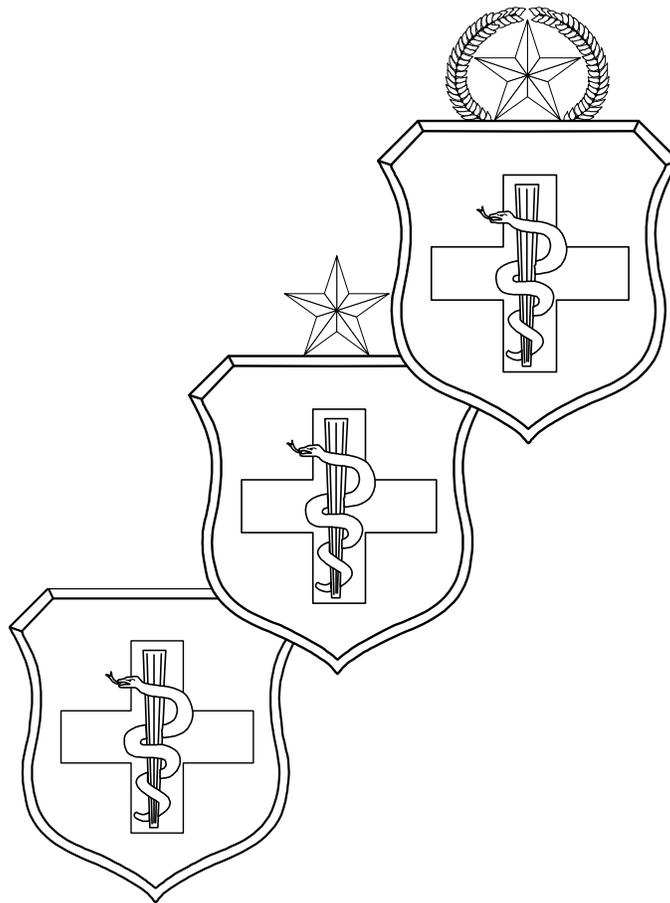


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AEROSPACE PHYSIOLOGY



CAREER FIELD EDUCATION

AND TRAINING PLAN

**CAREER FIELD EDUCATION AND TRAINING PLAN
AEROSPACE PHYSIOLOGY SPECIALTY
AFSC 4M0X1**

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**AEROSPACE PHYSIOLOGY SPECIALTY
AFSC 4M0X1
CAREER FIELD EDUCATION AND TRAINING PLAN**

PART I

PREFACE

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instills rigor in all aspects of career field training. Note: Civilians occupying associated positions will use Part II to support duty position qualification training.

2. The CFETP consists of two parts; both parts of the plan are used by supervisors to plan, manage, and control training within the career field.

2.1. Part I provides information necessary for overall management of the specialty. **Section A** explains how everyone will use the plan; **Section B** identifies career field progression information, duties and responsibilities, training strategies, and career field path; **Section C** associates each level with specialty qualifications (knowledge, education, training, and other); **Section D** indicates resource constraints. Some examples are funds, manpower, equipment, facilities; **Section E** identifies transition training guide requirements for SSgt through MSgt.

2.2. Part II includes the following: **Section A** identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, wartime course/core task and correspondence course requirements; **Section B** contains the course objective list/training standards supervisors will use to determine if airmen satisfied training requirements; **Section C** identifies available support materials. An example is a Qualification Training Package (QTP) which may be developed to support proficiency training. These packages are indexed in AFIND 8, Numerical Index of Specialized Educational Training Publications; **Section D** identifies a training course index supervisors can use to determine resources available to support training. Included here are both mandatory and optional courses; **Section E** identifies MAJCOM unique training requirements supervisors can use to determine additional training required for the associated qualification needs. **Section F** contains the medical specific requirements for documentation of training. It includes information on the development of a Work Center Training Plan and the Enlisted Training and Competency Folder.

3. Using guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their career. This plan will enable us to train today's work force for tomorrow's jobs. At unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training (AT). Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

Air Force Job Qualification Standard/Command Job Qualification Standard (AFJQS/CJQS). A comprehensive task list which describes a particular job type or duty position. They are used by supervisors to document task qualifications. The tasks on AFJQS/CJQS are common to all persons serving in the described duty position.

Allocation Curves. The relation of hours of training in different training settings to the degree of proficiency which can be achieved on specified performance requirements.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, multipurpose document encapsulating the entire spectrum of education and training for a career field. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, to eliminate duplication, and to ensure this training is budget defensible.

Career Training Guide (CTG). A document that uses Task Modules (TMs) in lieu of tasks to define performance and training requirements for a career field.

Continuation Training. Additional training exceeding requirements with emphasis on present or future duty assignments.

Core Task. A task Air Force Career Field Managers (AFCFMs) and MAJCOM Functional Managers (MFMs) identify as a minimum qualification requirement within an Air Force specialty or duty position. These tasks exemplify the essence of the career field - the foundation.

Course Objective List (COL). A publication, derived from initial/advanced skills course training standard, identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-/7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations in accordance with AFI 36-2201, Developing, Managing and Conducting Military Training Programs.

Enlisted Specialty Training (EST). A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill level of a specialty.

Exportable Training. Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

Field Technical Training (Type 4). Special or regular on-site training conducted by a field training detachment (FTD) or by a mobile training team.

High Altitude Airdrop Mission Support (HAAMS). Operations involving aerospace physiology personnel supporting high altitude parachutist on high altitude low opening and high altitude high opening parachuting missions in a safety and life support monitoring roles.

High Altitude Parachutist (HAP). An individual being supported on a high altitude freefall parachuting jump by a aerospace physiology technician.

High Altitude Reconnaissance Mission Support (HARMS). Operations that involve aerospace physiological support of high altitude reconnaissance aircraft by maintaining pressure suit devices.

Instructional System Development (ISD). A deliberate and orderly, but flexible process for planning, developing, implementing, and managing instructional systems. It ensures personnel are taught in a cost efficient way the knowledge, skills, and attitudes essential for successful job performance.

Initial Skills Training. A formal resident course which results in award of the entry level.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-the-Job Training (OJT). Hands-on, over-the-shoulder training conducted to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training.

Optimal Training. The ideal combination of training settings resulting in the highest levels of proficiency on specified performance requirements within the minimum time possible.

Qualification Training (QT). Actual hands-on task performance training designed to qualify an individual in a specific duty position. This portion of the dual channel on-the-job training program occurs both during and after the upgrade training process. It is designed to provide the performance skills required to do the job.

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer-based, or in other audiovisual media.

Representative Sites. Typical organizational units having similar missions, weapon systems or equipment, or a set of jobs, used as a basis for estimating average training capacities and costs within the Training Impact Decision System (TIDES).

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being delivered.

Skills Training. A formal course which results in the award of a skill level.

Specialty Training. A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in the award of a skill level.

Specialty Training Package and COMSEC Qualification Training Package. A composite of lesson plans, test material, instructions, policy, doctrine, and procedures necessary to conduct training. These packages are prepared by AETC, approved by National Security Agency (NSA), and administered by qualified communications security (COMSEC) maintenance personnel.

Specialty Training Standard (STS). An Air Force publication that describes skills and knowledge's that airman in a particular Air Force specialty needs on the job. It further serves as a contract between the Air Education and Training Command and the user to show the overall training requirements for an Air Force specialty code that the formal schools teach.

Standard. An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

Task Module (TM). A group of tasks performed within an Air Force specialty that are performed together and that require common knowledge, skills, and abilities. TMs are identified by an identification code and a statement.

Total Force. All collective Air Force components (active, reserve, guard, and civilian elements) of the United States Air Force.

Training Capacity. The capability of a training setting to provide training on specified requirements, based on the availability of resources.

Training Impact Decision System (TIDES). A computer-based decision support technology being designed to assist Air Force career field managers in making critical judgments relevant to what training should be provided personnel within career fields, when training should be provided (at what career points), and where training should be conducted (training setting).

Training Planning Team (TPT). Comprised of the same personnel as a U&TW, however TPTs are more intimately involved in training development and the range of issues are greater than is normal in the U&TW forum.

Training Requirements Analysis. A detailed analysis of tasks for a particular AFS to be included in the training decision process.

Training Setting. The type of forum in which training is provided (formal resident school, on-the-job, field training, mobile training team, self-study etc.).

Upgrade Training (UGT). Mandatory training which leads to attainment of higher level of proficiency.

Utilization and Training Pattern. A depiction of the training provided to and the jobs performed by personnel throughout their tenure within a career field or Air Force specialty. There are two types of patterns: 1) Current pattern, which is based on the training provided to incumbents and the jobs to which they have been and are assigned; and 2) Alternate pattern, which considers proposed changes in manpower, personnel, and training policies.

Utilization and Training Workshop (U&TW). A forum of MAJCOM Air Force Specialty Code (AFSC) functional managers, Subject Matter Experts (SMEs), and training personnel that determines career ladder training requirements.

War Skills Competencies (WSC). Medical readiness core competencies are mission essential tasks/skills performed in a deployed setting. They will require a high level of accuracy/proficiency or refresher/sustainment training, and will be evaluated at a cognitive and/or performance level.

Section A - General Information

1. Purpose. This CFETP provides information necessary for Air Force Career Field Managers (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors and trainers to plan, develop, manage, and conduct an effective career field training program. This plan outlines the training that individuals in this AFS should receive in order to develop and progress throughout their career. This plan identifies initial skills, upgrade, qualification, advanced, and proficiency training. Initial skills training is the AFS specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. For our Career Field this training is provided by AFMC through the School of Aerospace Medicine, Brooks AFB, TX. Upgrade training (UGT) identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 3-, 5-, 7-, 9-skill levels. Qualification training (QT) is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge required to do the job. Advanced training (AT) is formal specialty training used for selected airmen. Proficiency training (PT) is additional training, either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade. The CFETP also serves the following purposes:

- 1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field-training program. Also, it is used to help supervisors identify training at the appropriate point in an individual's career.
- 1.2. Identifies task and knowledge training requirements for each skill level in the specialty and recommends education/training throughout each phase of an individual's career.
- 1.3. Lists training courses available in the specialty, identifies sources of training, and the training delivery method.
- 1.4. Identifies major resource constraints which impact full implementation of the desired career field-training program.

2. Uses. The CFETP is approved and maintained by the AFCFM. An annual review the CFETP is conducted to ensure currency and accuracy. MAJCOMs must make sure training isn't developed that can be satisfied by existing

courses. This plan will be used at all levels to ensure comprehensive and cohesive training programs are available and instituted for each individual in the specialty.

2.1. USAFSAM/AETU training personnel will develop/revise formal resident, non-resident, field and exportable training based on requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. The MAJCOM focal points will ensure MAJCOM training programs complement the CFETP mandatory initial skill and UGT requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM-developed training to support this AFSC must be identified for inclusion into plan.

2.3. QTPs are developed by the USAFSAM/AETU according to priorities assigned by the AFCFM. Requesting agencies will coordinate their requirements through the AFCFM. They will assist in the developing of the QTP.

2.4. Each individual will complete the mandatory training requirements specified in this plan. The lists of courses in Part II will be used as a reference to support training.

3. Coordination and Approval. The AFCFM is the approval authority. The AFCFM and MFMs will identify and coordinate on the career field training requirements. The AFCFM will initiate an annual review of this document to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training.

Section B - Career Progression and Information

4. Specialty Description. The Specialty Description is composed of two sections, the Specialty Summary and the Duties and Responsibilities.

4.1. **Specialty Summary.** Operates and maintains aerospace physiology devices including altitude chambers. Instructs or observes on simulated flights to altitude, and instructs in a classroom. Trains flying personnel in subjects such as aircraft pressurization, night vision, emergency first aid, oxygen equipment, and emergency escape from aircraft. Other areas of responsibility include centrifuge operations, physiology research and development, parasail instructor, high altitude pressure suit technician, and high altitude airdrop mission support technician.

4.2. **Duties and Responsibilities.** Plans and conducts aerospace physiology activities. Assists aerospace physiologist and flight surgeons to set up local flying activity procedures to physiologically indoctrinate flying personnel. Schedules and operates low-pressure chambers to subject personnel to simulated changes in barometric pressure experienced in flying. Controls pressure inside chamber. Monitors air and oxygen pressure gauges, altimeters, vertical speed instruments, humidity meters, temperature gauges, and other instruments indicating chamber conditions. Operates pressure suit control console to adjust pressures inside suits and helmets. Operates hyperbaric and hypobaric chambers for physiological research. Assists medical officers and performs hyperbaric observer duties. Participates in physiological support of high altitude parachute operations. Operates night vision trainers and projectors, controlling light intensities, silhouette movements, target and aircraft projection, and introduction of illusory effects. Operates ejection seat trainer, and adjusts seat, restraining harness, headrest, and student position to ensure safety during firing. Enforces safety procedures. Operates and demonstrates parasail training equipment, including parasail device, tow reel, tow truck, radio equipment, and meteorological devices. Establishes routine storage, inspection, and maintenance procedures for life support equipment and replacement parts used by training unit.

4.2.1. Conducts training and testing with aerospace physiology devices. Briefs trainees before hyperbaric chamber dives and hypobaric chamber flights, or other types of physiological training. Questions trainees for disqualifying defects requiring referral to aerospace physiologist or flight surgeon. Acts as inside and outside observer, or other crew positions during chamber flights and training sessions. Observe students for signs of hypoxia, decompression sickness, and other physiological effects. Administers tests on physiological data and equipment covered in lectures

and trainer indoctrination. Records information on chamber flights, trainer use, student reactions and symptoms, and operator performance. Briefs students on parasail and proper parachuting techniques. Fits and maintains full and partial pressure suits. Supports associated flight operations. Operates hyperbaric chambers and associated equipment for proficiency and medical treatments. Instructs in parachuting techniques, including landing-fall procedures, swing landing trainer practice, and parasail device use. Operates and demonstrates physiological support devices used in High Altitude Parachuting. Operates the centrifuge and provides individual instruction on physiological problems associated with the high-G environment.

4.2.2. Instructs in aerospace physiology program. Assists in conducting lectures, discussions, and demonstrations to indoctrinate flying personnel in physical and physiological effects and stresses of flight on the human body. Discusses physiological and human performance factors involved in acceleration, exposure to temperature extremes, pressure cabins and rapid decompression, high altitude escape, effective use of eyes under various light conditions, sensory illusions of flying, and various in-flight emergency situations. Instructs students in use of oxygen masks, pressure suits, "G" suits, flying clothing, emergency cylinders, portable assemblies, anti-buffeting helmets, and other high altitude protection equipment. Instructs and supervises trainees in fitting, adjusting, and caring for oxygen masks and other personal equipment, and in using oxygen regulators, ejection seats, and safety harnesses. Instructs parachuting techniques, including landing-fall procedures, swing landing trainer practice, and parasail devices use. Advises training officers on matters regarding course curriculum and preparing training manuals.

4.2.3. Prepares and maintains records. Records information on types and duration of hyperbaric and hypobaric chambers, trainer use, and participating student and operator personnel. Records occurrence and severity of symptoms of decompression sickness, collapse reactions, and other physiological or psychological disturbances caused by chamber flights. Maintains individual records of training completion. Helps prepare reports. Collects data on special tests.

4.2.4. Maintains and modifies apparatus. Performs simple maintenance on low-pressure chamber and pumps, hyperbaric treatment chambers, interphone equipment, ejection seat trainers, pressure suits, oxygen equipment, and other physiological training devices. Prepares training devices and aids for indoctrination sessions. Conducts preflight and pre-use equipment checks. Installs replacement parts in defective equipment. Prepares recording instruments to follow course of operations and special tests. Modifies standard equipment and apparatus to perform special tests. Constructs special training aids, mockups, and testing devices.

4.2.5. Inspects and evaluates aerospace physiology activities. Reviews policies and procedures to determine compliance with directives. Evaluates indoctrination program. Interprets findings and recommends corrective action. Coordinates and consults with aerospace physiologist to improve administrative and technical methods. Performs technical aerospace physiology functions. Resolves technical problems pertaining to aerospace physiology operations. Obtains and compiles data for aerospace physiology activity reports. Assists in research activities.

5. Skill/Career Progression. Adequate training and timely progression from the apprentice to the superintendent skill level play an important role in the Air Force's ability to accomplish its mission. It is essential that everyone involved in training must do their part to plan, manage, and conduct an effective training program. The guidance provided in this part of the CFETP will ensure each individual receives viable training at appropriate points in their career.

5.1. Apprentice (3) Level. Initial skills training in this specialty consists of the tasks and knowledge training provided in the 3-skill level residence course (B3ABY4MO31-001, PDS Code NCP) located at Brooks AFB TX. Skills training requirements were revalidated during the 4MOX1 Utilization and Training Workshop held 18-22 October 1993 at Brooks AFB TX. The decision to revalidate the specific skills and knowledge taught in the initial skills course was based on a review of occupational survey report (OSR) data, training requirements analysis (TRA) data, and 4MOX1 subject matter expert (SME) input. Task and knowledge training requirements are identified in the specialty training standard and course objective list, at Part II, sections A and B. Individuals must complete the initial skills course to be awarded AFSC 4M031.

