

DEPARTMENT OF THE AIR FORCE
Headquarters US Air Force
Washington DC 20330-1000

CHANGE 2
CFETP 4T0X1
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**AFSC 4T0X1
MEDICAL LABORATORY
CAREER FIELD EDUCATION AND TRAINING PLAN**

This change is effective immediately. CFETP 4T0X1, dated 30 November 2013 is changed as follows:

1. Replace STS pages 21 through 32 with the attached STS.
2. After necessary action, file this sheet in the back of the CFETP.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

DOROTHY A. HOGG
Lieutenant General, USAF, NC
Surgeon General

Attachment:
STS

<i>This Block Is For Identification Purposes Only</i>		
Name Of Trainee		
Printed Name (Last, First, Middle Initial)	Initials (Written)	SSAN
Printed Name of Certifying Official and Written Initials		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	

QUALITATIVE REQUIREMENTS

Proficiency Code Key		
	Scale Value	Definition: The individual
Task Performance Levels	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (Extremely Limited)
	2	Can do most parts of the task. Needs only help on hardest parts. (Partially Proficient)
	3	Can do all parts of the task. Needs only a spot check of completed work. (Competent)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (Highly Proficient)
*Task Knowledge Levels	a	Can name parts, tools, and simple facts about the task. (Nomenclature)
	b	Can determine step by step procedures for doing the task. (Procedures)
	c	Can identify why and when the task must be done and why each step is needed. (Operating Principles)
	d	Can predict, isolate, and resolve problems about the task. (Advanced Theory)
**Subject Knowledge Levels	A	Can identify basic facts and terms about the subject. (Facts)
	B	Can identify relationship of basic facts and state general principles about the subject. (Principles)
	C	Can analyze facts and principles and draw conclusions about the subject. (Analysis)
	D	Can evaluate conditions and make proper decisions about the subject. (Evaluation)
Explanations * A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: b and 1b) ** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks. - This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC. X This mark is used alone in the course columns to show that training is required but not given due to limitations in resources. NOTE: All tasks and knowledge items shown with a proficiency code are trained during war time.		

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
1. CAREER LADDER PROGRESSION TR: Air Force Enlisted Classification Directory (AFECD); AFH 36-2618, The Enlisted Force Structure; AFI 36-2101, Classifying Military Personnel (Officer and Enlisted); AFI 36-2649, Voluntary Education Program; AFI 41-104, Professional Board and National Certification Examinations; AFI 44-102, Medical Care Management; AFD 41-1, Healthcare Programs and Resources; AFD 44-1, Medical Operations; CCAF Catalog												
1.1. The airman career ladder and educational opportunities							B	-	-	-	-	-
1.2. 4T0X1 career ladder progression							A	-	-	-	-	-
1.3. 4T0X1 duties							A	-	-	-	-	-
1.4. AFMS/Laboratory service organization and mission							A	-	-	-	B	-
2. MEDICAL READINESS TR: AFI 41-106, Medical Readiness Program Management. NOTE: Initial training is provided in the Emergency Medical Readiness Course (EMRC) conducted at the 59th Training Group, JBSA Ft Sam Houston Texas. Continuing/on-going Medical Readiness training for the individual is the responsibility of each member's unit												
2.1. Biowarfare and bioterrorism TR: Bailey & Scott's Diagnostic Microbiology and Textbook of Diagnostic Microbiology. Tille, P. M. 2014. Elsevier.							B	-	-	B	-	-
2.2. Perform Basic Life Support (BLS) TR: American Red Cross BLS for Healthcare Providers							-	3c	-	-	-	-
3. AF OCCUPATIONAL SAFETY & HEALTH (AFOSH) PROGRAM TR: AFI 91-203, Air Force Consolidated Occupational Safety Instruction; GP 17-A3, Clinical Laboratory Standards Institute (CLSI) Clinical Laboratory Safety												
3.1. Hazards/AFOSH standards							B	-	-	B	-	-
3.2. Safety precautions							-	-	-	B	-	-
3.3. Exercise safety precautions							2b	3c	-	-	-	-
3.4. Accident Reports							B	-	-	B	-	-

