deployable surgical hospital prepare a stronger Airmen and leader, especially in a deployed status.

### Course Goal(s):

Student will gain emergency medical readiness and deployment skills in a field hospital's surgical suite and sterile processing and supply areas.

### Distribution of Contact Hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest	Other	Req'd Act.	Total
1	AFMS	7.75	0		.5				8.25
2	EMRC	7.5	8				.5		16
<b>Total</b>		<b>15.25</b>	<b>8</b>	<b>0</b>	<b>.5</b>	<b>0</b>	<b>.5</b>	<b>0</b>	<b>24.25</b>

### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho- motor	Affective
<b>Unit 1 USAF AFMS</b>					
1.1.1	Air Force Medical Service (AFMS)	State the components of the Air Force Medical Service.	C1		
1.1.2	Joint Commission	Identify the mission of the Joint Commission as it pertains to the AFMS.	C1		
1.1.3	Career Paths/Progression	Name the steps of career progression for a Surgical Service Apprentice.	C1		
1.1.4	Customer Service	Identify facts and terms related to the professional conduct, customer service and patient relationships.	C1		
<b>Unit 2 USAF EMRC</b>					
2.1.1	Medic Field Training Exercise	Perform the duties of a Service Member and surgical technologist in a field		P1	

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
	Orientation	environment. Conduct Orientation.	C1		
2.2.1	USAF Medical Service Mission/ Doctrine	Identify facts and principles pertaining to USAF Medical Service Mission and Doctrine.	C1		
2.3.1	Combat Stress Control	Identify facts and principles of combat stress control management and Brevity Immediacy Centrality Expectancy Proximity Simplicity (BICEPS).	C1		
2.4.1	Site Selection/Shelter Assembly	Erect an Alaska Small Shelter System/Identify facts and principles of field sanitation, hygiene, and disease prevention.		P1	
2.5.1	Threat and Future Battlefield Environment	Identify facts and principles of foreign and domestic sources of danger to U.S. forces; future battlefield settings, new weaponry and impact to health protection.		P1	
2.6.1	Command, Control, Communication and Medical	Identify facts and principle of systems directly related to day to day operations in support of operational missions.		P1	
2.7.1	Medical Effects of NBC Warfare	Identify medical effects of NBC warfare; Identify facts and principle associated with diagnosing and treating casualties wounded/contaminated by Depleted Uranium.		P1	
2.8.1	Casualty Movement	Demonstrate patient transport by using the correct litter commands; transport sequences and vehicle loading/unloading procedures, proper triage techniques and management of mass		P1	



## Phase II Clinical Hours

### SURG 201-A Army-Specific Surgical Clinical

**Course Description:** This course is a health-related work-based learning experience that enables the student to apply surgical and circulating scrub theory, skills, and concepts as well as sterile processing education. Direct supervision is provided by the clinical personnel. The instructional design for this course is Group Lock Step Prerequisites: Successful completion of the Army Phase I 301-68D Operating Room Specialist course. Instructor to Student Ratio: 1:10.

#### Course Goals:

Upon completion, the student will be able to apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among economic, environmental, social, and legal systems associated with the surgical technologist. Demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork, sterile processing, and appropriate written and verbal communication skills using the terminology of the surgical technologist.

#### Distribution of Contact Hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest	Other	Req'd Act.	Total
1	Army-Specific Surgical Clinical			384			16		400
<b>Total</b>				<b>384</b>			<b>16</b>		<b>400</b>

#### Course Objectives and Levels of Learning:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho- motor	Affective
Unit 1: Army-Specific Surgical Clinical					
1.1	Clinical Practicum	Perform the entry level duties of an operating room specialist including scrub, assistant circulator, workroom, and central material skills		P2	
1.2	Blackboard Testing	Prepare a case study related to surgery and central material supply/service	C2		

## SURG 201-N Navy-Specific Surgical Clinical

### Course Description:

A health-related work-based learning experience that enables the student to apply surgical and circulating scrub theory, skills, and concepts. Direct supervision is provided by the clinical personnel. The instructional design for this course is Group Lock Step.

Prerequisites: Successful completion of the Navy Phase I B-301-0133 Surgical Technologist course. Instructor to Student Ratio: 1:6. For the Independent Case Study portion, the instructor to student ratio is 1:1.

### Course Goals:

Apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among economic, environmental, social, and legal systems associated with the surgical technologist. Demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork, and appropriate written and verbal communication skills using the terminology of the surgical technologist.

### Distribution of contact hours:

Unit #	Unit Title	Did	Lab/ Prac	Clin	WTest	PTest	Other	Req'd Act.	Total
1	Navy-Specific Surgical Clinical	18		680	11				709
2	CST Exam				4				4
<b>Total</b>		<b>18</b>		<b>680</b>	<b>11</b>		<b>4</b>		<b>713</b>

### Course Objectives and Learning Levels:

Learning Objective #	Lesson Name	Lesson Objective	Level of Learning		
			Cognitive	Psycho-motor	Affective
Unit 1: Navy-Specific Surgical Clinical					
1.1	Clinical Practicum	Perform the entry level duties of an operating room specialist including scrub, assistant circulator, workroom, and sterile processing department (SPD) skills		P2	
1.2	Independent Case Study	Describe in detail the step by step procedures for each of the first 50 unique cases as identified by the preceptor	C2		
Unit 2: CST					
2.1	CST Exam		C2		