5.1.1. Job Qualification Training. Upon arrival at their initial duty station apprentice airmen are assigned to a reporting official and an Enlisted Specialty Training (EST) trainer. Normally, the reporting official is the EST trainer. Career Development Course (CDC) 4M051 is started by the trainee at the end of the orientation period and the trainee begins the formal EST task certification process. Though individual units have their preferred ways of conducting this training the **RECOMMENDED** way of doing the training is for the trainee to be assigned to different sections within an Aerospace Physiology Training Flight (APTF), (preferably the section that corresponds to the volume being studied in the CDC). The trainee then works under the supervision of the trainer who is responsible for teaching the trainee all tasks associated with that particular section. The amount of time required will vary from section to section based on the complexity of the tasks assigned to that section. In addition to learning section specific tasks and knowledge, the trainee will also be trained in common core tasks such as operating the altitude chamber.

5.1.2. For the three level trainee, there will be additional task and knowledge requirements if they are assigned to a Command with a specialized function such as Air Education and Training Command with Undergraduate Flying Training Programs. Another special program is High Altitude Reconnaissance Mission Support (HARMS) located at Beale AFB CA. In both of these instances the Command or Base has extensive task and knowledge training requirements that the three level trainee will be trained in. Some APTFs are equipped with operational hyperbaric medical treatment chambers. Three level trainees assigned to these units receive Hyperbaric Academic Training (HAT) immediately following completion of the basic three level course at Brooks AFB TX. Upgrade training in this area is a part of the overall 5-level upgrade training program of those units equipped with operational treatment chambers. As of 20 Sep 1997 operational treatment chambers were located at Kadena AB Okinawa Japan and Peterson AFB CO.

5.1.3. Normal practice is for the trainer to issue one volume of the CDC to the trainee and allow the trainee to work on a self-paced study program to complete the CDC volume. Once the trainee has completed the volume, a Volume Review Exercise (VRE) is administered. If the student passes the VRE, the trainer issues another volume, so the process is repeated with all six volumes. Once all volumes are completed, the trainee is given an end of course exam that covers all the information presented in the five volume CDC. Once the student passes the end of course exam, the knowledge portion of the 5-level upgrade process is considered complete. If the trainee has completed all of the task certification requirements for the base or command they are assigned to, plus 12 months in upgrade training, they only need their supervisor's recommendation for award of the 5 level. This process provides for an airman to be awarded the 5 skill level at 18 months time on station.

5.1.4. From this point on the airmen are expected to continue to upgrade both their skills and career knowledge as they prepare for promotion to staff sergeant. This upgrade process consists of both self study and on the job training; that is studying technical orders that relate to the various training devices, oxygen equipment technical orders, and other technical data that are listed as references in your STS and CDC. **Remember:** The CDC is quite general in the information presented. For detailed, up-to-date information, the current instruction and technical data used by your unit are your primary source of technical information and must be reviewed to stay current and technically proficient.

5.2. **Journeyman (5) Level.** As a 5-level you should be pursuing additional formal training and off-duty education. Some of the suggested formal training you should attend are combat, water and arctic survival schools; the Army Airborne (Parachutist) Course at FT Benning (Note: AM 490 at the Air Force Academy is still a valid training course; however, it will not qualify an individual for the operational parachuting that occurs at several units), AETC Basic Instructor Course, an Emergency Medical Technician Course (either through your local medical facility or through off-duty education), and any other courses that enhance your basic skills such as Cardiopulmonary Instructor, computer operation classes for different programs, Quality Air Force courses, base level supply courses, and any other job related courses available on your base. Off duty education should concentrate on completing courses listed for the Community College of the Air Force Associate Degree. As a 5-level you may also have the opportunity to work in one of several different special functions of the Aerospace Physiology Career Field. These special functions are:

5.2.1. High Altitude Airdrop Mission Support (HAAMS): This is normally additional tasking assigned to specific units which involves flying on various jump platform aircraft as a physiological observer for both the aircrew operators and High Altitude Parachutists (HAP). In this capacity you would perform duties very similar to that performed as an inside observer on altitude chamber flights but with additional responsibility for monitoring and operating the specialized oxygen systems used for such missions. Because of the risks and rigorous nature of such missions, only volunteers perform this duty. Training for this mission consists of aircraft life support training for the specific aircraft you will fly in and either hands-on training on specialized oxygen systems or formal training at the manufacturer of such equipment. Train for this mission IAW AFI 11-409 - High Altitude Airdrop Mission Support.

5.2.2. Clinical Hyperbarics: This program consists of advanced training in Advanced Clinical Hyperbaric Medicine Training at USAFSAM Hyperbaric Medicine Division at Brooks AFB TX. Duties performed by clinical hyperbaric personnel are primarily directed towards treatment of diseases such as gas gangrene, non-healing wounds, burns and other disorders where long-term hyperbaric therapy is indicated. If you are assigned to a hyperbaric facility, you should also seek certification as a Nationally Certified Hyperbaric Technician offered by the National Board of Diving and Hyperbaric Medical Technology.

5.2.3. USAF School of Aerospace Medicine: This special duty assignment allows selected individuals to perform instructor duties as technical training instructors and/or the career development course (CDC) writer. For selection to this job the individual should possess an Associate degree or higher and have career field experience to apply. Duties performed are primarily supporting AFSC awarding courses such as the 4M031 apprentice, flight nurses, air evacuation technicians, and flight surgeons. CDC writers develop and maintain the 5- and 7-level courses.

5.2.4. Research: This special duty assignment allows selected individuals to join the Crew Technology Division of the AFRL at Brooks AFB TX. Duties include participation in various research protocols conducted with volunteer subjects. This may include centrifuge operations, high altitude protection research, cockpit and equipment integration, and thermal protection.

5.2.5. Centrifuge: This duty consists of a training program for fighter aircrews conducted at Holloman AFB, NM, and a research program at Brooks AFB, TX. Both programs are designed to increase the awareness of the physiological problems of the high-G environment and how to counter them.

5.2.6. Professional Military Education (PME): One school that must be completed before a member can progress beyond the 5-level is the Airman Leadership School (ALS), which must be completed before a person can be promoted to Staff Sergeant (SSgt). ALS is approximately four weeks long and usually requires in-residence completion. The school emphasizes supervisor and leadership learning to prepare the member for those additional responsibilities they will have to perform when they are promoted to Staff Sergeant.

5.3. **Craftsman (7) Level.** There are many variables that come into account for a Senior Airman to be promoted to Staff Sergeant that it cannot be fully discussed in this document, however the average time in service for promotion to this grade is about seven years. Once selected for promotion to SSgt, 12 of upgrade training and completion of advanced formal training are required before upgrade to the 7-skill level or Craftsman experience rating. Individuals in normal upgrade training are eligible to attend the formal resident course after completing 12 months in upgrade training if all other mandatory upgrade requirements and the exportable course have been completed. These individuals must still complete 12 months in upgrade training for award of the 7-level.

Individuals in 7-level retraining are eligible to attend the formal course after 6 months if all other requirements are met. These individuals must complete 12 months in upgrade training for award of the 7-level. A 7-level exportable course is required as a prerequisite for attendance at the formal resident course. This formal course is conducted at Brooks AFB TX that emphasizes knowledge in advanced physiology, unit resource management, and other selected subjects designed to qualify the SSgt to teach advanced courses and become actively involved in unit management.

5.3.1. At this point in a career, the SSgt becomes a direct supervisor who must perform the tasks of coach and teacher to subordinates. As a fully qualified craftsman the SSgt becomes the expert in a work area. Whether it is a launch supervisor at Beale AFB CA responsible for all facets of keeping the pilot mission capable or as the NCOIC of Maintenance responsible for keeping the altitude chamber ready for use; the SSgt is considered the resident expert in their particular work section. In order to progress the SSgt will have knowledge of how the individual sections of a unit function to meet their primary mission. As the three level should rotate through each section, so should the new SSgt as part of the upgrade process.

5.3.2. Career progression beyond the SSgt rank consists primarily of increasing supervision and management responsibilities within the APTF while still performing most if not all of the core tasks performed at the 5-level. As a Technical Sergeant (TSgt) the member would most likely be in charge of an element with supervisory responsibilities for two or more subsections. An example of this could be, NCOIC of Logistics with the Supply and Maintenance sections subordinate. In the special mission area of HARMS the TSgt is typically the team chief for deployed HARMS teams and as such has total responsibility for five to six people and all of the equipment needed to launch and recover the HARMS A/C. During the period before promotion to Master Sergeant (MSgt), the TSgt will have to complete an in-residence course at the Noncommissioned Officers Academy. This is a six-week course of Professional Military Education that emphasizes leadership training and human resource management that prepares the member to perform at the superintendent level. The TSgt should also seek updates on equipment used and courses taught by the career field through self-study and military technical training or civilian formal education. Once promoted to MSgt the member would normally be assigned duty as Noncommissioned Officer In Charge. In this capacity the member would be responsible for the day to day management. Depending on the manning of the APTF and its mission, the MSgt may be subordinate to a Senior Master Sergeant (SMSgt) or a Chief Master Sergeant (CMSgt) who would have overall management responsibilities of the enlisted personnel with the duty title of Superintendent/Manager. As a supervisor/manager the duties of the top three grades vary in their scope of responsibility.

5.4. **Superintendent (9) Level.** To be awarded AFSC 4M091, an individual must be a SMSgt and satisfy all duty position training requirements. A superintendent/manager should have earned a career field related associates or higher degree. SMSgt selects will attend the Senior NCO Academy (SNCOA).

5.4.1. A SMSgt may have both the responsibility of Superintendent and the additional duty of MAJCOM Functional Manager. In the larger Commands such as ACC, AETC, and AFMC, the functional manager is a Chief Master Sergeant. In order to be promoted to the grade of CMSgt a SMSgt must have completed the Senior Noncommissioned Officers Academy in-residence. No advanced technical training is required.

5.4.2. The Air Force Career Field Manager (AFCFM) manager is normally a CMSgt in the career field. This individual has the responsibility of writing the Career Field Enlisted Training Plan (CFETP), reviewing it periodically and updating it, working with the technical training school superintendent to insure technical training is meeting the needs of the career field, and with the Career Development Course authors to update CDC material to meet the ever changing needs of the career field. The Career Field Manager is also the waiver authority for all questions concerning personnel who fail to meet upgrade standards.

6. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Aerospace Physiology Specialty career field. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

6.1. **Initial Skills Training.** The initial skills course was revised to provide trainees with a broad spectrum of the career field and to incorporate the Basic Medical Readiness Training Course to align the career field with the other medical specialties. The Principles of Aerospace Physiology Instruction (PAPI) course will be retained to satisfy the academic instructor requirements of AFI 11-403, Air Force Physiological Training Program.

6.2. **Five Level Upgrade Training Requirements.** The 5-skill level requirements were revised to provide core training to all 4M0X1's in UGT.

6.3. Seven Level Upgrade Training Requirements. The advanced skills course requirements were created to provide SSGts the skills and knowledge necessary to become 7-level craftsman. A two-week course is conducted by USAFSAM/AETU at Brooks AFB, TX. An exportable prerequisite was identified for completion prior to course attendance. This prerequisite is computer-based instruction on Human Anatomy and Medical Terminology. Other requirements include the minimum 12 in upgrade training, successful completion of a pretest for acceptance in the resident course, TTB/TARF requirements, and other AFCAT requirements.

6.4. Proficiency Training. All aerospace physiology personnel are highly encouraged to attend at least two of the following Air Force formal schools. Airborne (Parachutist) (course number – L5AZA1T231-001), a three-week long static line parachuting course conducted at Fort Benning, Georgia. Military Freefall Parachutist (course number - L5AZA1T231-006), a military freefall school that is five weeks long conducted at AM-490 Yuma Proving Grounds, Arizona. Combat Survival (course number - S-V80A) a 17-day basic survival course conducted at Fairchild AFB, Washington. Arctic Survival (course number - S-V87A) a five-day long course conducted at Eielson AFB, Alaska. Water Survival (course number - S-V86A) a four-day water survival course currently conducted at Pensacola Naval Air Station, Florida.

6.4.1. Personnel wishing to increase their knowledge of the oxygen equipment used on HAAMS missions should take the Oxygen Orientation Course given by the American Safety Flight Systems a division of the Conax Corporation, located at Buffalo, NY. This two-week course covers the history, care, use/theory of operation, inspection, troubleshooting and storage of HAP oxygen equipment.

7. Community College of the Air Force. Enrollment in CCAF occurs upon completion of basic military training. CCAF provides the opportunity to obtain an Associates in Applied Sciences Degree. In addition to its associates degree program, CCAF offers the following:

7.1. Aerospace Management Certificate. CCAF awards the Aerospace Management Certificate to airmen who have completed job related advanced technical training, professional military education, and possess the 7-skill level.

7.2. Occupational Instructor Certification. Upon completion of instructor qualification training, consisting of the instructor methods course and supervised practice teaching, CCAF instructors who possess an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor. This is only available for instructors at the USAFSAM, Brooks AFB TX.

7.3. Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

7.4. Degree Requirements. All airmen are automatically entered into the CCAF program. The following degree requirements refer specifically to the Aerospace Physiology Technology degree as listed in the 1996-98 CCAF General Catalog. Prior to completing an associates degree, the 5-level must be awarded and the following requirements must be met:

	Semester Hours
Technical Education.....	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education.....	15
Program Elective.....	15
Technical Education; Leadership, Management, and Military Studies; or General Education	
Total.....	64

7.4.1. **Technical Education** (24 Semester Hours): A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Request to substitute comparable courses or to exceed specified semester hour values in any subject/course must be approved in advance by the Services Branch.

Technical Core

Subjects/Courses	Semester Hours
CCAF Internship	16
Clinical Research	3
High Pressure Chamber Operations	6
Hyperbaric Chamber Operations and Maintenance.....	3
Hyperbaric Physiology and Therapy.....	3
Instructional Methodology	3
Introduction to Aerospace Physiology	3
Life-Support Equipment Systems.....	3
Physiological Training Management.....	3
Respiratory and Circulatory Physiology.....	3
Survival Training	6

Technical Electives

Subjects/Courses	Maximum Semester Hours
Academic Counseling	3
AF Enlisted Professional Military Education	12
Algebra-Based Physics.....	4
Computer Science	6
Emergency Medicine.....	3
General Biology	4
General Chemistry.....	8
Human Anatomy and Physiology	4
Practice Teaching.....	3

7.4.2. **Leadership, Management, and Military Studies** (6 Semester Hours): Professional military education and/or civilian management courses.

7.4.3. **Physical Education** (4 Semester Hours): This requirement is satisfied by completion of Basic Military Training.

7.4.4. **General Education** (15 Semester Hours): Applicable courses must meet the criteria for application of courses to the General Education Requirements (GER) and be in agreement with the definitions of applicable General Education subjects/courses as provided in the CCAF General Catalog.

Subjects/Courses	Semester Hours
Oral Communication..... Speech	3
Written Communication.... English Composition	3
Mathematics..... Intermediate algebra or a college-level mathematics course is required.	3

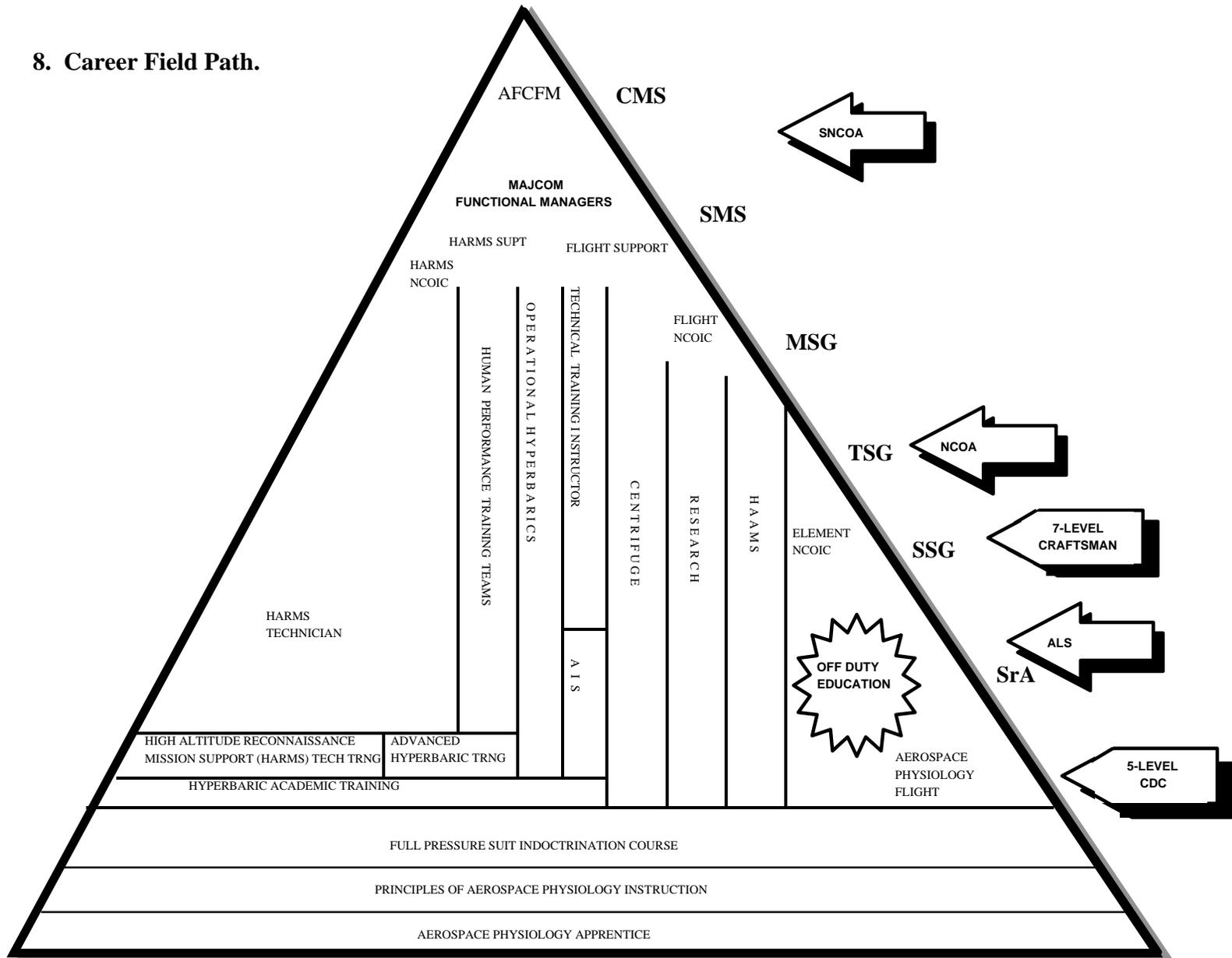
If an acceptable mathematics course is applied as a technical or program elective, a natural science course meeting GER application criteria may be applied as a general education requirement.