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		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
3.5. Safety and chemical hygiene programs							B	-	-	-	-	-
4. PROFESSIONAL AND PATIENT RELATIONSHIPS TR: AFI 44-102, Medical Care Management; DoD 5500.7-R, Joint Ethics Regulation, Chapter 12												
4.1. Professional standards of ethics							B	-	-	B	-	-
4.2. Customer service												
4.2.1. AFMS customer service standards							B	-	-	-	-	-
4.2.2. Identification of key AFMS customers							A	-	-	-	-	-
4.3. Customer care basics							B	-	-	-	-	-
4.4. Listening techniques and nonverbal communication							A	-	-	-	-	-
5. MEDICAL MATERIEL PROCEDURES TR: AFI 41-209, Medical Logistics Support												
5.1. Air Force accountability and responsibility							B	-	-	-	-	-
5.2. Fundamentals of supply and equipment							A	-	-	-	-	-
5.3. Maintain supply resources							a	2b	-	-	-	-
5.4. Methods of procurement							A	-	-	B	-	-
6. SUPERVISION TR: AFH 1, The Airman Handbook; AFH 36-2618, The Enlisted Force Structure; AFI 36-2406, Officer and Enlisted Evaluation Systems; AFI 36-2502, Airman Promotion/Demotion Programs; AFI 36- 2616, Technical Training Requirements Programs (Officer and Enlisted); AFI 36- 2907, Unfavorable Information File (UIF) Program												
6.1. Orient New Personnel	7						-	-	-	-	-	-
6.2. Schedule Work Assignments	7						-	-	-	-	-	-
6.3. Establish Performance Standards for Subordinates	7						-	-	-	-	-	-
6.4. Evaluate Work Performance Standards for Subordinates	7						-	-	-	-	-	-
6.5. Resolve Technical Problems							-	-	-	-	-	-

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6.6. Counsel Personnel	7						-	-	-	-	-	-
6.7. Resolve Personnel Problems	7						-	-	-	-	-	-
6.8. Initiate Action to Correct Substandard Performance by Personnel	7						-	-	-	-	-	-
7. MANAGEMENT TR: AFI 38-201, Management of Manpower Requirements and Authorizations; AFI 41-106, Medical Readiness Program Management; AFI 65-601 Volume 1, Budget Guidance and Procedures; AFMAN 41-120, Medical Resource Management Operations												
7.1. Unit Manning Document (UMD) (i.e., Authorization change request, organization change request, career progression group, zero balance transfer, manpower change request, assignment of personnel, reconciliation)	7						-	-	-	-	B	-
7.2. Unit Personnel Manning Roster (UPMR) reconciliation	7						-	-	-	-	B	-
7.3. Program Objective Memorandum (POM)	7						-	-	-	-	B	-
7.4. Manpower Standard	7						-	-	-	-	B	-
7.5. Prepare Clinical Laboratory Management Indicators Report (CLMI)	7						-	-	-	-	3c	-
7.6. Manage Readiness Program	7						-	-	-	-	2b	-
7.7. Budget Preparation/Execution	7						-	-	-	-	B	-
8. TRAINING TR: Air Force Enlisted Classification Directory (AFECD); AFI 36-2101, Classifying Military Personnel (Officer and Enlisted); AFI 36-2201, Air Force Training Program												
8.1. Evaluate Personnel to Determine Need for Training	7						-	-	-	-	-	-
8.2. Plan OJT	7						-	-	-	-	-	-
8.3. Supervise OJT	7						-	-	-	-	-	-
8.4. Prepare Job Qualification Standards (JQS)	7						-	-	-	-	-	-
8.5. Design Work Center Specific Training	7						-	-	-	-	-	-
8.6. Conduct Work Center Specific Training	7						-	-	-	-	-	-

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8.7. Counsel Trainees on their Progress	7						-	-	-	-	-	-
8.8. Monitor Qualification and Competency Effectiveness	7						-	-	-	-	-	-
8.9. Maintain Training Records	7						-	-	-	-	b	-
8.10. Evaluate Effectiveness of Training Programs	7						-	-	-	-	-	-
8.11. Recommend Personnel for Training	7						-	-	-	-	-	-
9. MEDICAL LABORATORY ADMINISTRATION TR: AFI 33-360, Publications and Forms Management; AFI 33-360, Publications and Forms Management; AFI 44-102, Medical Care Management; AFI 48-158, Occupational Exposure to Hazardous Chemicals in Laboratories; OSHA Pub 3111, Hazard Communication Guidelines for Compliance; 29 CFR, 1910.134, Respiratory Protection; 42 CFR, Part 493, Laboratory Requirements; DoD 6010.15-M, Military Treatment Facility Uniform Business Office (UBP) Manual; CAP Regulations (current checklist)												
9.1. Laboratory Information System												
9.1.1. Preanalysis phase							B	-	-	-	-	-
9.1.2. Perform preanalysis phase							-	2b	-	-	-	-
9.1.3. Analysis phase							B	-	-	-	-	-
9.1.4. Perform analysis phase							-	2b	-	-	-	-
9.1.5. Post analysis							B	-	-	-	-	-
9.1.6. Perform post analysis							-	1b	-	-	-	-
9.2. Workload reports												
9.2.1. Compile	5						-	-	-	-	-	-
9.2.2. Analyze	7						-	-	-	-	3c	-
9.3. Quality control												
9.3.1. Quality control principles							A	-	-	B	-	-
9.3.2. Perform Quality Control	5						2b	2b	-	-	-	-
9.3.3. Analyze Quality Control	7						2b	-	-	-	3c	-
9.4. Files Maintenance							-	-	-	B	-	-