Social Science	3
Anthropology, Archaeology, Economics, Geography, Government, History, Political Science, Psychology, Sociology	
Humanities	3
Fine Arts (Criticism, Appreciation, Historical Significance), Foreign Language, Literature, Philosophy, Religion	

7.4.5. **Program Elective** (15 Semester Hours): Satisfied with applicable Technical Education; Leadership, Management, and Military Studies; or General Education subjects/courses, including natural science courses meeting GER application criteria and foreign Language credit earned at the Defense Language Institute or through the Defense Language Proficiency Test. Six semester hours of CCAF degree applicable technical credit otherwise not applicable to this program may be applied.

7.5. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an instructor should be actively pursuing an associates degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

8. Career Field Path.



8.1. Enlisted Career Path.

EDUCATION AND TRAINING REQUIREMENTS	GRADE REQUIREMENTS			
	RANK	AVERAGE SEW-ON	EARLIEST SEW-ON	HIGH YEAR OF TENURE (HYT)
BASIC MILITARY TRAINING SCHOOL				
APPRENTICE TECHNICAL SCHOOL (3-SKILL LEVEL)	Amn A1C	6 months 16 months		
UPGRADE TO JOURNEYMAN (5-SKILL LEVEL) - Complete 3 months duty position/apprentice experience before beginning journeyman training. - Minimum 12 months on-the-job training. - Complete appropriate CDC if/when available. - Sew-on SrA for award of the 5-skill level.	SrA	3 years	28 months	10 Years
AIRMAN LEADERSHIP SCHOOL (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).	<u>TRAINER</u>			
UPGRADE TO CRAFTSMAN (7-SKILL LEVEL) - Minimum rank of SSgt. - 12 months OJT. - Complete appropriate CDC if/when available. - Advanced Technical School.	SSgt	7.5 years	3 years	20 Years
	<u>CERTIFIER</u>			
	- Possess at least a 7-skill level in the same AFSC, if possible but not required. - Attend formal OJT Certifier Course and appointed by Commander. - Be a person other than the trainer.			
NONCOMMISSIONED OFFICER ACADEMY (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt	12.5 years	5 years	20 Years
	MSgt	16 years	8 years	24 Years
USAF SENIOR NCO ACADEMY (SNCOA) - Must be a MSgt or MSgt Selectee. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
UPGRADE TO SUPERINTENDENT (9-SKILL LEVEL) - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).				
	CMSgt	21.5 years	14 years	30 Years

Section C - Skill Level Training Requirements

9. Purpose. Skill level training requirements in this career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general

terms and establishes the mandatory requirements for entry, award and retention of each skill level. The specific task and knowledge training requirements are identified in the STS at Part II, Sections A and B of this CFETP.

10. Specialty Qualification Requirements.

10.1. Apprentice Level Training Requirements.

10.1.1. Specialty Qualification.

10.1.1.1. **Knowledge.** Knowledge of anatomy and physiology, physiological effects of flight, emergency medical care, techniques of operating and maintaining aerospace physiology devices, using and fitting flying equipment, instructional methods, and examination procedures is mandatory.

10.1.1.2. **Education.** For entry into this specialty, completion of high school courses in biology and chemistry are desirable.

10.1.1.3. **Training.** For award of AFSC 4M031, completion of the following training is mandatory: 1. A basic aerospace physiology course 2. An appropriate course in academic instruction.

10.1.1.4. **Experience.** Experience in functions such as operating and maintaining aerospace physiology training devices or fitting, maintaining, or inspecting oxygen and personal flying equipment. Experience is desirable in instructing and examining trainees is mandatory.

10.1.1.5. **Other.** Clear voice without speech impediments. Physical qualification for aircrew duty according to AFMAN 48-123 (formerly AFR 160-43) Operational Support medical standards.

10.1.2. **Training Sources/Resources.** The AFSC 4M031 is awarded once the Aerospace Physiology Apprentice (APA) Course (B3ABY4M031 001) has been successfully completed. This course provides knowledge and basic skills to perform entry-level duties as an enlisted aerospace physiology apprentice. Training includes basic facts and terms about aerospace physiology, physiology fundamentals, operation of hypobaric chambers and supporting equipment, other physiological training devices, personal life support equipment, administrative procedures of physiological training, aircraft emergency escape, cabin pressurization, and briefings on specialized aspects of MAJCOM aerospace physiology programs. The 8 wk 1 day APA Course ends with a 2 ½ -day Basic Medical Readiness Training (BMRT) block and a 2 wk 1 day Principles of Aerospace Physiology Instruction (PAPI) Course, L4AIT75000-001, PDS Code N9S. Attendance of the BMRT and PAPI blocks are not mandatory for U.S. Army or international students. Those students who complete the APA Course and are projected for an assignment to an Air Force hyperbaric facility will also attend an additional 2-day follow-on Hyperbaric Academic Training (HAT) Course, B3AZY4M051 002.

10.1.3. **Implementation.** The following courses are required for Air Force enlisted personnel for award of the AFSC 4M031:

Aerospace Physiology Apprentice	B3ABY4M031 001
Principles of Aerospace Physiology Instruction	L4AIT75000-001

10.2. Journeyman Level Training Requirements.

10.2.1 **Specialty Qualification.** Entry into 5-level UGT is initiated after the individual has completed the 3-level school.

10.2.1.1. **Knowledge.** Knowledge of anatomy and physiology, physiological effects of flight, emergency medical care, techniques of operating and maintaining aerospace physiology devices, using and fitting flying equipment, instructional methods, and examination procedures is mandatory.

10.2.1.2. **Education.** Experience in functions such as operating and maintaining aerospace physiology training devices or fitting, maintaining, or inspecting oxygen and personal flying equipment. Experience is required in instructing and examining trainees is mandatory.

10.2.1.3. **Training.** Qualification consists of completing all STS core tasks, QTPs, and the 4M051 Career Development Course (CDC) for their assigned duty position and any other duty position requirements identified by the supervisor. A minimum of 15 months On-The-Job-Training (OJT) is required for upgrade.

10.2.1.4. **Experience.** Experience in functions such as operating and maintaining physiological training devices, or fitting, maintaining, or inspecting oxygen and personal flying equipment.

10.2.1.5. **Other.** Clear voice without speech impediments. Physical qualification for aircrew duty according to AFMAN 48-123 (formerly AFR 160-43) Operational Support medical standards.

10.2.2. **Training Sources/Resources.** AFSC 4M051 is awarded upon successful completion of the upgrade training program to include Career Developmental Course and on the job training; and be recommended by the individual's supervisor.

10.3. Craftsman Level Training Requirements.

10.3.1 Specialty Qualification.

10.3.1.1. **Knowledge.** Knowledge of anatomy and physiology, physiological effects of flight, emergency medical care, techniques of operating and maintaining aerospace physiology devices, using and fitting flying equipment, instructional methods, and examination procedures is mandatory.

10.3.1.2. **Education.** To assume the grade of SSgt the individual must be graduate of the Airman Leadership School (ALS).

10.3.1.3. **Training.** Entry into UGT is initiated when an individual possesses the 5-skill level and is selected to the grade of SSgt. QT is initiated anytime an individual is assigned duties they are not qualified to perform. The 7-level in residence course must be completed to be awarded the 7-skill level.

10.3.1.4. **Experience.** Experience supervising functions such as operating and maintaining aerospace physiology devices, administering tests to physiological trainees, or instructing in physiological training.

10.3.1.5. **Other.** Clear voice without speech impediments. Physical qualification for aircrew duty according to AFMAN 48-123 (formerly AFR 160-43) Class III medical standards.

10.3.2. **Training Sources/Resources.** The upgrading personnel must currently have the AFSC of 4M051, be a staff sergeant (E-5) selectee or above, in 7-skill level upgrade training for 12 and have completed the 7-skill level training requirements listed in the CFETP. Upgrading individual is then projected for the Aerospace Physiology Craftsman course and must achieve the minimum passing score (70%) on the required exportables pretest. The completed exportable training package will be required for course attendance. The pretest will be administered NLT 6 weeks prior to course start by the unit training manager at the individual's home station.

10.3.3. The Aerospace Physiology Craftsman course (B3ACY4M071 000) provides knowledge and skills to perform duties as an enlisted aerospace physiology craftsman. Includes 7-level career ladder progression, advanced physiology instruction, aerospace physiology unit management, and decompression sickness management. Students will be required to participate in centrifuge operations as well as spatial disorientation training. Students must be medically cleared (not DNIF) to participate in these phases of training. Female students will be required to undergo a medical check before centrifuge operations. These requirements must be satisfactorily completed for graduation.

10.4. Superintendent Level Training Requirements.

10.4.1 **Specialty Qualification.**

10.4.1.1. **Knowledge.** Individuals must possess advanced skills and knowledge of concepts and principles in the management of aerospace physiology training programs and budgeting.

10.4.1.2. **Education.** A superintendent/manager should have earned a career field related associates or higher degree.

10.4.1.3. **Training.** Individuals must be graduates of the USAF Senior NCO Academy (SNCOA) course.

10.4.1.4. **Experience.** Experience managing functions such as operating and maintaining aerospace physiology devices, administering tests to physiological trainees, or instructing in physiological training.

10.4.1.5. **Other.** Clear voice without speech impediments. Physical qualification for aircrew duty according to AFMAN 48-123 Class III medical standards.

10.4.2. **Training Sources/Resources.** The upgrading personnel must currently have the AFSC of 4M071, be in the grade of senior master sergeant (E-8) or above, to be awarded the 9-level upon graduation from the SNCOA for active duty personnel.

Section D - Resource Constraints

11. Purpose. This section identifies known resource constraints which preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be, as a minimum, reviewed and updated annually.

12. Apprentice Level Training Constraints. There are currently no resource constraints at the Apprentice level.

12.1. **Constraints.**

12.1.1. **Impact.**

12.1.2. **Resources Required.**

12.1.3. **Action Required**

12.2. **OPR/Target Completion Date.**

13. Five Level Training Constraints. There are currently no resource constraints at the five skill level.

13.1. **Constraints.**

13.1.1. **Impact.**

13.1.2. **Resources Required.**

13.1.3. **Action Required.**

13.2. **OPR/Target Completion Date.**

14. Seven-Level Training Constraints.

14.1. **Constraints.** Centrifuge device is not controlled by USAFSAM/AETU, Brooks AFB, TX.

14.1.1. **Impact.** Lack of availability of the centrifuge facility will require a training deficiency for students who are unable to receive this training.

14.1.2. **Resources Required.** If the local centrifuge is not available due to research priorities, maintenance, etc..., additional time and TDY funds will be required to send instructors and students to Holloman AFB, NM, to complete this phase of training.

14.1.3. **Action Required.** Coordination with AFRL, Brooks AFB, TX, for the use of the local centrifuge and with Holloman AFB, NM, in the event the local centrifuge is not available. Coordination with HQ AETC for allocation of time and funding for a potential TDY to Holloman AFB, NM, in the event the centrifuge at Brooks AFB, TX, is unavailable.

14.2. **OPR/Target Completion Date.** USAFSAM/AETU

Section E. Transitional Training Guide

THERE ARE CURRENTLY NO TRANSITION TRAINING REQUIREMENTS. THIS AREA IS RESERVED.

15. Purpose.

16. Conditions.

16.1. **Duration.**

16.2. **Target Group.**

17. Transition Training Plan (TTP) Administrations.

17.1. **Requirements.**

17.2. **Training Methods.**

17.3. **Certification Requirements.**

17.4. **Program Management.**

18. Status Reporting.

PART II

Section A - Specialty Training Standard

1. Implementation. This STS will be used for technical training provided by USAFSAM.

2. Purpose. As prescribed in AFI 36-2201, Developing, Managing, and Conducting Training, this STS:

2.1. Lists in the column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airman to perform duties in the 3-, 5-, and 7-skill level. Number task statements sequentially i.e., 1.1, 1.2, 2.1. Column 2 (Core Tasks) identifies a specialty-wide training requirements with a diamond (♦) and wartime task requirements are identified by a (W).

2.2. Provides certification for OJT. Column 3 is used to record completion of tasks and knowledge training requirements. Use automated training management systems to document technician qualifications, if available. Task certification must show a certification/completed date. *(As a minimum, use the following column designators: Tng Comp, Certifier Initials).*

2.3. Shows formal training and correspondence course requirements. Column 4 shows the proficiency to be demonstrated on the job by the graduate as a result of training on the task/knowledge and the career knowledge provided by the correspondence course. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listings.

2.4. **Qualitative Requirements.** Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.5. Becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, **On-The-Job Training Record**, and used according to AFI 36-2201. When used as a JQS, the following requirements apply:

2.5.1. **Documentation.** Document and certify completion of training. Identify duty position requirements by circling the subparagraph number next to the task statement. As a minimum, complete the following columns in Part 2 of the CFETP: Training Completed, Trainee Initials, Trainer Initials, Certifier Initials (if applicable). An AFJQS may be used in lieu of Part II of the CFETP only upon approval of the AFCFM. **NOTE:** The AFCFM may supplement these minimum documentation procedures as needed or deemed necessary for their Career Field.

2.5.1.1. **Documenting Career Knowledge.** When a CDC is not available: the supervisor identifies STS training references that the trainee requires for career knowledge and ensures, as a minimum, that trainees cover the mandatory items in AFMAN 36-2108, Airmen Classification. For two-time CDC course exam failures: supervisors identify all STS items corresponding to the areas covered by the CDC. The trainee completes a study of STS references, undergoes evaluation by the task certifier, and receives certification on the STS. **NOTE:** Career Knowledge must be documented prior to submitting a CDC waiver.

2.5.1.2. **Decertification and Recertification.** When an airman is found to be unqualified on a task previously certified for his or her position, the supervisor lines through the previous certification. Appropriate remarks are entered on the AF Form 623A, **On-The-Job Training Record Continuation Sheet**, as to the reason for decertification. The individual is recertified (if required) either by erasing the old entries and writing in the new or by using correction fluid (if the entries were made in ink) over the previously certified entry.

2.5.1.3 **Transcribing Procedures.** If transcribing an old CFETP to a new CFETP, and the task is required in your flight/workcenter you must circle the task, enter a completion date (date the transcription was completed), trainee's initials, and certifier's initials. **NOTE:** for transcribing procedures the supervisor fulfills the role of certifier and places his/her initials in the certifier's column. If transcribing and old CFETP to new CFETP and the task is not required in the current flight/workcenter you must enter the old completion date (date last qualified) and NO initials

are required. NOTE: after all information has been transferred to the new document the old training document will be given to the trainee. DO NOT throw it away.

2.5.2. **Training Standard.** Tasks are trained and qualified to the go/no go level. Go means the individual can perform the task without assistance and meet local demands for accuracy, timeliness, and correct use of procedures.

2.6. Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members as most appropriate for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs* (formerly AFR 35-16, volume 1). WAPS is not applicable to the Air National Guard.

3. Recommendations. Report unsatisfactory performance of individual course graduates to (*USAFSAM/AETU, 2602 West Gate Road, Brooks AFB TX 78235-5252.*) Reference specific STS paragraphs.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

PAUL K. CARLTON Jr, Lt General, USAF, MC
Surgeon General

THIS BLOCK IS FOR IDENTIFICATION PURPOSES ONLY		
TRAINEE'S NAME (LAST, FIRST, MI)	INITIALS (WRITTEN)	SSAN
PRINTED NAME OF CERTIFYING AND TRAINING OFFICIAL WITH WRITTEN INITIALS		
N/I	N/I	

QUALITATIVE REQUIREMENTS

PROFICIENCY CODE KEY	
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 part of the task. Needs help only on hardest parts. May not meet local demands for speed or accuracy. (PARTIALLY PROFICIENT)
3	Can do all parts of the task. Needs only a spot check of completed work. Meets minimum local demands for speed and accuracy. (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 name the step by step procedures for doing the task. (PROCEDURES)
c	Can explain why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
d	Can predict, identify, and resolve problems about the task. (COMPLETE THEORY)
** SUBJECT KNOWLEDGE LEVELS	
A	Can identify basic facts and terms about the subject. (FACTS)
B	Can explain 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. (EVALUATE)
-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. (Examples b and 1b)	
** A subject knowledge scale 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 that no proficiency is required at this skill level.	
X This mark is used alone in course columns to show that training is not given due to limitations in resources.	
◆ This mark identifies Core Task Requirements, these core task requirements must be certified.	
[R] This mark identifies a War Skills Competencies.	

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
1. CAREER LADDER PROGRESSION	♦											
1.1. The Airman career ladder and educational opportunities TR: AFI 36-2108; AFVA 36-212 AFPD 36-23							A		B		B	
1.2. Progression in career ladder 4MOX1 TR: AFI 36-2108; AFVA 36-212							A		B		B	
1.3. Duties of AFS 4MOX1 TR: AFI 36-2108												
1.3.1. 4M031, 4M051							B		B		-	
1.3.2. 4M071, 4M091							B		B			
1.4. Mission, organization development, and function of the medical service and aerospace physiology TR: AFI 11-403; AFI 41-120, 41-209, 41-210, 44-102, 44-135 46-101, 46-1102							A		B		-	
2. SPECIFIC OPSEC VULNERABILITIES IN THE 4MOX1 CAREER FIELD TR: AFI 10-1101							A		-		-	
3. AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM TR: AFI 91-301, AFI 91-204, AFOSHSTD's 48-1, 48-8, 48-22, T.O. 32-1-101; NFPA code 99	♦											
3.1. Hazards of the 4MOX1 career field							A		B		-	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT	
3.2. AFOSH Standards for the 4M0X1 career field								A		B		-	
3.3. Maintain safe work area								b		c		-	
3.4. Apply safety precautions when working with													
3.4.1. Tools								b		c		-	
3.4.2. Personnel								b		c		-	
3.4.3. Equipment								b		c		-	
3.4.4. Cleaning agents								b		c		-	
3.4.5 Compressed gases								b		c		-	
4. SUPERVISION													
4.1. Orient new personnel TR: AFMAN 36-2108, AFI 36-2203								-		-	b	-	c
4.2. Assign personnel to work crews TR: AFI 21-101, 21-114; AFMAM 38-208; AFPAM 36-2241V1								-		-	b	-	c
4.3. Plan work assignments and priorities TR: AFI 21-101, 21-114								-		-	b	-	c
4.4. Schedule work assignments TR: AFI 21-101, 21-114								-		-	b	-	c
4.5. Establish TR: AFPAM 36-2241V1													
4.5.1. Work methods								-		-	b	-	c
4.5.2. Controls								-		-	b	-	c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
5.2.4. Monitor effectiveness of training												
5.2.4.1. Career knowledge upgrade							-		-	b	-	c
5.2.4.2. Job proficiency upgrade							-		-	b	-	c
5.2.4.3. Qualification							-		-	b	-	c
5.3. Maintain training records							-		-	b	-	c
5.4. Evaluate effectiveness of training							-		-	b	-	c
5.5. Recommend personnel for training TR: AFI 36-2101, AFMAN 36-2108, AFCAT 36-2223							-		-	b	-	c
5.6. Participate in the USAF Graduate Evaluation Program							-		-	b	-	c
6. PHYSIOLOGY FUNDAMENTALS	◆											
TR: Dorland's Illustrated Medical Dictionary, Current Edition, Guytons Textbook of Medical Physiology, Current Edition, Gray's Anatomy, Curent Edition, Essentials of Anatomy &Physiology, Marieb, Current Edition , Ernsting's Aviation Medicine, Current Edition												
6.1. Medical terminology							A		A		A	
6.2. Anatomy & physiology of body systems												
6.2.1. Skeletal							B		B		B	
6.2.2. Muscular							B		B		B	
6.2.3. Nervous							B		B		B	
6.2.4. Respiratory							B		B		B	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
6.2.5. Circulatory							B		B		C	
6.3. Effects of altitude												
6.3.1. Atmospheric characteristics							B		B		B	
6.3.2. Gas Laws							B		B		B	
6.3.3. Hypoxia							B		B		C	
6.3.4. Hyperventilation							B		B		C	
6.3.5. Mechanical effects of pressure change							B		B		B	
6.3.6. Decompression sickness							B		B		C	
6.3.7. Present briefings on effects of altitude							-		-		2b	
6.4. Human Factors												
6.4.1. Self-Imposed stressors							B		B		B	
6.4.2. Fatigue							B		B		B	
6.4.3. Thermal Stress							B		B		B	
6.4.4. Situational Awareness							-		-		B	
6.5. Sensory systems												
6.5.1. Vision							B		B		C	
6.5.2. Noise and vibration							B		B		B	
6.5.3. Speed and acceleration							B		B		B	
6.5.4. Spatial disorientation							B		B		B	
7. PERFORM PRACTICAL DEMONSTRATIONS OF SENSORY ILLUSIONS												
TR: AFI 11-403; TO 43D8-5-21, TO 43D8-7-31; Ernsting's Aviation Medicine, 2nd Edition												
7.1. Spatial Disorientation Trainers	♦						2b		c		-	
7.2. Vertigon inspections												

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
7.2.1. Perform Daily							-			3c	-	4c
7.2.2. Perform Periodic												
7.2.2.1. 10 hour							-			3c	-	4c
7.2.2.2. 200 hour							-			3c	-	4c
7.2.2.3. 400 hour							-			3c	-	4c
7.3. Night Vision Trainers							b		c		-	
7.4. Night Vision Trainer inspections												
7.4.1. Perform daily							-			3c	-	4c
7.4.2. Perform periodic							-			3c	-	4c
7.4.3. Perform special							-			3c	-	4c
7.5. Advanced Spatial Disorientation Demonstrator (ASDD)(4 illusions)							-		-		2b	
7.6. Centrifuge (Gradual, rapid to 3, 5, &7Gs)							-		-		2b	
8. CHAMBER REACTORS TR: T.O. 43D8-3-1-101	♦											
8.1. Treatment of												
8.1.1. Hypoxia							2b		c		-	
8.1.2. Hyperventilation							2b		c		-	
8.1.3. Claustrophobia and Apprehension							2b		c		-	
8.1.4. Mechanical effects of Pressure change												
8.1.4.1. Middle ears							2b		c		-	
8.1.4.2. Sinuses							2b		c		-	
8.1.4.3. Gastro-Intestinal							2b		c		-	
8.1.4.4. Teeth							2b		c		-	
8.1.4.5. Lungs							2b		c		-	
8.1.4.6. Decompression sickness							2b		c		2b	
8.1.5. Oxygen paradox							2b		c		-	
8.2. Take and record vital signs												

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
8.2.1. Blood pressure							2b		c		-	
8.2.2. Pulse							2b		c		-	
8.2.3. Respiration							2b		c		-	
9. AEROSPACE PHYSIOLOGY TRAINING PROGRAM TR: AFI 11-403	♦											
9.1. Scheduling students												
9.1.1. Types of courses							A		B		-	
9.1.2. Scheduling requirements							A		B		-	
9.2. Chamber flights												
9.2.1. Administration							A		B		-	
9.2.2. Supervision							A		B		-	
9.2.3. Types and profiles							A		B		-	
10. AEROSPACE PHYSIOLOGY ADMINISTRATIVE FUNCTIONS TR: AFPD 21-3, AFI 11-403, AFI 37-138, 37-160V7, AFMAN 37-139, TAs 016, 886, AFMAN 23-110V2CD, T.O. 00-5-2-2												
10.1. Prepare, maintain and distribute												
10.1.1. AF Form 361	♦						b		c		-	
10.1.2. AF Form 699 (Computer Generated)	♦						b		c		-	
10.1.3. AF Form 700 (Computer Generated)												
10.1.4. AF Form 702	♦						b		c		-	
10.1.5. AF Form 712(Computer Generated)	♦						b		c		-	
10.1.6. AF Form 1274	♦						b		c		-	
10.1.7. AF Form 1352							-		b		-	
10.1.8. AF Form 1354							-		b		-	
10.1.9. AF Form 1373							b		c		-	
10.1.10. AF Form 1389							-		b		-	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT	
10.1.11. DD Form 114	♦						b		c			-	
10.2. Use and maintain													
10.2.1. Files							a			c			
10.2.2. Publications							a			c			
10.2.3. Technical orders							b			c			
10.3. Tables of allowance										B		-	
10.4. Aerospace Physiology Information Management System							-		-			-	
11. HYPOBARIC CHAMBER													
11.1. Characteristics and use of Hypobaric Chamber TR: T.O. 43D8	♦						b		-			-	
11.2. Perform operational and emergency procedures as TR: AFI 11-403 T.O. 43D8-3-1-101	♦												
11.2.1. Crew chief							1b		c	3c		-	
11.2.2. Chamber operator							2b		c	3c		-	
11.2.3. Lock operator							2b		c	3c		-	
11.2.4. Recorder							b		c	3c		-	
11.2.5. Inside observer													
11.2.5.1. Chamber							b		c			-	
11.2.5.2. Lock							b		c			-	
11.2.6. Lecture Observer									c	3c			

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
11.2.7. Complete chamber flights												
11.2.7.1. Type 1	♦						2b				-	
11.2.7.2. Type 2	♦						2b				-	
11.2.7.3. Rapid decompression	♦						2b				-	
11.3. Inspect and maintain Hypobaric chamber												
TR: T.O. 34Y5-3-29-1, 34Y5-3-35-1, 12R2- 2AIC10-22, 15X1-1 series, 43D8-3-2-6												
11.3.1. Hypobaric chamber												
11.3.1.1. Daily	♦						a		c	3c	-	4c
11.3.1.2. Periodic	♦						a		c	3c	-	4c
11.3.1.3. Special	♦						a		c	2b	-	3c
11.3.2. Vacuum pump systems	♦						b		c	3c	-	4c
11.3.3. Oxygen systems												
11.3.3.1. Connect and disconnect high pressure oxygen cylinders	♦						2b		c	3c	-	4c
11.3.3.2. Perform oxygen flow checks on regulators							A		c	3c	-	4c
11.3.3.3. Remove & replace high pressure C-1 regulators							A		c	3c	-	4c
11.3.3.4. Remove & replace oxygen plumbing							A		c	3c	-	4c
11.3.3.5. Remove and replace oxygen equipment on consoles							A		c	3c	-	4c
11.3.4. Emergency system battery							a		c	3c	-	4c
11.3.5. Intercommunication systems							a		c	3c	-	4c
11.3.6. Instrumentation							a		c	3c	-	4c
11.4. Prepare and maintain inspection & maintenance documentation	♦											
TR: T.O. 00-20-5, 00-20-7, 00-20-2, 43-1-06-5												
11.4.1. AFTO Form 95							b		c	3c	-	4c
11.4.2. AFTO Form 244							b		c	3c	-	4c
11.4.3. AFTO Form 245							b		c	3c	-	4c

ote: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)							
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level			
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT		
11.5. Principles of TR: AFI 11-403	♦													
11.5.1 Hypobaric chamber flights							A		B		-	4c		
11.5.2. P.R.I.C.E Check							A		B		-	4c		
11.5.3. Rapid decompression							A		B		-	4c		
11.5.4. Pre- and post-flight							A		B		-	4c		
11.6. Conduct briefings on:														
11.6.1. P.R.I.C.E. check	♦						-		c	3c	-			
11.6.2. Pre- and post-flight	♦						-		c	3c	-			
11.6.3. Type 1	♦						-		c	3c	-			
11.6.4. Type 2	♦						-		c	3c	-			
11.6.5. Type 3	♦						-		c	3c	-			
11.6.6. Type 4	♦						-		c	3c	-			
11.6.7. Type 5	♦						-		c	3c	-			
11.6.8. Full Pressure Suit														
12. OXYGEN EQUIPMENT TR: T.O. 15X series, 42B series T.O. 14P series, AFI 11-206														
12.1. Storage types, inspections and maintenance TR: T.O. 42B5-1-2, 42B6-1-1 AFI 44-108, T.O. 33D2-10-10-51	♦						B		B		-			
12.2. Regulators TR: T.O. 15X6 series	♦						B		B		-			
12.3. Emergency and portable TR: T.O. 15X6-4, 15X1-4, 15X-1-3, 15X1-4-2-12	♦						B		B		-			
12.4. Perform pre-, in- and post-flight inspections TR: T.O. 15X-1-1	♦						b		c	3c	-	4c		
12.5. Fit, clean, store, inspect and maintain oxygen masks TR: T.O. 15X5, T.O. 15X5-3-6-1, 15X5-4-1-101, 15X5-4-4-12, 15X5-4-4-13, 15X5-4-8-1	♦						b		c	3c	-	4c		

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
12.6. Fit, clean, store, inspect and maintain protective helmets TR: 14P3-4-151	♦						b		c	3c	-	4c
12.7. Provide classroom instruction in oxygen equipment	♦						-		c	3c	-	4c
12.8. Prepare and maintain AFTO Form 334	♦						b		c	3c	-	4c
12.9. Custom oxygen mask												
12.9.1. Requirements for custom masks TR: AFI 11-301, AFMAN 23-110V2CD								-		B		C
12.9.2. Determine adequacy of face casts TR: SOI 55-1								-		B		C
12.9.3. Maintain Records TR: SOI 55-1								-		2b		C
12.9.4. Construct mask molds from face casts TR: SOI 55-2								-		2b		c
12.9.5. Prepare custom mask molds for dipping TR: SOI 55-2								-		2b		c
12.9.6. Dip mask mold TR: SOI 55-2								-		2b		c
12.9.7. Remove mask from mold TR: SOI 55-2								-		2b		c
12.9.8. Cure mask TR: SOI 55-2								-		2b		c
12.9.9. Repair mold TR: SOI 55-2								-		2b		c
12.9.10. Construct hardshell TR: SOI 55-2								-		2b		c
12.9.11. Package and ship TR: SOI 55-2								-		2b		c
12.9.12. Operate equipment TR: SOI 55-2								-		2b		c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
12.9.13. Care and maintenance of mask							-		2b		c	
TR: T.O. 15X5-4-4-12/SOI 55-2												
12.9.14. Hazard communication program							-		b		c	
TR: AFOSH Standard 161-21												
13. AIRCRAFT EMERGENCY ESCAPE												
TR: T.O.s 14D1-1-1, 14D1-2-2, 14D3-11-1, 14D8-2-2-1, 14D1-2-1-2; command directives and applicable aircraft T.O.;												
AFR 64-4V1												
13.1. Principles of	♦											
13.1.1. Parachutes						B		B		-		
13.1.2. Parachuting						B		B		-		
13.1.3. Ejection Seat Trainer						B		B		-		
13.1.4. In-flight egress						B		B		-		
13.1.5. Survival other than crash survival						B		B		-		
13.1.6. Crash survival						B		B		-		
13.2. Conduct briefings on:												
13.2.1. Personal protective equipment	♦					-			2c	-		
13.2.2. Principles and procedures of parachuting	♦					-			2c	-		
13.2.3. Emergency ground egress principles	♦					-			2c	-		
13.2.4. Physiological factors	♦					-			2c	-		
13.2.5. Swing landing trainer familiarization						-			2c	-		
13.2.6. Water survival procedures						-			2c	-		

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
13.2.7. Procedures of survival other than crash survival							-			2c	-	
13.2.8. Crash survival	♦						-			2c	-	
13.3. T-37 Egress Training												
TR: AETC IGP-V4A-A-AP-IG												
S-V8N-C-CAP-IG, AETC												
SG/W P-V4A-A-AP-SW/S												
V8N-C-CAP-SW												
13.3.1. Perform T-37 egress instructor duties								-		3c		4c
13.3.2. Perform T-37 ground egress trainer instructor duties								-		3c		4c
13.3.3. Perform T-37 air egress trainer instructor duties								-		3c		4c
13.4. T-38 Egress Training												
TR: AETC IG P-V4A-A-AP												
SG S-V8N-C-CAP -IG, AETC												
SG/W P-V4A-A-AP-SW/S												
-V8N-C-CAP-SW												
13.4.1. Perform T-38 egress instructor duties								-		3c		4c
13.4.2. Perform T-38 ground egress trainer instructor duties								-		3c		4c
13.4.3. Perform T-38 Air egress trainer instructor duties								-		3c		4c
13.5. T-43 Egress Training												
TR: AETC IG P-V4A-A-AP SG												
S-V8N-C-CAP-IG, AETC												
SG/W P-V4A-A-AP-												
SW/S-V8N-C- CAP-SW												

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
13.5.1. Perform T-43 egress instructor duties							-		3c		4c	
13.5.2. Perform T-43 escape slide assigned duties							-		3c		4c	
13.5.3. Perform T-43 wet ditch egress assigned duties							-		3c		4c	
13.6. T-43 Egress Trainers												
13.6.1. Perform raft inspections							-		3c		4c	
13.6.2. Perform LPU inspections							-		3c		4c	
13.6.3. Perform slide inspections							-		3c		4c	
13.6.4. Perform strap inspections							-		3c		4c	
13.6.5. Pack T-43 rafts							-		3c		4c	
13.6.6. Pack T-43 slides							-		3c		4c	
13.6.7. Pack life preserver units							-		3c		4c	
14. MH 15 EJECTION SEAT TRAINING TR: T.O. 43D8-2-2-1, 43D8-2-6;AERC JG P-V4-A-AP-IG, 5-V8N-C-CAPJG, AERC SG/W P-V-4A-A-AP-SW/S-V8N-C-CAP-SW, T1A Egress												
14.1. Perform instructor duties							-		3c		4c	
14.2. Perform trainer assistant duties							2b		3c		4c	
14.3. Perform daily inspection							3b		3c		4c	
14.4. Perform periodic (300 firing)							-		3c		4c	
14.5. Perform special (600 Firing/12 month) Inspection							-		3c		4c	
14.6. Perform periodic (1000 Firing) Inspection							-		3c		4c	
14.7. Perform safety belt inspection							-		3c		4c	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
15. CABIN PRESSURIZATION	◆											
TR: Aviation Medicine, 2nd Edition Ernsting & King; AFI 11-206												
15.1. Principles and physiological effects							B		C		-	
15.2. Perform precautionary and corrective procedures							b		c		-	
15.3. Conduct classroom instruction							-		c		-	
16. PHYSIOLOGICAL SUPPORT OPERATIONS												
16.1. Full pressure suit (U-2/SR-71) TR: TMs 14P-3-GNS1031 series, TMs 14P3-GNS1034 series												
16.1.1. Purpose and evolution	◆						A		B		-	
16.1.2. Operating principles	◆						A		B		-	
16.1.3. Physiological factors affecting wear and use	◆						A		B		-	
16.1.4. Inspect full pressure suit												
16.1.4.1. Periodic/Acceptance	R										3c	
16.1.4.2. Annual											3c	
16.1.4.3. Overhaul	R										3c	
16.1.5. Inspect full pressure suit helmet												
16.1.5.1. Periodic/Acceptance	R										3c	
16.1.5.2. Overhaul	R										3c	
16.1.6. Packing, storage and handling procedures	R										3c	
16.1.7. Size, fit and adjust full pressure suit	R						-				3c	-
16.1.8. Connect and disconnect to aircraft system							-				3c	-