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9.5. Use operating instructions (OIs)							1a	2b	-	-	-	-
9.6. Develop OIs	7						-	-	-	-	3c	-
9.7. Accreditation/regulatory agencies											-	-
9.7.1. The Joint Commission (TJC)							B	-	-	B	-	-
9.7.2. College of American Pathologists (CAP)							B	-	-	B	-	-
9.7.3. American Association of Blood Banks (AABB)							B	-	-	B	-	-
9.7.4. Food and Drug Administration (FDA)							B	-	-	B	-	-
9.7.5. Prepare for Accreditation Inspections	7						-	-	-	-	3c	-
9.8. Point-of-care testing (POCT) activities												
9.8.1. POCT testing							B	-	-	B	-	-
9.8.2. POCT monitoring	7						-	-	-	-	2b	-
9.9. New technologies							-	-	-	-	-	-
9.10. Medical Terminology							A	-	-	A	-	-
9.11. Correlation/Parallel Studies							-	-	-	A	-	-
9.12. Calibrations							-	-	-	-	-	-
10. GENERAL ANATOMY AND PHYSIOLOGY TR: Applied Anatomy & Physiology, Shmaefsky, B. R. 2008. CBS Publishers; Gray's Anatomy for Students, Drake, R., Vogl A. W., and Mitchell A. 2014. Elsevier												
10.1. Circulatory and Lymphatic systems							B	-	-	-	-	-
10.2. Skeletal, Muscular, and Integumentary systems							B	-	-	-	-	-
10.3. Nervous system							B	-	-	-	-	-
10.4. Endocrine system							B	-	-	-	-	-
10.5. Renal system							B	-	-	-	-	-
10.6. Digestive system							B	-	-	-	-	-
10.7. Respiratory system							B	-	-	-	-	-

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11. COLLECT BLOOD SPECIMENS TR: Clinical & Laboratory Standards Institute (CLSI) Guidelines: -GP41, Collection of Diagnostic Venous Blood Specimens -GP42, Procedures and Devices for the Collection of Diagnostic Capillary Blood Specimens -GP44, Procedures for Handling and Processing of Blood Specimens for Common Laboratory Tests												
11.1. Phlebotomy fundamentals							B	-	-	B	-	-
11.2. Age specific training												
11.2.1. Neonatal												
11.2.1.1. Neonatal capillary							B	-	-	B	-	-
11.2.1.2. Neonatal venous							B	-	-	B	-	-
11.2.1.3. Newborn screening							B	-	-	B	-	-
11.2.2. Pediatric							B	-	-	B	-	-
11.2.3. Adolescent							B	-	-	B	-	-
11.2.4. Adults							-	-	-	B	-	-
11.2.5. Geriatric							B	-	-	B	-	-
11.3. Phlebotomy												
11.3.1. Perform neonatal												
11.3.1.1. Capillary							-	2c	-	-	-	-
11.3.1.2. Venous							-	2c	-	-	-	-
11.3.1.3. Newborn screening							-	2c	-	-	-	-
11.3.2. Perform pediatric							-	2c	-	-	-	-
11.3.3. Perform adolescent							-	3c	-	-	-	-
11.3.4. Adults												
11.3.4.1. Capillary							B	-	-	-	-	-
11.3.4.2. Perform capillary	5						-	3c	-	-	-	-
11.3.4.3. Perform venous	5						2b	3c	-	-	-	-
11.3.5. Perform geriatric							-	3c	-	-	-	-

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12. IMMUNOLOGY (SEROLOGY) TR: Immunology, Volume 1: Immunotoxicology, Immunopathology, and Immunotherapy. Hayat, M. 2017. Elsevier; Clinical Laboratory Medicine, McClatchey, K. D. 2002. LWW; Clinical Immunology, Principles and Practice. Rich, R. R. et al. 2018. Elsevier.												
12.1. Immunology principles							B	-	-	B	-	-
12.2. Syphilis							B	-	-	B	-	-
12.3. Infectious mononucleosis							B	-	-	B	-	-
12.4. Rheumatoid							B	-	-	B	-	-
12.5. Rubella							B	-	-	B	-	-
12.6. Hepatitis							B	-	-	B	-	-
12.7. Beta HCG							B	-	-	B	-	-
12.8. HIV							B	-	-	B	-	-
12.9. Viral studies to include:												
12.9.1. Cytomegalovirus (CMV)							B	-	-	B	-	-
12.9.2. Respiratory syncytial virus (RSV)							B	-	-	B	-	-
12.9.3. Human T-cell lymphotropic virus (HTLV)							B	-	-	B	-	-
12.9.4. Varicella zoster virus (VZV)							B	-	-	B	-	-
12.10. Rapid identification testing							B	-	-	B	-	-
12.11. Immunology Procedures												
12.11.1. Perform syphilis testing							-	3b	-	-	-	-
12.11.2. Perform mononucleosis testing							-	3b	-	-	-	-
12.11.3. Perform rheumatoid testing							-	3b	-	-	-	-
12.11.4. Qualitative beta HCG	5						b	3b	-	-	-	-
12.11.5. Quantitative beta HCG							-	3b	-	-	-	-
12.11.6. Rapid identification testing							B	-	-	-	-	-
12.11.7. Perform Rapid identification testing							-	3b	-	-	-	-
12.12. Operate and maintain equipment							-	-	-	-	-	-