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
16.2. Maintain and repair full pressure suit assembly (U-2/SR-71) TR: TM 14P3-GNS1031 series, TMs 14P3-GNS1034 series												
16.2.1. Remove sunshade scratch												3c
16.2.2. Remove visor scratch												3c
16.2.3. Repair/replace helmet liner parts												
16.2.3.1 Replace cover												3c
16.2.3.2. Replace earphone and electrical												3c
16.2.3.3. Replace earphone assembly												3c
16.2.4. Cementing												
16.2.4.1. Handle and store	R											3c
16.2.4.2. Mix and apply	R											3c
16.2.5. Sewing												
16.2.5.1. Operate machine	R											3c
16.2.5.2. Replace needle and pressure feet	R											3c
16.2.5.3. Set thread tension	R											3c
16.2.6. Glove bladder replacement												
16.2.6.1. Disassemble												3c
16.2.6.2. Stitch												3c
16.2.6.3. Reassemble												3c
16.2.7. Replace face seal	R											3c
16.2.8. Replace gas container	R											3c
16.2.9. Replace suit bootie	R											3c
16.2.10. Replace relief valve	R											3c
16.2.11. Lace flotation cell to torso harness												3c
16.2.12. Troubleshoot												3c
16.2.13. Lace												3c
16.2.14. Stitch												3c
16.2.15. Repair exterior cover	R											3c
16.2.16. Repair retainer (torso) assembly												

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT	
16.3. Inspect and maintain U-2 survival kit TR: AFMAN 91-201, TOs 00-25-241, 00-35A-39, 00-11ON-15, 11A-1-10, 11A10-26-7, 14S-1-102, 14S1-4-22, 31R2-2PRC-90-1, 00-20-1, 00-25-06-2-1, 00-11ON-10, 43-0134, 1451-3-51, 145510-2-2, 33D7-71-42-1 TMs 14S1-PM/ 59300.6-1, 33D2-DN/D292.1040.5-1													
16.3.1. Theory of operations						A				B			
16.3.2. Test equipment and tools										B			
16.3.3. Perform 120 day/functional inspection	R										3c		
16.3.4. Perform inspection of rucksack	R										3c		
16.3.5. Inspect, install and store pyrotechnics	R										3c		
16.3.6. Inspect, fold, pack and store life raft	R										3c		
16.3.7. Inspect medical kit (visual)											3c		
16.3.8. Inspect, install and store survival radios (AN/PRC-90-2 & AN/PRC-112)	R										3c		
16.3.9. Container repair/cementing											3c		
16.4. Inspect and maintain U-2 parachute TR: TOs 00-25-241, 14D3-11-1, 14D1-1-1, 14D1-1-2, 14D1-2-1, TM RQ-225, TSUR-C Manual													
16.4.1. Theory of operation												B	
16.4.2. Perform 30 day inspection	R											3c	

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)							
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level			
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT		
16.4.3. Perform 120 day acceptance inspection														
16.4.4. Inspect, install, and store emergency locator beacons (TSUB-A, TSUB-A1)	R													
16.4.5. Inspect, install and remove personnel lowering device														
16.5. Inspect and maintain oxygen related equipment (U-2/SR-71)														
16.5.1. Dual suit controller TR: TM 14P3-DN/53500.2-3														
16.5.1.1 Theory of operation														
16.5.1.2. Perform periodic inspection	R													
16.5.1.3. Overhaul/troubleshoot/ repair	R													
16.5.2. Dual helmet regulator TR: TM 14P3-DN/53600.1-3														
16.5.2.1. Theory of operation														
16.5.2.2. Perform periodic inspection	R													
16.5.2.3. Overhaul/troubleshoot/repair	R													
16.5.3. Vent hose TR: TM 14P3-DN/3076.6-1														
16.5.3.1. Theory of operation														
16.5.3.2. Perform 180 day inspection	R													
16.5.3.3. Repair														
16.5.4. Vent controller TR: TM 14P3-DN/3076.6-1														
16.5.4.1. Theory of operation														
16.5.4.2. Perform 180 day inspection														
16.5.4.3. Repair														
16.5.5. Low flight regulators TR: TM 14P3-DN/232000-19.21.														
16.5.5.1. Perform periodic inspection	R													
16.5.5.2. Overhaul/troubleshoot/ repair	R													
16.5.6. Low flight adapter hoses TR: TM 14P3-GNS1031-2														
16.5.6.1. Perform periodic inspection														

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)							
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level			
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT		
16.5.6.2. Overhaul/troubleshoot/repair														
16.5.7. Liquid oxygen ventilators TR: TM 33D2-DN/D152-1000														
16.5.7.1. Theory of operation														
16.5.7.2. Periodic/troubleshoot/repair	R													
16.5.8. Overhaul exhalation valve TR: TM 33D2-DN/D1833. 5-1														
16.5.9. Hand held vent hose	R													
16.6. Oxygen test equipment (U-2/SR-71)														
16.6.1. Calibration kit TR: TM 33D2-DN/D278-4140, TM DN-D284-1500-3														
16.6.1.1. Theory of operation														
16.6.1.2. Use														
16.6.2. Calibrate/maintain aircraft flow tester TR: TM 33D2-DN/71700. 8-1	R													
16.6.3. Calibrate/maintain glove tester TR: TM dnd 278-1910	R													
16.6.4. Calibrate/maintain wall tester TR: TM 33D2-DN/D278 -2940.2.3-1	R													
16.6.5. Calibrate/maintain wall console, vent, oxygen and comm TR: TM 33D2-DN/78300.1-1	R													
16.6.6. Calibrate/maintain integration tester TR: TM 33D2-DN/D278-2860	R													
16.6.7. Calibrate/maintain integration tester TR: TM 33D2-DN/70700. 13-1	R													
16.6.8. Calibrate/maintain suit/helmet tester TR: TM 33D2-DN-D278- 2840.1-1	R													

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
16.6.9. Calibrate/maintain helmet electrical tester TR: TM GN-20236G-04	R							-		3c		
16.6.10. Calibrate/maintain exhalation valve tester TR: TM 33D2-DN/D292-1018.3-1	R							-		3c		
16.6.11. Calibrate/maintain controller/regulator test stand TR: TM 33D2-DN/71800.8-1	R							-		3c		
16.6.12. Calibrate/maintain 0-15 PSI gauge TR: TM SGT OI 66-3, DN/0278.2840-1-1	R							-		3c		
16.6.13. Calibrate/maintain seat kit oxygen tester TR: TM 33D2-DN/D492-3000.2M-1	R							-		3c		
16.6.14. Calibrate/maintain seat kit oxygen charging stand TR: TM33D2-DN/D 278-2600.1-1	R							-		3c		
16.6.15. Calibrate/maintain seat kit functional tester TR: TM 33D2-DN/D292-1040.2-1	R							-		3c		
16.6.16. Calibrate/maintain anti-suffocation value tester TR: TM 33D2-DN/D278.5520.1-1	R							-		3c		
16.6.17. Calibrate/maintain face heat tester TR: TM SGT Checklist	R							-		3c		
16.7. U-2 flight operations TR: TMs 400-U-2 and 14P3-GNS1031 series												

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1. Tasks, Knowledge And Technical References	2. Core/ Rare-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Trng Start	Trng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
16.7.1. Perform preflight/postflight Procedures on												
16.7.1.1. Full pressure suit assembly												
16.7.1.2. Survival kit TR: TM 14S1-PM/59300.6-1	R											3c
16.7.1.3. Parachute TR: TM RQ-225	R											3c
16.7.1.4. Vent hose TR: TM 14P3-DN/30760. 6-1	R											3c
16.7.1.5. Vent controller (T-block) TR: TM 14P3-DN/30760. 6-1	R											3c
16.7.1.6. Low flight torso harness 1 vent TR: TO 14D3-11-1, TM 14P3-GNS1031-2, TM 14P3-GNS1034 series												3c
16.7.1.7. Low flight regulator TR: TM 14P3-DN/D279, 14P3-DN/23200.23-1, 14P3 -DN/D241.1521.6-3												3c
16.7.1.8. Full pressure suit using hand-held ventilator												3c
16.7.2. Pilot transport vans TR: TM 33D2-DN/D279, 33D- DN/D279.1920.5.7-1												
16.7.2.1. Inspect and operate												
16.7.2.1.1. Gas operated												3c
16.7.2.1.2. Diesel operated												3c
16.7.2.2. Upload and download												
16.7.2.2.1. High flight	R											3c
16.7.2.2.2. Low flight	R											3c
16.7.3. LOX procedures TR: AFMAN 91-201, AFOSH STD 127-31, TO 00-25-172, 15X-1-1, TM 33D2- DN/D152 .1000.6-1												
16.7.3.1. Safety												B

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1. Tasks, Knowledge And Technical References	2. Core/Rar-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
16.7.3.2. Inspect and operate MA-1 LOX cart	R								3c			
16.7.3.3. Fill hand-held ventilator	R								3c			
16.7.4. upload and download aircraft survival equipment	R								3c			
16.7.5. High flight procedures												
16.7.5.1. Layout full pressure suit (FPS)									3c			
16.7.5.2. Don FPS	R								3c			
16.7.5.3. Integrate pilot/FPS	R								3c			
16.7.5.4. Use hand-held ventilator for pilot/FPS integration									3c			
16.7.5.5. Change pilots suit/helmet without breaking time on oxygen									3c			
16.7.5.6. Check cockpit prior to entry	R								3c			
16.7.5.7. Hookup pilot in cockpit	R								3c			
16.7.5.8. Change vent over	R								3c			
16.7.5.9. Recovery procedures									3c			
16.7.5.10. Evaluate for evolved gas decompression sickness									3c			
16.7.5.11. Doff suit	R								3c			
16.7.6. Perform aircraft turn procedures									3c			
16.7.7. Low flight procedures												
16.7.7.1. Pickup pilot									3c			
16.7.7.2. Check cockpit prior to entry									3c			
16.7.7.3. Hookup pilot in cockpit	R								3c			
16.7.7.4. Recovery procedures									3c			
16.7.8. Prepare, document and review paper work									3c			
TR: Applicable Operating Instructions												
16.8. Supervisor Training												
TR: TMs 14P3-GNS1031-2, 400 U-2 Applicable Operating Instructions												
16.8.1. Launch and recovery supervisor												
16.8.1.1. Shift supervisor duties and responsibilities								-	B		C	

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
17. AEROSPACE PHYSIOLOGY												
INSTRUCTION												
RESPONSIBILITIES												
TR: AFI 11-403; AFM 50-62												
17.1. Academic subjects												
17.1.1. Learning process							B	-	-	-	-	
17.1.2. Communicative skills							B	-	-	-	-	
17.1.3. Instructional Systems							A	-	-	-	-	
Development process												
17.1.4. Questioning techniques							B	-	-	-	-	
17.1.5. Instructor's role							A	-	-	-	-	
17.1.6. Evaluation process for student achievement							B	-	-	-	-	
17.1.7. Dynamic of small learning groups							B	-	-	-	-	
17.2. Development objectives and lesson plans												
17.2.1. Develop objectives							1b	-	-	-	-	
17.2.2. Develop lesson plans							2b	-	-	-	-	
17.3. Instructional media												

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
17.3.1. Select instructional aids							b		-		-	
17.3.2. Use overhead and projector techniques							b		-		-	
17.3.3. Use whiteboard techniques							b		-		-	
17.4. Preparing for and conducting instruction												
17.4.1. Present a military briefing							2b		-		-	
17.4.2. Present an informal lesson							2b		-			
17.4.3. Present a lecture or demonstration/performance lesson							2b		-		-	
18. HYPERBARIC PROGRAM TR: AFI 48-112; AFP 161-27												
18.1. Purpose and evolution	♦						A		B			
18.2. Physiological principles of the hyperbaric environment	♦						A		B			
18.3. Physiological basis and treatment for disorders with hyperbaric medicine												
18.3.1. Acute disorders	R						-		B			C
18.3.2. Chronic disorders	R						-		B			C
18.3.3. Experimental disorders	R						-		-			B
18.4. Principles of managing and organizing hyperbaric treatment facilities							-		B			B
18.5. Principles of hyperbaric chamber systems												
18.5.1. Air pressurization									B			
18.5.2. Fire suppression									B			
18.5.3. Communication									B			
18.5.4. Mask breathing system (MBS)									B			
18.5.5. Liquid Oxygen (LOX)									B			

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
18.5.6. Console controls									B			
18.5.7. Suction									B			
18.5.8. Gas Analysis									B			
18.6. Decompression Sickness Management	♦						-		B		2b	
18.7. THEORY AND OPERATION OF HYPERBARIC CHAMBER SYSTEMS AND ANCILLARY EQUIPMENT	♦						A	-	B	-		C
18.8. Perform duties on AF 99S-2 hyperbaric chambers												
18.8.1. Crew chief							A	2b	B	3b		3c
18.8.2. Chamber operator							A	2b	B	3b		3c
18.8.3. Time Keeper							A	2b	B	3b		3c
18.8.4. Recorder							A	2b	B	3b		3c
18.8.5. Lock operator							A	2b	B	3b		3c
18.8.6. Inside observer							A	2b	B	3b		3c
18.8.7. NCOIC							A	2b	B	3b		3c
18.8.8. Aerospace physiologist							A	2b	B	3b		3c
18.8.9. Medical attendant							-	A	-	B		3c
18.8.10. Medical officer							-	A	-	B		3c
18.8.11. Medical specialist team member							-	A	-	B		3c
18.9 HYPERBARIC MAINTENANCE TR: 43D8-3-6-6; AFP 161-27												
18.9.1 Perform daily, periodic and special inspections and maintenance on hyperbaric chamber systems and ancillary equipment TR: 43D8-3-4-61							-		-	3b		3c
18.9.2. Prepare and maintain AFTO Forms 95, 244, 344 and other computer generated maintenance forms and reports							-		-	3b		3c

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
18.9.3. Perform basic trouble shooting procedures on hyperbaric chamber systems							-		-	3b		3c
18.10 HYPERBARIC INFECTION CONTROL TR: AFI 44-108; Lippincott Manual of Nursing Practice, Current Edition												
18.10.1. Apply procedures for maintaining infection control standards for hyperbaric treatment facilities								-		c		3c
18.10.2. Clean, store and maintain dive clothing and linen								-		2c		4d
18.10.3. Clean and prepare medical equipment for sterilization								-		2c		3c
18.11 HYPERBARIC ADMINISTRATION TR: AFI 11-403; AFI 48-112; AFP 161-27												
18.11.1. Know procedures for initiating hazardous duty pay								-		-		C
18.11.2. Process and audit start and stop pay actions for assigned personnel								-		-		3c
18.11.3. Schedule tours and briefings								-		-		3c
18.11.4. Schedule test of pressure dives								-		-		3c
18.11.5. Prepare and maintain call rosters								-		-		3c

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1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
18.11.6. Schedule daily chamber activities							-		-			3c
18.11.7. Know and comply with quality assesment and improvement of quality Air Force program initiatives TR: AFI 44-118, ALR 160-1							-		-			2d
18.11.8. Indoctrinate supplemental and newly assigned personnel												
18.11.8.1. Administrative procedures							-		-			3d
18.11.8.2. Inside observer duties							-		-			3d
18.11.8.3. Principles of hyperbaric chamber safety and equipment and equipment caution							-		-			3d
18.11.8.4. Medical equipment familiarization							-		-			3d
18.11.8.5. Conduct tours and briefings							-		-			3d
18.11.8.6. Conduct staff assistance visits							-		-			3c
18.11.8.7. Computer operations												
18.11.8.7.1. Manage patient register database							-		-			2b
18.11.8.7.2. Manage APIMS computer database							-		-			3c
18.11.8.7.3. Enter, modify and retrieve data from unit computer systems							-		b			2b