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		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
12.13. Prepare and process specimen for shipment							-	-	-	-	-	-
13. BLOOD BANK/ IMMUNOHEMATOLOGY TR: AFI 44-105, Air Force Blood Program; DoDI 6480.04, Armed Services Blood Program Operational Procedures												
13.1. Immunohematology fundamentals							B	-	-	B	-	-
13.2. Blood grouping and typing												
13.2.1. ABO grouping							B	-	-	B	-	-
13.2.2. Rh typing							B	-	-	B	-	-
13.2.3. Indirect Antiglobulin test							B	-	-	B	-	-
13.2.4. Direct Antiglobulin test							B	-	-	B	-	-
13.2.5. Antibody identifications												
13.2.5.1. Elution/absorption/adsorption							B	-	-	B	-	-
13.2.5.2. Pre-warm/cold agglutinins technique							B	-	-	B	-	-
13.2.6. Antibody titers							B	-	-	B	-	-
13.3. Transfusion services												
13.3.1. Routine compatibility testing							B	-	-	B	-	-
13.3.2. Rh Immune Globulin (RhIG) eligibility							B	-	-	B	-	-
13.3.3. Prenatal workup							B	-	-	B	-	-
13.3.4. Newborn workup							B	-	-	B	-	-
13.3.5. Transfusion reaction workups							B	-	-	B	-	-
13.3.6. Blood or components for issue							B	-	-	B	-	-
13.3.7. Blood or component receipt/storage							B	-	-	B	-	-
13.3.8. Selection of nongroup specific components							B	-	-	B	-	-
13.3.9. Red cell antigen screening							B	-	-	B	-	-
13.3.10. Transfusion service records							B	-	-	B	-	-
13.3.11. Documentation and maintenance							B	-	-	B	-	-
13.3.12. Blood Bank information system							B	-	-	B	-	-

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13.3.13. Fetal maternal hemorrhage testing							B	-	-	B	-	-
13.4. Donor service procedures												
13.4.1. Active donor rosters							A	-	-	B	-	-
13.4.2. Donor service records							A	-	-	B	-	-
13.4.3. Donor screens							A	-	-	B	-	-
13.4.4. Donor phlebotomy							A	-	-	B	-	-
13.4.5. Donor blood processing							A	-	-	B	-	-
13.4.6. Blood or components preparation							A	-	-	B	-	-
13.4.7. Blood or components shipment							A	-	-	B	-	-
13.5. Perform blood grouping and typing procedures												
13.5.1. ABO grouping	5						2b	2c	-	-	-	-
13.5.2. Rh typing	5						2b	2c	-	-	-	-
13.6. Perform atypical antibody studies												
13.6.1. Indirect Antiglobulin test	5						2b	2c	-	-	-	-
13.6.2. Direct Antiglobulin test	5						2b	2c	-	-	-	-
13.7. Antibody identifications							2b	2c	-	-	-	-
13.8. Antibody titers							2b	2b	-	-	-	-
13.9. Perform transfusion service procedures												
13.9.1. Routine compatibility testing	5						2b	2c	-	-	-	-
13.9.2. Rh Immune Globulin (RhIG) eligibility							2b	2c	-	-	-	-
13.9.3. Prepare blood or components for issue	5						b	2c	-	-	-	-
13.9.4. Issue blood or components	5						b	2c	-	-	-	-
13.9.5. Receive/store blood or components	5						b	2c	-	-	-	-
13.9.6. Select nongroup specific components	5						2b	2c	-	-	-	-
13.9.7. Screen red cell antigen							b	2c	-	-	-	-
13.9.8. Maintain transfusion/donor service records							b	2b	-	-	-	-