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1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
19. PARACHUTE FAMILIZATION												
TRAINING												
TR: AETCR 51-21, OI 51-1;												
AETC IGP-V4A-A-AP-IG/S-V8N-												
C-CAP-IG/AETC S6/W P-V-4A-												
AP S-V-8N-C-CAP-SW												
19.1. Purpose	◆						A		B		-	
19.2. Ground training/Swing lander trainer												
19.2.1. Perform 2 and 4 foot PLF platform instructor duties							A		B	3c	-	4c
19.2.2. Perform drag training instructor duties							A		B	3c	-	4c
19.2.3. Perform suspended harness instructor duties							A		B	3c	-	4c
19.2.4. Perform SLT safety/hook-up assistant duties							A		B	3c	-	4c
19.2.5. Perform SLT instructor (Rope) duties							A		B	3c		4c
19.2.6. Perform parachute landing fall							3b		c	3c	-	4c
19.3. Parasail Operations												
19.3.1. Perform NCOIC duties							A		B	3c	-	4c
19.3.2. Perform release operator duties							A		B	3c	-	4c
19.3.3. Perform tow driver duties							A		B	3c	-	4c
19.3.4. Perform crew chief duties							A		B	3c	-	4c
19.3.5. Perform canopy assistant duties							A		B	3c	-	4c
19.3.6. Perform landing zone supervisor duties							A		B	-	-	4c
19.3.7. Perform landing zone assistant							-			2b	-	3c
19.3.8. Perform parasail recorder duties							-			2b	-	3c
19.3.9. Perform parasail camera/video							-			2b	-	3c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT	
19.3.10. Perform pre-use inspection/ parasail equipment							-				4c	-	4c
19.3.11. Perform daily inspection/parasail equipment							-				4c	-	4c
19.3.12. Update AETC Form 768, Parachute Familization Training							-				3c	-	-
19.3.13. Update AETC Form 717, Parachute Familization Training							-				3c	-	-
19.3.14. Update AETC Form 578, Parachute Familization Training Equipment Record							-				3c	-	-
20. HIGH ALTITUDE AIRDROP MISSION SUPPORT (HAAMS) TR: AFI 11-409													
20.1. Purpose and evolution	♦						A			B		-	C
20.2. Operations and management	♦						A			B		-	C
20.3. Perform duties and responsibilities of HAAMS physiology technician during	R												
20.3.1. Orientation flights													
20.3.1.1. C-130							-		-		2b		3c
20.3.1.2. C-141							-		-		2b		3c
20.3.1.3. C-17							-		-		2b		3c
20.3.2. Initial Aircrew Life Support/ Ground Egress Training TR: AFI 11-409													
20.3.2.1. C-130							-		-		2b		3c
20.3.2.2. C-141							-		-		2b		3c
20.3.2.3. C-17							-		-		2b		3c
20.3.3. Operate and Maintain HAAMS equipment													
20.3.3.1. Mission Kit							-		B		3c		3c
20.3.3.2. Pre-breathing consoles and Jump bottles							-		B		3c		3c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
20.3.3.3. Life Support Equipment							-		B	3c		3c
20.3.4. Recognize signs and symptoms, and manage the treatment of physiological reactions							-		B	3c		4c
21. CENTRIFUGE TR: AFI 11-403, AFI 11-404												
21.1. Purpose and evolution	♦						A		B		-	
21.2. Physiological factors	♦						A		B		-	
21.3. Crew positions												
21.3.1. Centrifuge lecturer							A		B		-	
21.3.2. Centrifuge operator							A		B		-	
21.3.3. Centrifuge crewchief							A		B		-	
21.3.4. Centrifuge swingman							A		B		-	
21.3.5. Centrifuge aerospace physiologist							A		B		-	
21.4. Inspections and maintenance							-		A		-	
21.5. Review centrifuge panels member's record for accuracy								b		c		
21.6. Size and fit anti-G suit to centrifuge rider								3c		-		
21.7. Place EKG leads on subject								3c		-		
21.8. Perform emergency centrifuge stops								3c		-		
21.9. Perform emergency egress of centrifuge								3c		-		
21.10. Conduct pre-centrifuge ride briefing								-		2b		3c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
21.11. Serve as centrifuge central observer							-		2b		3c	
21.12. Serve as centrifuge central observer												
21.12.1. Automatic mode							-		3c		-	
21.12.2. Manual control panel mode							-		3c		-	
21.12.3. Manual subject mode							-		3c		-	
21.13. Schedule centrifuge operation							-		2b		3c	
21.14. Maintain centrifuge test records							-		2b		3c	
21.15. Record pertinent data during centrifuge exposure							-		2b		-	
22. CLINICAL HYPERBARIC SPECIALTY												
TR: Hyperbaric Medicine Practice, NFPA 99 Chap 19, ASME/PVHO, T.O. 43D8-3-4-61, T.O. 15x-1-1, AFP 161-27, Manufacturer's Operating Manuals, Local Operating Instructions												
22.1. Purpose and evolution									A			
22.2. Physiological principles of the hyperbaric environment									B			
22.3. Physiological basis and treatment for disorders with hyperbaric medicine												
22.3.1. Acute disorders									B			
22.3.2. Chronic disorders									B			
22.3.3. Experimental									B			

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
22.6. CLINICAL HYPERBARIC OPERATIONS												
22.6.1. Systems												
22.6.1.1. Operate air pressurization							2b		3b			3c
22.6.1.2. Operate fire suppression							2b		3b			3c
22.6.1.3. Operate communications							2b		3b			3c
22.6.1.4. Operate mask breathing systems (MBS)							2b		3b			3c
22.6.1.5. Operate liquid Oxygen (LOX)							2b		3b			3c
22.6.1.6. Operate console controls							2b		3b			3c
22.6.1.7. Operate suction							2b		3b			3c
22.6.1.8. Operate gas analysis							2b		3b			3c
22.6.2. Ancillary Equipment												
22.6.2.1. Operate self contained breathing apparatus/ Emergency Escape Breathing Device							2b		3b			3c
22.6.2.2. Operate gas mixer							2b		3b			3c
22.6.2.3. Operate hyperbaric breathing mask							2b		3b			3c
22.6.2.4. Use protocol box							2b		3b			3c
22.6.3. Understand Clinical Hyperbaric Team Duties and Responsibilities							A		B			C
22.6.4. Perform crew duties on clinical hyperbaric chambers												
22.6.4.1. Crew chief							2b		3b			3c
22.6.4.2. Chamber operator							2b		3b			3c
22.6.4.3. Inside observer							2b		3b			3c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
22.6.5. Perform crew duties on research chambers												
22.6.5.1. Crew chief							2b		3b		3c	
22.6.6. Appropriate safety procedures when working in hyperbaric facilities							A		B		C	
22.6.7. Demonstrate proficiency in handling chamber emergencies												
22.6.7.1. Mechanical emergencies							2b		3b		3c	
22.6.7.2. Power loss							2b		3b		3c	
22.6.7.3. Loss of accumulator air supply							2b		3b		3c	
22.6.7.4. Fire interior/exterior of chamber							2b		3b		3c	
22.6.7.5. Contaminated Air supply							2b		3b		3c	
22.6.7.6. Compressor failure							2b		3b		3c	
22.6.7.7. Loss of breathing gas							2b		3b		3c	
22.6.7.8. Window failure							2b		3b		3c	
22.6.8. Apply procedures for protocol monitoring							A		B		C	
22.6.9. Operate pass thru lock							2b		3b		3c	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
22.8.2. Ancillary Medical Equipment												
22.8.2.1. Operate cardiac monitor/ defibrillator								2b		3b		3c
22.8.2.2. Operate BVM (bag, valve, mask)								2b		3b		3c
22.8.2.3. Operate suction device								2b		3b		3c
22.8.2.4. Operate infusion pump								2b		3b		3c
22.8.2.5. Operate glucose monitor								2b		3b		3c
22.8.2.6. Operate ventilator								2b		3b		3c
22.8.2.7. Operate hemodynamic								2b		3b		3c
22.8.2.8. Operate end tidal volume Monitor								2b		3b		3c
22.8.2.9. Operate pulse oximeter								2b		3b		3c
22.8.2.10. Operate end title CO2 monitor								2b		3b		3c
22.8.2.11. Operate oxygen hoods/ nebulizer								2b		3b		3c
22.8.2.12. Operate tracheostomy cuffs								2b		3b		3c
22.8.2.13. Operate transcutaneous Oxygen Monitor								2b		3b		3c
22.8.3. Patient Care Considerations												
22.8.3.1. Monitor IV								2b		3b		3c
22.8.3.2. Maintain surgical drains								2b		3b		3c
22.8.3.3. Indications for hyperbaric therapy								2b		3b		3c
22.8.3.4. Schedule/assist in patient evaluation								2b		3b		3c
22.8.3.5. Take patient photos								2b		3b		3c
22.8.3.6. Assist/perform wound care								2b		3b		3c

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
22.9. INFECTION CONTROL												
CONSIDERATIONS												
TR: AFP 161-27, Lippencott												
Manual of Nursing Practice,												
U.S. Public Health Service CDC												
Guide, OSHA Guideline 29 CFR												
191030												
22.9.1. Maintain standards for hyperbaric treatment facilities								2b		3b		3c
22.9.2. Clean, store and maintain dive clothing and linen								2b		3b		3c
22.9.3. Clean and store medical equipment								2b		3b		3c
22.9.4. Prepare medical equipment for sterilization								2b		3b		3c
22.10. HYPERBARIC ADMINISTRATION												
TR: AFP 161-27, AFI 48-112												
Manufacturer's Operating Instructions, Local Operating Instructions												
22.10.1. Schedule/conduct tour and briefings								-				
22.10.2. Schedule test of pressure dives								-				
22.10.3. Prepare and maintain call rosters								A				
22.10.4. Schedule daily chamber activities								A				
22.10.5. Orient medical supplemental team members												

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT
22.10.5.1. Administrative procedures							-					
22.10.5.2. Inside observer duties							-					
22.10.5.3. Principles of hyperbaric chamber safety and equipment familiarization							-					
22.10.6. Documentation and Forms												
22.10.6.1. Patient documentation												
22.10.6.1.1. Research record							A					
22.10.6.1.2. Inpatient/Outpatient record							A					
22.10.6.2. AF Form 1389												
22.10.6.2.1. Personnel documentation							A					
22.10.7. Computer Operations												
22.10.7.1. Manage patient registry database							A					
22.10.7.2. Enter, modify and retrieve data from unit computer systems							A					
23. HYPERBARIC PATIENT AND LECTURE SLIDE REPOSITORY												
TR: Local Operating Instructions												
23.1. Initiate patient slide series							A					
23.2. Locate and retrieve patient and lecture slides							A					
23.3. Set up and maintain slide repository												
23.3.1. Patient slides							-					
23.3.2. Lecture slides							-					
23.4. Use patient research microfiche library							-					

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) Course	(2) OJT	
24. PERFORMS PARACHUTIST DUTY TO ACQUIRE AND MAINTAIN THE DESIRED EXPERTISE TO CONDUCT DOD HIGH ALTITUDE PARACHUTIST (HAP) PHYSIOLOGICAL TRAINING, EMERGENCY EGRESS, PARACHUTE DESCENT PROCEDURES, POST EGRESS, SLT AND PARASAIL TO AIRCREW STUDENTS IAW AFI 11-403. CAREER FIELD PARACHUTE OPERATIONS DIRECTLY SUPPORT HAP TRAINING, HAAMS, AETC UPT/UNT SYLLABI REQUIREMENTS, TEST PARACHUTE PROGRAM, USAFSAM TRAINING SUPPORT, HARMS, AND THE MILITARY FREEFALL SCHOOL. TR: AFI 11-403, AFI 11-409, AFI 11-410, AETC 51-20.													
24.1. Static line													
24.1.1. Performs static line													
24.1.2. Performs static line jumpmaster duties													
24.1.3. Performs static line instructor duties													
24.2. Military freefall													
24.2.1. Performs military freefall													
24.2.2. Performs military freefall jumpmaster duties													
24.2.3. Performs military freefall instructor duties													
24.3. Other related duties													
24.3.1. Performs parachutist safety position duties													
24.3.2. Performs test parachuting													
24.3.3. Performs demonstration jumps													
24.3.4. Performs DZ control duties													

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) CDC	(2) OJT	(3) CRS
26. Human Performance Training							-	-	-	-	-		
Teams (HPTT)													
26.1. Advanced Physiology													
26.1.1. Respiratory System											B		
26.1.2. Circulatory System											C		
26.1.3. Hypoxia											C		
26.1.4. Decompression Sickness											C		
26.1.5. Vision											C		
26.2. Human Performance													
26.2.1. Fatigue and Countermeasures											B		
26.2.2. Thermal Stress											B		
26.2.3. Situational Awareness											C		
26.2.4. Acceleration and Life Support Equipment											B		
26.3. Unit/Flight Management													
26.3.1. Role of the 7 Level											B		
26.3.2. Career Ladder Progression											B		
26.3.3. Unit Manning Document											C		
26.3.4. Training Allocations											C		
26.3.5. Budgeting											B		
26.3.6. Depot Level Maintenance											B		
26.4. Review of Human Factors													
26.4.1. Foundation of Human Factors Training												C	
26.4.2. Evolution of Crew Resource Management (CRM)												C	
26.4.3. USAF Safety Program												B	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

1. Tasks, Knowledge And Technical References	2. Core/ War-time Tasks	3. Certification For OJT					4. Proficiency Codes Used To Indicate Training/Information Provided (See Note)						
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level		
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2) OJT	(1) CDC	(2) OJT	(1) CDC	(2) OJT	(3) CRS
26.5. Performance Issues							-	-	-	-	-		
26.5.1. Fatigue Countermeasures												C	
26.5.2. Exercise Physiology												B	
26.5.3. Nutrition												B	
26.5.4. Nutritional Supplementation													
Pharmacology												B	
26.5.5. Thermal Stress												C	
26.5.6. Ergonomics												B	
26.5.7. Stress Management												B	
26.5.8. Visual Enhancement and Protection												B	
26.6. Situational Awareness													
26.6.1. Advanced SA												C	
26.6.2. Technology and SA												C	
26.6.3. SA Research Update												B	
26.6.4. Conduct SA Presentations												3c	
26.7. Organizational Performance (OP) Factors													
26.7.1. OP I: Organizational Influences to SA and Teamwork												C	
26.7.2. OP II: Organizational Performance Applications (Field Experiences)												B	
26.7.3. Operational Risk Management (ORM)												C	
26.7.4. Shop Visit Workshop												B	
26.7.5. Conduct ORM Briefings												3c	

Note: BLK #4: Columns (1) & (2) can be relabeled to meet CF Requirements; i.e., 2 phase 3 skill level course, 5 lvl QTPs.

Section B - Course Objective List

4. Measurement. Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

5. Standard. The standard is 70% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

6. Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, needs help only on hardest parts. (PARTIALLY PROFICIENT). The student can also name step by step procedures for doing the task.

7. Course Objective List. These objectives are listed in the sequence taught by Block of Instruction.

7.1. Initial Skills Course.

7.1.1. Block I Aerospace Physiology Apprentice Course.

- | | |
|-----|--|
| N/A | Using a hypobaric chamber, successfully complete 2 flights to a maximum altitude of FL350.
STS: 11.2.7. Meas: PC |
| 1 | Identify the Professional Military Education (PME) Courses and educational opportunities provided by the Air Force.
STS: 1.1. Meas: W |
| 2 | Differentiate between the primary and secondary duties and responsibilities of the 4MOX1 in their respective career ladder progression.
STS: 1.2. Meas: W |
| 3 | Identify how Aerospace Physiology supports the medical service corps.
STS: 1.4. Meas: W |
| 4 | Recognize basic medical terminology associated with the 4MOX1 career field.
STS: 6.1. Meas: W |
| 5 | Identify the basic anatomy and physiology of the skeletal system.
STS: 6.2.1. Meas: W |
| 6 | Identify the anatomy and physiology of the different muscle groups.
STS: 6.2.2. Meas: W |
| 7 | Identify the basic anatomy and physiology of the nervous system.
STS: 6.2.3. Meas: W |
| 8 | Identify the relationship of the gas laws to the physiology divisions of the atmosphere.
STS: 6.3.1., 6.3.2. Meas: W |
| 9 | Identify the anatomy and physiology of the respiratory and circulatory systems.
STS: 6.2.4., 6.2.5. Meas: W |
| 10 | Identify the physiology factors of hypoxia.
STS: 6.3.3. Meas: W |
| 11 | Identify the problems associated with hyperventilation and positive pressure breathing.
STS: 6.3.4. Meas: W |
| 12 | Identify the physiological effects of pressure change on the body.
STS: 6.3.5. Meas: W |
| 13 | Identify decompression sickness as it relates to cause, type, symptoms, and methods of prevention and treatment.
STS: 6.3.6. Meas: W |

- 14 Identify the methods for providing oxygen to aircrew and generating and storing oxygen for use on board aircraft and in altitude chambers.
STS: 12.1. Meas: W
- 15 Identify the characteristics and functions of oxygen regulators used on military aircraft.
STS: 12.2. Meas: W
- 16 Identify the functions and operating characteristics of portable and emergency oxygen equipment used on USAF aircraft.
STS: 12.3. Meas: W
- 17 Identify the procedures to perform pre, in and post-flight inspections.
STS: 12.4. Meas: W
- 18 Given a sphygmomanometer and a stethoscope, obtain, record, and maintain pulse, BP, and respiration rate with no more than two instructor assists.
STS: 8.2. Meas: PC
- 19 Identify how the eyes function under normal and adverse conditions.
STS: 6.5.1. Meas: W
- 20 Identify the various night vision illusions and limitations of vision which occur during low contrast/low illumination conditions.
STS: 7.3. Meas: W
- 21 List the duties of the chamber and lock observers during normal and emergency operations.
STS: 11.2.5.1.,11.2.5.2. Meas: W