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13.10. Perform fetal maternal hemorrhage testing							-	2b	-	-	-	-
13.11. Donor service procedures												
13.11.1. Maintain active donor records							b	-	-	-	-	-
13.11.2. Maintain donor service records							b	-	-	-	-	-
13.11.3. Screen donors	5						2b	-	-	-	-	-
13.11.4. Perform donor phlebotomy	5						2a	-	-	-	-	-
13.11.5. Process donor blood							b	-	-	-	-	-
13.11.6. Prepare blood or components							a	-	-	-	-	-
13.11.7. Ship blood or components							a	-	-	-	-	-
13.12. Operate and maintain equipment							-	-	-	-	-	-
13.13. Prepare and process specimen for shipment							-	-	-	-	-	-
14. HEMATOLOGY TR: The Morphology of Human Blood Cells. Bell, A. 2017. Abbott; Clinical Hematology and Fundamentals of Hemostasis. Harmening, D. M. 2008. F. A. Davis; Fundamentals of Urine and Body Fluid Analysis. Brunzal, N. A. 2018. Elsevier; Clinical Hematology: Principles, Procedures, Correlations. Steine-Martin, E. A. 1997. Lippincott Williams, & Wilkins; Principles of Laboratory Instruments. Schoeff, L. E. 1993. Mosby.												
14.1. Hematology fundamentals							B	-	-	B	-	-
14.2. Microscope principles							B	-	-	B	-	-
14.3. Hematology procedures												
14.3.1. White blood cell counts (WBC)							B	-	-	B	-	-
14.3.2. Red blood cell counts (RBC)							B	-	-	B	-	-
14.3.3. Hemoglobin							B	-	-	B	-	-
14.3.4. Hematocrit							B	-	-	B	-	-
14.3.5. RBC indices							B	-	-	B	-	-
14.3.6. Differentials/morphology							B	-	-	B	-	-
14.4. Sickle cell testing							B	-	-	B	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
14.5. Reticulocyte counts							B	-	-	B	-	-
14.6. Erythrocyte sedimentation rate							B	-	-	B	-	-
14.7. Platelet counts							B	-	-	B	-	-
14.8. G-6-PD screen							B	-	-	B	-	-
14.9. Blood smears for malarial parasites							B	-	-	B	-	-
14.10. Coagulation/Hemostasis principles												
14.10.1. Activated partial thromboplastin time (APTT)							B	-	-	B	-	-
14.10.2. Prothrombin time (PT) and international normalized ratio (INR)							B	-	-	B	-	-
14.10.3. Disseminated intravascular coagulation (DIC) screens (D-dimer, FDP)							B	-	-	B	-	-
14.10.4. Fibrinogen							B	-	-	B	-	-
14.10.5. Mixed studies							B	-	-	B	-	-
14.10.6. Platelet function studies							B	-	-	B	-	-
14.11. Related hematology procedures												
14.11.1. Semen analysis							B	-	-	B	-	-
14.11.2. Cerebrospinal fluid (CSF) counts							B	-	-	B	-	-
14.11.3. Other body fluids							B	-	-	B	-	-
14.12. Automated hematology analyzers							-	-	-	B	-	-
14.13. Automated coagulation analyzers							-	-	-	B	-	-
14.14. Perform microscope operations	5						2b	2c	-	-	-	-
14.15. Perform hematology procedures												
14.15.1. White blood cell counts (WBC)	5						2b	2c	-	-	-	-
14.15.2. Red blood cell counts (RBC)	5						2b	2c	-	-	-	-
14.15.3. Hemoglobin	5						2b	2c	-	-	-	-
14.15.4. Hematocrit	5						2b	2c	-	-	-	-
14.15.5. RBC indices							2b	2c	-	-	-	-
14.15.6. Differentials/morphology	5						2b	2c	-	-	-	-
14.16. Perform sickle cell testing							2b	2c	-	-	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
14.17. Perform reticulocyte counts							2b	2c	-	-	-	-
14.18. Perform erythrocyte sedimentation rate							b	2c	-	-	-	-
14.19. Perform platelet count	5						2b	2c	-	-	-	-
14.20. Perform blood smears for differentials and malarial parasites	5						b	3c	-	-	-	-
14.21. Perform coagulation/hemostasis procedures												
14.21.1. Activate partial thromboplastin time (APTT)	5						b	2c	-	-	-	-
14.21.2. Prothrombin time (PT) and international normalized ratio (INR)	5						b	2c	-	-	-	-
14.21.3. Disseminated intravascular coagulation (DIC) screens (D-dimer, FDP)							-	2b	-	-	-	-
14.21.4. Fibrinogen							b	-	-	-	-	-
14.22. Perform related hematology procedures												
14.22.1. Semen analysis							b	2b	-	-	-	-
14.22.2. Cerebrospinal fluid (CSF) counts	5						b	2c	-	-	-	-
14.22.3. Other body fluids	5						b	2b	-	-	-	-
14.23. Operate automated hematology analyzers	5						2b	2b	-	-	-	-
14.24. Operate automated coagulation analyzers	5						b	2b	-	-	-	-
14.25. Operate and maintain equipment							-	-	-	-	-	-
14.26. Prepare and process specimen for shipment							-	-	-	-	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
15. CLINICAL BIOCHEMISTRY TR: Tietz Textbook of Clinical Chemistry. Burtis, C. A. 1999. Saunders; Henry's Clinical Diagnosis and Management by Laboratory Methods. McPherson, R, A. and Pincus, M. R. 2016. Elsevier; Clinical Chemistry: Theory, Analysis, Correlation. Kaplan, L. A. and Pesce, A. J. 2009. Mosby; Clinical Laboratory Medicine, McClatchey, K. D. 2002. LWW; Clinical & Laboratory Standards Institute (CLSI) Guidelines--GP44, Procedures for Handling and Processing of Blood Specimens for Common Laboratory Tests; Principles of Laboratory Instruments. Schoeff, L. E. 1993. Mosby.												
15.1. Clinical biochemistry fundamentals part 1							B	-	-	B	-	-
15.2. Clinical biochemistry fundamentals part 2							B	-	-	B	-	-
15.3. Clinical biochemistry fundamentals part 3							B	-	-	B	-	-
15.4. Automated chemistry analyzers							A	-	-	B	-	-
15.5. Biochemistry analytes												
15.5.1. Enzymes												
15.5.1.1. Amylase							B	-	-	B	-	-
15.5.1.2. Lipase							B	-	-	B	-	-
15.5.1.3. Alkaline Phosphatase (ALP)							B	-	-	B	-	-
15.5.1.4. Aspartate aminotransferase (AST)							B	-	-	B	-	-
15.5.1.5. Alanine aminotransferase (ALT)							B	-	-	B	-	-
15.5.1.6. Gamma glutamyltransferase (GGT)							B	-	-	B	-	-
15.5.1.7. Lactate dehydrogenase (LD)							B	-	-	B	-	-
15.5.1.8. Creatine Kinase (CK)							B	-	-	B	-	-
15.5.2. Cardiac markers												
15.5.2.1. CK-MB							B	-	-	B	-	-
15.5.2.2. Troponin							B	-	-	B	-	-
15.5.2.3. Myoglobin							B	-	-	B	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
15.5.3. Lipid profile												
15.5.3.1. Cholesterol							B	-	-	B	-	-
15.5.3.2. Triglycerides							B	-	-	B	-	-
15.5.3.3. High-density lipoprotein (HDL)							B	-	-	B	-	-
15.5.3.4. Low-density lipoprotein (LDL)							B	-	-	B	-	-
15.5.3.5. Very-Low density lipoprotein (VLDL)							B	-	-	B	-	-
15.5.3.6. Lipid ratios							B	-	-	B	-	-
15.5.4. Serum protein												
15.5.4.1. Total protein							B	-	-	B	-	-
15.5.4.2. Albumin							B	-	-	B	-	-
15.5.4.3. A/G ratio							B	-	-	B	-	-
15.5.5. Carbohydrates							B	-	-	B	-	-
15.5.6. Hemoglobin A1C							B	-	-	B	-	-
15.5.7. Creatinine							B	-	-	B	-	-