7.1.2. Block II Aerospace Physiology Apprentice Course.

- 1 Given a chamber flight scenario, the student will identify and treat chamber reactions with no more than 1 instructor assist.
STS: 8.1. Meas: PC
- 2 Identify the different types of chamber flights, their purpose, and the responsibilities of the chamber flight supervisor.
STS: 9.2 Meas: W
- 3 Identify the types of courses, scheduling requirements, and administration for courses conducted IAW AFI 11-403.
STS: 9.1.1.,9.1.2. Meas: W
- 4 List the procedures for the preparation, maintenance (storage), and distribution of Aerospace Physiology Administration forms.
STS: 10.1.1.,10.1.2.,10.1.4.,10.1.5.,10.1.6.,10.1.9.,10.1.11. Meas: W
- 5 Identify the steps used to maintain files and publications.
STS: 10.2.1.,10.2.2. Meas: W
- 6 Identify duties of the recorder and the grades used in recording hypobaric chamber student reactions.
STS: 11.2.4. Meas: PC
- 7 Identify the steps necessary to establish a requirement for a T.O. and file all the updates, according to T.O. 00-5-2, chapters 4 and 6.
STS: 10.2.3. Meas: PC
- 8 Identify the basic design and uses of hypobaric chambers used in Aerospace Physiology.
STS: 11.1. Meas: W
- 9 Identify the inspection and maintenance requirements for the Hypobaric chamber.
STS: 11.3.1.1.,11.3.1.2.,11.3.1.3. Meas: W
- 10 List the procedures for the preparation and maintenance of inspection and maintenance documentation.
STS: 11.4. Meas: W
- 11 Identify the inspection and maintenance requirements on chamber instrumentation.
STS: 11.3.6. Meas: W
- 12 Identify the inspection and maintenance requirements for the emergency system battery and inter-communication systems.
STS: 11.3.4.,11.3.5. Meas: W
- 13 Identify the inspection and maintenance procedures for vacuum pump systems.
STS: 11.3.2. Meas: W

- 14 Given the student crew chief checklist, prepare the chamber for flight and perform one mechanical emergency with no more than one assist from the instructor.
STS: 11.2.1. Meas: PC/W
- 15 Given the proper tools remove and replace high pressure cylinders with one instructor assist IAW T.O. 43D8-3-1, para. 4-34/35/36.
STS: 11.3.3.1. Meas: PC
- 16 Identify the procedures for using, inspecting, and maintaining aviators oxygen masks.
STS: 12.5. Meas: W
- 17 Demonstrate the procedures to disassemble and assemble a pressure demand oxygen mask.
STS: 12.5. Meas: N/A
- 18 Demonstrate the procedures to correctly fit a protective helmet and pressure demand oxygen mask.
STS: 12.5.,12.6. Meas: N/A
- 19 Identify the procedures required to fit, clean, store inspect and aircrew protective helmets.
STS: 12.6. Meas: W
- 20 Given a chamber flight profile and related chamber equipment, perform operational and emergency procedures as chamber operator with no more than two instructor assists IAW checklist.
STS: 11.2.2. Meas: PC/W
- 21 Identify the tools and characteristics for inspection and maintenance of Oxygen Regulators.
STS: 11.3.3. Meas: W
- 22 Identify the functions of Aerospace Physiology Information Management System (APIMS) and how it supports the Aerospace Physiology mission.
STS: 10.4. Meas: W

7.1.3. Block III Aerospace Physiology Apprentice Course.

- 1 Identify the principles and physiological effects of aircraft pressurization.
STS: 15.1. Meas: W
- 2 Identify the precautionary and corrective procedures used before, and after a decompression.
STS: 15.2. Meas: W
- 3 Identify the concept of human factors in aircraft mishaps causation.
STS: 6.4. Meas: W
- 4 Identify the hazards of excessive noise and vibration and the protective measures that are available.
STS: 6.5.2. Meas: W
- 5 Identify the physiological hazards and limitations produced by G-forces, and methods used to combat those hazards.
STS: 6.5.3. Meas: W
- 6 Identify the physiological problems associated with spatial disorientation (SDO) and motion sickness.
STS: 6.5.4 Meas: W
- 7 Identify how the physiological effects of sensory illusions are incurred in flight and in the spatial disorientation trainers (SDO trainers).
STS: 7.1. Meas: W
- 8 Identify the stresses encountered in a survival situation and the means employed to counter and control them.
STS: 13.1.5. Meas: W
- 9 Identify the principles of aircraft emergency escape systems.
STS: 13.1.1.,13.1.2.,13.1.4. Meas: W
- 10 Identify the purpose, evolution, operations, and management of the aerospace physiology High Altitude Airdrop Mission Support (HAAMS) program.
STS: 20.1., 20.2. Meas: W
- 11 Perform four parachute landing falls (front, rear, right, and left) from the Swing Landing Trainer with a maximum of 3 attempts allowed from each direction.
STS: 19.2.6. Meas: PC
- 12 Given flight profiles and related chamber equipment, perform operational and emergency procedures as lock operator with no more than one instructor assist.
STS: 11.2.3. Meas: PC

- 13 Identify the purpose, evolution and physiological principles associated with the DOD Hyperbaric Therapy Program.
STS: 18.1., 18.2. Meas: W
- 14 Identify the evolution, purpose, operating principles and consequences of using pressure suits.
STS: 16.1.1.,16.1.2.,16.1.3. Meas: W
- 15 Identify the purpose and operations of Parachute Familiarization Training.
STS: 19.1., 19.2., 19.3. Meas: W
- 16 Identify the purpose and operation of Centrifuge training.
STS: 21.1., 21.2., 21.3. Meas: W
- 17 Identify the proper ejection sequence produced IAW the MH-15 trainer checklist.
STS: 14.3.1.,13.1.3. Meas: W
- 18 Identify the factors that determine aircraft crash survivability.
STS: 13.1.6. Meas: W

7.1.4. Block IV Basic Medical Readiness Training (BMRT).

- 1 Identify provisions which pertain to medical personnel under the Laws of Armed Conflict, Geneva Conventions, and the Code of Conduct.
STS: 25. Meas: W
- 2 Identify specific facts about medical intelligence and C3I.
STS: 25. Meas: W
- 3 Identify the facts and principles pertaining to the USAF Medical Service Mission, Concept of Operations, Echelons of Care, and Blood Distribution Program.
STS: 25. Meas: W
- 4 Identify contributing factors and treatment of stress casualties.
STS: 25. Meas: W
- 5 After being issued field gear components, properly don and adjust each item to fit.
STS: 25. Meas: PC
- 6 Identify characteristics of the different types of nuclear, biological, and chemical agents and their effects. Identify the signs, symptoms, methods of detection, and decontamination of NBC agents.
STS: 25. Meas: W
- 7 Identify procedures for decontamination for self and casualty.
STS: 25. Meas: W
- 8 Demonstrate proper use of ensemble components used in the various MOPP levels.
STS: 25. Meas: PC
- 9 Identify the purpose of triage categories with relationship to treatment priorities.
STS: 25. Meas: W
- 10 Given the proper materials, apply the general procedures of wound management and care related to casualty assessment, hemorrhage control, and treatment of shock.
STS: 25. Meas: W/PC
- 11 Given the appropriate materials, apply general procedures for burn care.
STS: 25. Meas: W/PC
- 12 Apply general procedures of splinting and care related to fractures with no more than one instructor assist per task.
STS: 25. Meas: W/PC
- 13 Perform proper procedures used in one person and multiple person manual carries. Demonstrate the procedures for litter transportation and loading an Air Force Field Ambulance.
STS: 25. Meas: PC
- 14 Working as a litter team, be able to load and unload simulated casualties onto a C-130 military aircraft.
STS: 25. Meas: W/PC
- 15 Identify facts and procedures about safely erecting and striking a temper tent. Identify facts and procedures about safely opening and closing of ISO shelters.
STS: 25. Meas: W

7.1.5. Block V Principles of Aerospace Physiology Instruction.

- 1 Academic Subjects - Instructor's Role
CTS: 1a, A Meas: W
- 2 Academic Subjects - Instructional Systems Development Process
CTS: 1b, A Meas: W
- 3 Academic Subjects - Learning Process
CTS: 1c, B Meas: W
- 4 Academic Subjects - Evaluation Process
CTS: 1d, A Meas: W
- 5 Academic Subjects - Dynamics of small learning groups
CTS: 1e, A Meas: W
- 6 Academic Subjects – Communicative Process
CTS: 1f, B Meas: W
- 7 Academic Subjects - Questioning Techniques
CTS: 1g, 1a Meas: W
- 8 Developing and Reviewing Training Document - Objectives
CTS: 2a, B Meas: PC/W
- 9 Developing and Reviewing Training Document - Personalize Lesson Plans
CTS: 2b, 2b Meas: PC/W
- 10 Instructional Media - Select Instructional Aids
CTS: 3a, b Meas: W'
- 11 Instructional Media - Use and Techniques of Instructional Aids
CTS: 3b, b Meas: W
- 12 Preparing for and Conducting Instruction - Present a Military Briefing
CTS: 4a, 1a Meas: PC/W
- 13 Preparing for and Conducting Instruction - Present an Informal Lecture Lesson on duty related subjects or a demonstration/performance
CTS: 4b, 2b Meas: PC/W

7.2. Advanced Skills Course.

7.2.1. Aerospace Physiology Craftsman Exportable Course.

- 1 Introduction of course curriculum, policies and requirements.
- 2 Identify the career ladder progression, duties and educational opportunities available to the aerospace physiology 7 levels.
STS: 1.1. Meas: W
- 3 Identify terms, components, roles and functions of various physiological processes in the human body.
STS: 6.1.,6.2. Meas: W

7.2.2. Block I Aerospace Physiology Craftsman Resident Course.

- 1 Career Field Manager Briefing
- 2 Identify the career ladder progression, duties and responsibilities of the Aerospace Physiology 7-level craftsman.
STS: 1.2.,1.3.2. Meas: W

7.2.3. Block II Aerospace Physiology Craftsman Resident Course.

- 1 Outline the physical nature of the Earth's atmosphere as the working environment of all flying and space operations.
STS: 6.3.1. Meas: W
- 2 Illustrate the different gas laws important to aerospace physiology.

- 3 STS: 6.3.2. Meas: W
 Explain the anatomy and the physiology processes of human respiration and circulation.
- 4 STS: 6.2.4.,6.2.5. Meas: W
 Describe the effects of hypoxia on the physiological processes in the human body.
- 5 STS: 6.3.3. Meas: W
 Describe the problems associated with hyperventilation.
- 6 STS: 6.3.4. Meas: W
 Describe the symptoms, prevention and treatment for problems associated with the mechanical effects of pressure change.
- 7 STS: 6.3.5. Meas: W
 Describe the cause, signs and symptoms, factors affecting tolerance, prevention and treatment for decompression sickness.
- 8 STS: 6.3.6. Meas: W
 Using a lesson plan from the original aerospace physiology standardized curriculum, personalize and present a 30 minute lesson on a selected effect of altitude.
- STS: 6.3.,6.3.7. Meas: PC

7.2.4. Block III Aerospace Physiology Craftsman Resident Course.

- 1 Comprehend the various self-imposed stressors that are significant to aircrew.
 STS: 6.4.1. Meas: W
- 2 Identify the effects of fatigue and circadian rhythm disruption on human performance.
 STS: 6.4.2. Meas: W
- 3 Identify the effects of thermal stress on aircrew.
 STS: 6.4.3. Meas: W
- 4 Understand components and mechanisms of Situational Awareness.
 STS: 6.4.4. Meas: W

7.2.5. Block IV Aerospace Physiology Craftsman Resident Course.

- 1 Outline the potential limitations of vision with respect to flying.
 STS: 6.5.1. Meas: W
- 2 Identify the physiological hazards associated with Noise and Vibration.
 STS: 6.5.2. Meas: W
- 3 Outline the physiological principles associated with Acceleration and G Forces.
 STS: 6.5.3. Meas: W
- 4 Outline the devices and protective measures used to combat the effects of excess G Forces.
 STS: 6.5.3. Meas: W
- 5 Identify the physiological principles associated with Spatial Disorientation.
 STS: 6.5.4. Meas: W

7.2.5. Block IV Aerospace Physiology Craftsman Resident Course.

- 6 Given three profiles in the centrifuge, each student will recognize the physiologic effects of gradual and rapid G onset rates on the human body.
STS: 7.6. Meas: PC
- 7 Given a practical demonstration in the Advanced Spatial Disorientation Demonstrator (ASDD), each student will recognize the role and function of the vestibular apparatus and somatosensory systems.
STS: 7.5. Meas: PC

7.2.6. Block V Aerospace Physiology Craftsman Resident Course.

- 1 Determine the procedures for preparing the unit budget.
STS: 26.3.5. Meas: PC/W
- 2 Understand the documents used to determine manpower requirements.
STS: 26.3.3. Meas: W
- 3 Given workcenter scenario, each group (3-4 members) will update Unit Manning Documents with minimal instructor assistance.
STS: 26.3.3. Meas: PC
- 4 Understand the requirements for obtaining training allocations.
STS: 26.3.4. Meas: W
- 5 Determine the procedures for Depot level maintenance requests.
STS: 26.3.6. Meas: W
- 6 Determine the procedures for updating and maintaining manpower standards.
STS: 26.3.3. Meas: W
- 7 Given a workcenter scenario, each group (3-4 members) will determine the manpower requirements for an Aerospace Physiology Unit (APU), present a written and a verbal report on their findings.
STS: 26.3.3. Meas: PC

7.2.7. Block VI Aerospace Physiology Craftsman Resident Course.

- 1 Determine the procedures for effective management of suspected or actual Decompression Sickness cases (DCS).
STS: 8.1.4.6. Meas: PC/W

7.2.8. Block I Enlisted Human Performance Enhancement Course.

- 1 Describe how the study of human factors in aviation originated and how it has evolved into its current state, and project how it may evolve in the future.
STS: 26.4.1. Meas: O
- 2 Illustrate how CRM has become an integral part of aircrew training in the USAF today.
STS: 26.4.2. Meas: O
- 3 Outline the relationship between the physiologist, the flight doc and the other members of a safety investigation board (SIB).
STS: 26.4.3. Meas: O

7.2.9. Block II Enlisted Human Performance Enhancement Course.

- 1 Apply the latest information and research concerning fatigue countermeasures.
STS: 26.5.1. Meas: O
- 2 Summarize the very latest in vision/orientation research.
STS: 26.5.8 Meas: O

- 3 Interpret detailed information on G issues in fighter aircraft.
STS: Meas: O
- 4 Outline the current trends in over-the-counter nutritional supplementation.
STS: 26.5.4. Meas: O
- 5 Explain the importance of ergonomics to performance.
STS: 26.5.6. Meas: O
- 6 Explain the importance of stress management to performance.
STS: 26.5.7. Meas: P
- 7 Identify existing methods and technologies for visual enhancement and protection.
STS: 26.5.8. Meas: O

7.2.10. Block III Enlisted Human Performance Enhancement Course.

- 1 Elaborate on how individual, team and organizational SA is optimized.
STS: 26.6.1. Meas: P
- 2 Describe how technology has influenced and will influence warfighter SA.
STS: 26.6.2. Meas: O
- 3 Summarize the very latest in situational awareness research.
STS: 26.6.3. Meas: O

7.2.11. Block IV Enlisted Human Performance Enhancement Course.

- 1 Summarize the organizational side of human performance enhancement.
STS: 26.7.1. Meas: P
- 2 Summarize the organizational side of human performance enhancement.
STS: 26.7.2. Meas: P
- 4 Build a specific human factors shop visit checklist
STS: 26.7.4. Meas: O
- 5 Practice enhancing human performance in a short-notice pre-deployment scenario.
STS: 26.7.5. Meas: O
- 6 Demonstrate the ability to bring Human Performance Enhancement to the non-flying warfighter.
STS: 26.8.5. Meas: P

7.2.12. Block V Enlisted Human Performance Enhancement Course.

- 1 Explain the human factor challenges unique to heavy operations.
STS: 26.8.2. Meas: O
- 2 Explain the human factor challenges unique to helicopter operations.
STS: 26.8.2. Meas: O
- 3 Interpret and relate human factors lessons from aircraft mishaps.
STS: 26.8.4. Meas: P

7.2.13. Block VI Enlisted Human Performance Enhancement Course.

- 1 Demonstrate confidence and competence when briefing non-AFI 11-403 safety information to challenging audiences.
STS: 26.9.1. Meas: O
- 2 Analyze various methods of teaching human factors besides straight lecture.
STS: 26.9.2. Meas: O

Section C - Support Materials

8. The following list of support materials is not all inclusive; however, it covers the most frequently referenced areas.

Dorland’s Illustrated Medical Dictionary, 27th edition, W.B. Saunders Company, 1988.

Ernsting, John and King, Peter. Aviation Medicine, 2nd edition, Butterworths and Company LTD, 1988.

Gray, Henry. Gray’s Anatomy, 37th edition, Gramercy Books, 1977.

Guyton Arthur C., Textbook of Medical Physiology, 8th edition, W.B. Saunders Company, 1991.

Marieb Elaine N., Essentials of Human Anatomy & Physiology, 5th edition, Benjamin/Cummings Publishing Company, Inc., 1991.

National Fire Protection Association: “NFPA for Health Care Facilities NFPA 99” Quincy, Mass, 1996 edition.