15.5.8. Bilirubin							B	-	-	B	-	-
15.5.9. Blood urea nitrogen (BUN)							B	-	-	B	-	-
15.5.10. Uric acid							B	-	-	B	-	-
15.5.11. Electrolytes												
15.5.11.1. Sodium (Na+)							B	-	-	B	-	-
15.5.11.2. Potassium (K+)							B	-	-	B	-	-
15.5.11.3. Chloride (Cl-)							B	-	-	B	-	-
15.5.11.4. CO2							B	-	-	B	-	-
15.5.11.5. Magnesium (Mg2+)							B	-	-	B	-	-
15.5.11.6. Calcium (Ca2+)							B	-	-	B	-	-
15.5.11.7. Phosphate (PO4-3)							B	-	-	B	-	-
15.5.11.8. Anion gap							B	-	-	B	-	-
15.5.12. Blood gases							B	-	-	B	-	-
15.5.13. Urine chemistries							B	-	-	B	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
15.5.14. Cerebrospinal fluid (CSF)							B	-	-	B	-	-
15.5.15. Other body fluids							B	-	-	B	-	-
15.5.16. Toxicology procedures							A	-	-	B	-	-
15.5.17. Therapeutic drug monitoring (TDM)							A	-	-	B	-	-
15.5.18. Blood alcohol												
15.5.18.1. Medical							B	-	-	B	-	-
15.5.18.2. Legal							B	-	-	B	-	-
15.5.19. Vitamins							B	-	-	B	-	-
15.5.20. Endocrine studies							B	-	-	B	-	-
15.5.21. Tumor markers							B	-	-	B	-	-
15.5.22. Iron studies												
15.5.22.1. Iron (Fe)							B	-	-	B	-	-
15.5.22.2. TIBC							B	-	-	B	-	-
15.5.22.3. Ferritin							B	-	-	B	-	-
15.6. Operate automated chemistry analyzers	5						2b	3b	-	-	-	-
15.7. Perform chemistry analyses												
15.7.1. Enzymes	5						-	3b	-	-	-	-
15.7.2. Cardiac markers							-	3b	-	-	-	-
15.7.3. Lipids							-	3b	-	-	-	-
15.7.4. Electrolytes	5						-	3b	-	-	-	-
15.7.5. Iron studies							-	3b	-	-	-	-
15.7.6. Endocrine studies							-	3b	-	-	-	-
15.7.7. Glucose	5						-	3b	-	-	-	-
15.7.8. Bilirubin	5						-	3b	-	-	-	-
15.7.9. Proteins	5						-	3b	-	-	-	-
15.7.10. Hemoglobin A1C							-	3b	-	-	-	-
15.7.11. Tumor markers							-	3b	-	-	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
15.7.12. Blood urea nitrogen (BUN)/Creatinine	5						-	3b	-	-	-	-
15.7.13. Uric acid							-	3b	-	-	-	-
15.7.14. Urine chemistries							-	3b	-	-	-	-
15.7.15. Therapeutic drug monitoring (TDM)							-	3b	-	-	-	-
15.7.16. CSF							-	3b	-	-	-	-
15.7.17. Other body fluids							-	3b	-	-	-	-
15.7.18. Toxicology							-	3b	-	-	-	-
15.7.19. Blood alcohol												
15.7.19.1. Medical	5						-	3b	-	-	-	-
15.7.19.2. Legal	5						a	-	-	-	-	-
15.7.20. Analytes							-	3b	-	-	-	-
15.8. Operate and maintain equipment							-	-	-	-	-	-
15.9. Prepare and process specimen for shipment							-	-	-	-	-	-
16. URINALYSIS PROCEDURES TR: Tietz Textbook of Clinical Chemistry. Burtis, C. A. 1999. Saunders; Fundamental Urine & Body Fluid Analysis. Brunzel, N. A. 2018. Elsevier; Clinical Hematology--Principles, Procedures, Correlations. Stiene-Martin, E. A., Lotspeich-Steinenger, C. A., and Koepke, J. A. 1997. Lippincott Williams & Wilkins; Principles of Laboratory Instruments. Schoeff, L. E. 1993. Mosby.												
16.1. Urinalysis fundamentals							B	-	-	B	-	-
16.2. Macroscopic analysis							B	-	-	B	-	-
16.3. Microscopic examinations							B	-	-	B	-	-
16.4. Qualitative and semi-quantitative urine chemistry procedures (i.e. dipsticks)							B	-	-	B	-	-
16.5. Confirmation tests							B	-	-	B	-	-
16.6. Perform macroscopic analysis	5						2b	3b	-	-	-	-
16.7. Perform microscopic examinations	5						2b	3b	-	-	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
16.8. Perform qualitative and semi-quantitative urine chemistry procedures (i.e. dipsticks)	5						2b	3b	-	-	-	-
16.9. Perform confirmatory tests	5						-	3b	-	-	-	-
16.10. Operate automated urine analyzer							-	3b	-	-	-	-
16.11. Operate and maintain equipment							-	-	-	-	-	-
16.12. Prepare and process specimen for shipment							-	-	-	-	-	-
17. MICROBIOLOGY PROCEDURES TR: Atlas of Human parasitology. Ash, L. A. and Orihel, T. C. 2007. American Society for Clinical Pathology; Bailey & Scott's Diagnostic Microbiology and Textbook of Diagnostic Microbiology. Tille, P. M. 2014. Elsevier; Koneman's Color Atlas and Textbook of Diagnostic Microbiology. Procop, G. W. and Koneman, E. W. 2016. LWW; Medically important Fungi. A Guide to Identification. Larone, D. H. 2011. ASM Press; Medical Microbiology. Murray, P. R., Rosenthal, K. S. and Pfaller, M. A. 2015. Elsevier; Manual of Clinical Microbiology. Jorgensen, J. H. et al. 2015. ASM Press; Foundations of Parasitology. Roberts, L. S. 2013. McGraw Hill.												
17.1. Microbiology fundamentals							B	-	-	B	-	-
17.2. Biological specimen collection instructions							A	-	-	B	-	-
17.3. Characteristics of microorganisms												
17.3.1. Aerobic gram positive cocci							B	-	-	B	-	-
17.3.2. Aerobic gram negative cocci							B	-	-	B	-	-
17.3.3. Aerobic gram positive bacilli							B	-	-	B	-	-
17.3.4. Aerobic gram negative bacilli							B	-	-	B	-	-
17.3.5. Anaerobes							B	-	-	B	-	-
17.3.6. Microaerophillics							B	-	-	B	-	-
17.4. Microscopic examination												
17.4.1. Darkfield microscopy							A	-	-	B	-	-
17.4.2. Potassium hydroxide (KOH)							B	-	-	B	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
17.4.3. India ink preparation							A	-	-	B	-	-
17.4.4. Fecal Leukocytes							B	-	-	B	-	-
17.4.5. Gram stain							B	-	-	B	-	-
17.4.6. Wet wrap							B	-	-	B	-	-
17.4.7. Acid fast bacillus stain							B	-	-	B	-	-
17.5. Bacteria identification												
17.5.1. Culture and staining							B	-	-	B	-	-
17.5.2. Biochemical tests							B	-	-	B	-	-
17.5.3. Serological tests							B	-	-	B	-	-
17.6. Susceptibility tests							B	-	-	B	-	-
17.7. Parasitology fundamentals												
17.7.1. Blood and tissue protozoa							B	-	-	B	-	-
17.7.2. Intestinal and urogenital protozoa							B	-	-	B	-	-
17.7.3. Intestinal and tissue helminths							B	-	-	B	-	-
17.7.4. Arthropods							B	-	-	B	-	-
17.8. Ova and parasite identification												
17.8.1. Concentration techniques							B	-	-	B	-	-
17.8.2. Permanent stained slides							B	-	-	B	-	-
17.8.3. Macroscopic analysis							B	-	-	B	-	-
17.8.4. Pinworm technique							B	-	-	B	-	-
17.9. Occult blood screens							B	-	-	B	-	-
17.10. Mycology fundamentals							A	-	-	B	-	-
17.11. Automated analyzers							A	-	-	B	-	-
17.12. Polymerase chain reaction (PCR)							B	-	-	B	-	-
17.13. Provide biological specimen collection instructions	5						b	3b	-	-	-	-
17.14. Perform microscopic examination of biological material												
17.14.1. Potassium hydroxide (KOH)	5						b	2b	-	-	-	-
17.14.2. India ink preparation							-	-	-	-	-	-

1. Tasks, Knowledge And Technical References	2. Core Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Level Course		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Phase 1	(2) Phase 2	(1) OJT	(2) CDC	(1) OJT	(2) CDC
17.14.3. Fecal leukocytes							2b	2c	-	-	-	-
17.14.4. Gram stain	5						2c	3c	-	-	-	-
17.14.5. Wet prep	5						b	2b	-	-	-	-
17.14.6. Acid fast bacillus stain							b	-	-	-	-	-
17.15. Perform bacteria identification												
17.15.1. Aerobic cultures	5						2b	2c	-	-	-	-
17.15.2. Anaerobic cultures	5						b	2c	-	-	-	-
17.15.3. Microaerophilic cultures	5						-	2c	-	-	-	-
17.16. Identify bacteria using												
17.16.1. Culture and staining procedures	5						2b	2c	-	-	-	-
17.16.2. Biochemical procedures	5						2b	2c	-	-	-	-
17.16.3. Serological procedures							b	2c	-	-	-	-
17.17. Perform susceptibility testing	5						2b	2c	-	-	-	-
17.18. Identify ova and parasite using												
17.18.1. Concentration procedures							2b	2c	-	-	-	-
17.18.2. Permanent stained slides							a	2b	-	-	-	-
17.18.3. Macroscopic analysis	5						2b	2c	-	-	-	-
17.18.4. Pinworm identification							b	3c	-	-	-	-
17.19. Perform occult blood screens	5						2b	2c	-	-	-	-
17.20. Perform mycology testing							-	-	-	-	-	-
17.21. Operate automated analyzers							-	-	-	-	-	-
17.22. Operate and maintain equipment							-	-	-	-	-	-
17.23. Prepare and process specimen for shipment							-	-	-	-	-	-

**TECHNICAL REFERENCE (TR) SOURCE SUMMARY
FOR COMMERCIAL AND OTHER SERVICE PUBLICATIONS
STS 4T0X1**

Commercial Texts (All Skill Levels)

Applied Anatomy & Physiology, Shmaefsky, B. R. 2008. CBS Publishers
Atlas of Human parasitology. Ash, L. A. and Orihel, T. C. 2007. American Society for Clinical Pathology
Bailey & Scott's Diagnostic Microbiology and Textbook of Diagnostic Microbiology. Tille, P. M. 2014. Elsevier
CAP Regulations (current checklist)
Clinical & Laboratory Standards Institute (CLSI) Guidelines:
-GP41, Collection of Diagnostic Venous Blood Specimens
-GP42, Procedures and Devices for the Collection of Diagnostic Capillary Blood Specimens
-GP44, Procedures for Handling and Processing of Blood Specimens for Common Laboratory Tests
Clinical & Laboratory Standards Institute (CLSI) Guidelines--GP44, Procedures for Handling and Processing of Blood Specimens for Common Laboratory Tests
Clinical Chemistry: Theory, Analysis, Correlation. Kaplan, L. A. and Pesce, A. J. 2009. Mosby
Clinical Hematology and Fundamentals of Hemostasis. Harmening, D. M. 2008. F. A. Davis
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Clinical Immunology, Principles and Practice. Rich, R. R. et al. 2018. Elsevier.
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Foundations of Parasitology. Roberts, L. S. 2013. McGraw Hill.
Fundamentals of Urine and Body Fluid Analysis. Brunzal, N. A. 2018. Elsevier
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GP 17-A3, Clinical Laboratory Standards Institute (CLSI) Clinical Laboratory Safety
Gray's Anatomy for Students, Drake, R., Vogl A. W., and Mitchell A. 2014. Elsevier
Henry's Clinical Diagnosis and Management by Laboratory Methods. McPherson, R, A. and Pincus, M. R. 2016. Elsevier
Immunology, Volume 1: Immunotoxicology, Immunopathology, and Immunotherapy. Hayat, M. 2017. Elsevier
Koneman's Color Atlas and Textbook of Diagnostic Microbiology. Procop, G. W. and Koneman, E. W. 2016. LWW
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Medically important Fungi. A Guide to Identification. Larone, D. H. 2011. ASM Press
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The Morphology of Human Blood Cells. Bell, A. 2017. Abbott
Tietz Textbook of Clinical Chemistry. Burtis, C. A. 1999. Saunders

Air Force, DoD, and Other Federal Publications (All Skill Levels)

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42 CFR, Part 493, Laboratory Requirements
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