National Fire Protection Association: “NFPA for Health Care Facilities NFPA 99B” Quincy, Mass, 1996 edition.

Suddarth, Doris. Lippincot, Manual of Nursing Practice, 6th edition, J.B. Lippincott Company, 1996.

Section D - Training Course Index

9. Purpose. This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

10. Air Force In-Residence Courses.

COURSE NUMBER	TITLE	LOCATION	USER
B3ABY4M031-001	Aerospace Physiology Apprentice	Brooks AFB	DOD
B3ACY4M071-000	Aerospace Physiology Craftsmen	Brooks AFB	DOD
B3AZY4M0X1-000	Aerospace Physiology Supervisor	Brooks AFB	DOD
L3AIR75200-002	Test and Measurement	Lackland AFB	DOD
()3AIR75200-003	Instructional System Development	Each TTWDOD	
L3AIR75200-000	Basic Counseling	Lackland AFB	DOD
L3AIR75200-013	Technical Writer Principles	Lackland AFB	DOD

L3AIR75200-007	Training Codes	Lackland AFB	DOD
MECI-100	ECI Course for Authors (CDC)	Gunter Annex	DOD
(*)3AIR735200-075	Basic Instructor Course	Each TTW	DOD
L4AIT75000-001	Principles of Aerospace Physiology Instruction	Brooks AFB	DOD
MAIS-001	Academic Instructor Course	Maxwell AFB	DOD
S-V80-A	Combat Survival Training Course	Fairchild AFB	USAF
S-V86-A	Water Survival Training Course	Pensacola NAS	DOD
S-V87-A	Arctic Survival Training Course	Eielson AFB	DOD
S-V90-A	Water Survival, Non-Parachuting	Fairchild AFB	DOD
5AZA1T231-001	Airborne (Parachutist)	Ft Benning	DOD
AM-490	Basic Free Fall Parachuting	USAFA	DOD
L5AZA1T231-006	Military Freefall Parachutist	Yuma PG	DOD
B3AZY4M051-002	Hyperbaric Chamber Enlisted Team Training	Brooks AFB	DOD
B3AZY4X0X1-005	Clinical Hyperbaric Medicine Technician Course	Brooks AFB	DOD

11. Extension Course Institute (ECI) Courses

<u>COURSE NUMBER</u>	<u>TITLE</u>	<u>LOCATION</u>	<u>USER</u>
4M051 CDC	Aerospace Physiology Journeyman	Brooks AFB	USAF

12. Exportable Courses

<u>COURSE NUMBER</u>	<u>TITLE</u>	<u>LOCATION</u>	<u>USER</u>
B3ACY4M071-000 4M051	Aerospace Physiology Craftsman	Brooks AFB	

13. Courses Under Development/Revision

<u>COURSE NUMBER</u>	<u>TITLE</u>	<u>LOCATION</u>	<u>USER</u>
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Section E - MAJCOM Unique Requirements

1. The following list of MAJCOM unique responses is not all inclusive; however, it covers the most frequently referenced areas.

NOTE: There are currently no MAJCOM unique requirements. This area is reserved.

Section F - Documentation of Training (Medical Specific)

1.1. Development of a Work Center Training Plan and the Enlisted Training and Competency Folder. The focus of this training guidance is to bring all training documentation back into one "OJT" record. Over the years, training documentation has taken on many forms. Previous restrictions imposed by AFR 50-23 On-the-Job Training, allowed only certain documents to be maintained in the OJT record. Changing medical training requirements created a need for additional ways to document training outside the OJT record. The end result was that each training location created different means to document training. Often a section might have training documented in three or more locations which made the training documentation and review process difficult to manage. Individuals involved in the training process, not to mention inspection teams, were finding it difficult to get a good overview of the training process, as they had to search through several different tracking folders to find the information they were looking for. Training documentation became very cumbersome to say the least. Air Force Instruction 36-2201 (Developing, Managing, and Conducting Training), Para 3.4.3. authorizes Career Field Managers to bring training documentation back into one "OJT" record, thus the creation of the Enlisted Training and Competency Folder. The following training information provides specific guidance along with recommended documentation, consistent with current Air Force instruction/directives. This training guidance has focused on two main areas: 1) Developing a Master Training Plan and 2) Documentation of the Training in the Enlisted Training and Competency Folder.

1.2. Developing a Master Training Plan (MTP)

1.2.1. What Is It? A Master Training Plan is a reference guide developed for each section that includes all facets of training for individuals assigned. It is to be used as a reference source for the type of training and training documentation that occurs with each assigned member. The MTP is used to standardize training and to give trainers, trainees, supervisors, NCOICs, and OICs an overview of the training process for the duty section. The MTP is also used as a means to reduce the amount of paperwork previously required during the training process.

1.2.2. What's In It? Keep in mind that the Master Training Plan is an overview of training for the duty section; it should include all documents involved in the training process for the duty section. Training will vary from section to section and person to person, but there are certain documents that will be a standard requirement for all MTPs. They are listed below.

1.2.2.1. Unit Specific Orientation Checklist

1.2.2.2. Job description for each duty position within the duty section (see AFMAN 36-2108)

1.2.2.3. Dual Channel OJT Concept

1.2.2.3.1. Career knowledge requirements

1.2.2.3.2. Job qualification requirements

1.2.2.4. Testing procedures for CDC's

1.2.2.5. Uses of AF Form 623 and Job Qualification Standards (*JQS's*)

1.2.2.6. Performance standards/position qualification training for each duty position

1.2.2.7. Master Career Field Education Training Plan (CFETP)

1.2.2.7.1. Identifies all tasks required for the duty section

1.2.2.7.2. Standardized reference source for initiating individual training

1.2.2.7.3 Impact of training on career progression

1.2.2.8. Qualification Training Packages (QTPs) required to perform peacetime/wartime duties

1.2.2.8.1. Required for all tasks identified in the CFETP that require completion of a QTP before certification.

1.2.2.8.2. Required for all tasks not listed in the CFETP and/or identified by the duty section as a high risk procedure or task. Note: the tasks included in the CFETP have already been reviewed. Those identified as high risk usually have a QTP. Other tasks in the CFETP **do not** require QTPs.

1.3. Documentation of Training. The Enlisted Training and Competency Folder

1.3.1. The purpose of this section is to provide guidelines and examples of proper documentation for the many forms used in training all medical personnel (4XXXX's). Training documentation helps us to assess readiness capability, individual strengths and weaknesses, and resources needed to support quality patient care. It also helps us meet all JCAHO and regulatory requirements. The Enlisted Training and Competency Folder is limited to the forms presented here and those prescribed in AFI 36-2201. Your unit training manager can also assist you with specific questions on training documentation.

1.4. Documents included in 4M0X1 Training Records_

1.4.1. To assemble a 4M0X1 training record, utilize a standard 6-part folder (NSN 7530-00-990-8884, Folder, 6 Section). Attach (Glue/tape/staple), centered on the front cover, a computer generated or typewritten title, "Enlisted Training and Competency Folder". In addition, include the members/trainee's full name (Last Name, First Name, Middle Initial), rank and SSAN. Other sections of the 6-part folder are discussed in detail in the paragraphs below. Parts 2 through 5 are intended to replace the existing AF Form 623 and the documents contained therein. Training documents normally filed in the AF Form 623 will be filed in the 6-part folder under parts 2 through 5 in the same sequence that they appear in the current AF Form 623. Index tabs/tabbed dividers may be used in parts that contain multiple documents. When multiple copies of any form are placed in the OJT record, they are placed in chronological order with the most current documentation on top. When building the new 6-part folder, the parts of the folder will contain the documents filed in the sequence, shown in figure 1.

ENLISTED TRAINING AND COMPETENCY FOLDER

Jones, William G.
SRA 123-45-6789

PART 1 - Locally required training & skills competency documentation - AF Form 55 - Safety Training - AF Form 803 - Task Evaluations	PART 3 - AF Forms 1098 -- Mandatory Tng (Section A) -- QTPs (Section B) -- Inservice (Section C)	PART 5 - AF Form 2096 - PC III documentation
PART 2 - AF Form 623B - CFETP - AF Form 797	PART 4 - AF Forms 623a -- Job Description/Performance -- Standards Review -- Orientation -- Training progress	PART 6 - Continuing Education to sustain National Certification (See Figure 8) <u>Behind divider:</u> - AF Certificates of Training (Copies/Originals) - Instructor Qualification Information (Optional)

Figure 1, Organization of the 4M0X1 OJT record.

1.4.2. Part 1, is the first two-pronged section, located inside the front cover. Locally required training & skills competency documentation is to be maintained in part 1, regardless of grade or training status.

1.4.2.1 AF Form 55 - *Employee Safety and Health Record* is also maintained in Part 1, regardless of grade or training status. AFI 91-301, *Air Force Occupational and Environmental Safety Fire Protection, and Health (AFOSH) Program*, June 1996, authorizes supervisors to file the AF Form 55 with the AF Form 623, On-The-Job Training Record. In addition, AF Form 803 - *Report of Task Evaluations* will be filed in this section.

1.4.3. Part 2, AF Form 623B and Career Field Education and Training Plan (CFETP):

Once procured, place the new 2-part form on the front and back of a standard letter size, cardstock divider or other similar size durable material. Punch two holes in the top of the divider (above the stick-on, first part of the new form), transfer all appropriate information from the old AF Form 623 to the new form, and place the divider with the new annotated form on top of all other forms located in Part 2 of the 6 part folder. This folder is now designed so that parts 2 and 5 are the equivalent of the old OJT folder, while parts 1 and 6 are additional sections designed to hold other training documents that were previously filed in other training folders or are unique to our medical AFSCs. **Note: Maintenance of AF Form 623 is mandatory for Airman in grades, Airman Basic through Technical Sergeant. In addition, an AF Form 623 is required for SNCOs, regardless of grade, in retraining status or as directed by the Air Force Career Field Manager, Commanders, or supervisors.** Insure all appropriate areas of the form are properly completed before posting in part 2. This document is formally recognized by the personnel system in contingencies and deployments as the official “cover” of the formal training record.

1.4.3.1 The Specialty Training Standard (STS) contained within the CFETP will be used to record training proficiency in mandatory core tasks and various tasks that are required for an individual to perform duties in a specific work area. A master task listing for the work center is maintained in the master training plan for the duty section. Circle all core tasks and only those other tasks the individual is required to perform in his/her current duty position.

1.4.3.2 AF Form 797, *Job Qualification Standard Continuation/Command JQS*. These forms will be used to document training for tasks that are not otherwise documented in the CFETP or tasks that are waived by the MAJCOM (see AFI 36-2201, para 7.4 and figure 2 below).

JOB QUALIFICATION STANDARD CONTINUATION/COMMAND JQS								
TASK NUMBER	TASK, KNOWLEDGE AND TECHNICAL REFERENCES	CERTIFICATION						COMPLETION DATE
		START DATE	CERTIFYING OFFICIAL'S INITIALS	TRAINEE'S INITIALS	MAJCOM DIRECTED USE ONLY			
1	Perform Visual Screening, TR: The Ophthalmic Assistant, 3rd Edition CDC 4V051, Vol 2							
2	Order Spectacles, TR: AF PAM 48-133, CDC 4Vo51, Vol 1							
3	Maintain prescription Logbook, TR: AF PAM 48-133, CDC 4V051							
TRAINEE NAME <u>Jones, William G.</u>								

AF FORM 797, MAY 87 (EF)

PREVIOUS EDITION IS OBSOLETE

Figure 2, Sample AF Form 797 documentation.

1.4.4. Part 3, AF Form 1098, *Special Task Certification and Recurring Training*. This form is used to document qualification in tasks that require recurring, mandatory, and/or inservice training. Although not mandated, this part can contain separate indexed tabs/tabbed dividers for the documentation of different categories of training. The following subparagraphs provide examples of how part 3 can be subdivided to document specific types of special or recurring training. AFSC 4N0X1 examples were used in illustrating AF Form 1098 documentation options.

1.4.4.1 AF Form 1098s in Part 3, Section A, documents mandatory recurring training (see figure 3). Examples are BLS training, Patient Sensitivity training, and other mandated training as stipulated by JCAHO standards, Air Force, or facility directives. Mandatory training requirements may vary from facility to facility. These requirements should, at a minimum, be reviewed on an annual basis and updated as required.

SPECIAL TASK CERTIFICATION AND RECURRING TRAINING							
TASK OR RECURRING TRAINING AND TECHNICAL REFERENCES A.	DATE COMPLETED B.	SIGNATURE OF CERTIFYING OFFICIAL C.	INITIAL OF TRAINEE D.	EVALUATION OF TRAINING			
				SCORE OR HOURS E.	TYPE F.	FRE-QUENCY G.	DUE DATE H.
BLS Training	1 Apr 95			4	C	Bi-enn	1 Apr 97
BLS Training							
Patient Sensitivity	20 Mar 95			P		A	20 Mar 96
Hospital Safety	12 May 95			P		A	12 May 96
QA&I	12 May 95			P		A	12 May 96
Infection Control	12 May 95			P		A	12 May 96
MANDATORY TRAINING DOCUMENTATION							
NAME OF TRAINEE <i>(Last, First, Middle Initial)</i> Jones, William G.		GRADE SRA		UNIT AND OFFICE SYMBOL SGNE			

AF FORM 1098, APR 85 (EF)

PREVIOUS EDITION WILL BE USED.

Figure 3, Sample mandatory, recurring training documentation

1.4.4.2. 1098s in Part 3, Section B, documents ongoing completion of Qualification Training Packages (QTPs) if applicable (see figure 4). The initial completion of a QTP is documented in the CFETP. ***Each QTP required for the duty section will be maintained in the Master Training Plan (MTP) and will be used as a training source document. Locally developed competency packages can be utilized until QTPs are available.***

SPECIAL TASK CERTIFICATION AND RECURRING TRAINING							
TASK OR RECURRING TRAINING AND TECHNICAL REFERENCE A.	DATE COMPLETED B.	SIGNATURE OF CERTIFYING OFFICIAL C.	INITIALS OF TRAINEE D.	EVALUATION OF TRAINING			
				SCORE OR HOURS E.	TYPE F.	FRE-QUENCY G.	DUE DATE H.
Sterilization Procedures QTP 4N0X1-Vol 1, Module 1	27 Apr 95		P			A	27 Apr 96
Blood from Venipuncture QTP 4N0X1-Vol 1, Module 7	5 May 95		P			A	5 May 96
IV Infusion/Blood Administration QTP 4N0X1-Vol 1, Module 12/13	10 May 95		P			A	10 May 96
NAME OF TRAINEE (LAST, FIRST MIDDLE INITIAL)			GRADE	UNIT AND OFFICE SYMBOL			

AF FORM 1098, APR 85 (EF)

PREVIOUS EDITION IS OBSOLETE

Figure 4, Sample ongoing QTP documentation.

1.4.4.3. AF Form 1098s in Part 3, Section C will be used to document inservice training (see figure 5).

SPECIAL TASK CERTIFICATION AND RECURRING TRAINING							
TASK OR RECURRING TRAINING AND TECHNICAL REFERENCES A.	DATE COMPLETED B.	SIGNATURE OF CERTIFYING OFFICIAL C.	INITIAL OF TRAINEE D.	EVALUATION OF TRAINING			
				SCORE OR HOURS E.	TYPE F.	FRE-QUENCY G.	DUE DATE H.
Legal Issues in Nursing Capt Reardon	12 Apr 95			1 Hour			
Eye Trauma Maj Blue	15 May 95			2 Hours			
Pediatric Emergencies Lt Col Johnson	22 May 95			1 Hour			
Special Diets for Med/Surg Pts Capt Tolle	6 Jun 95			1 Hour			
INSERVICE TRAINING DOCUMENTATION							
NAME OF TRAINEE (Last, First, Middle Initial) Jones, William G.			GRADE SRA	UNIT AND OFFICE SYMBOL SGNE			

AF FORM 1098, APR 85 (EF)

PREVIOUS EDITION WILL BE USED.

Figure 5, Sample inservice training documentation (4N0XX Model).

1.4.5. Part 4, AF Form 623a, *OJT Training Record Continuation Sheet/Automated product*. This form will be utilized to document all progress of individual training to include facility orientation, duty section specific orientation, upgrade/job qualification training progress/status, additional pertinent training, career development course (CDC) failures/corrective actions, skill level/task decertification procedures, and supervisor/trainer/certifier entries. The entire process must be well documented on this form (See Figure 6, 6.1, 6.2). All individuals involved in the training process must document training progress in this section, as it occurs. Progress/status of members in upgrade training will be documented *at least monthly*.

ON - THE - JOB TRAINING RECORD CONTINUATION SHEET	
14 Feb 1995	
SrA Jones is assigned to the Medical/Surgical ward on this date. SSgt Smith has been assigned as a trainer for SrA Jones. SSgt Smith will orient SrA Jones to the unit using the medical/surgical orientation checklist located in the Master Training Plan dated 17 March 94. An initial interview was accomplished on this date. SrA Jones enjoyed his hospital orientation and is looking forward to the unit orientation. He expressed his concern on meeting previously scheduled appointments while under the unit orientation. I informed SrA Jones that time to attend his appointments would be scheduled as needed. SrA Jones stated that his goals during the orientation process were to learn as much as possible and to question the trainers when he was not clear as to the training provided. SrA Jones seems to be very enthusiastic about working on the ward and has expressed his desire to take on any challenges that the trainers have to offer.	
SrA Jones	SSgt Smith Medical/Surgical Ward
27 Feb 1995	
A mid-orientation progress check was accomplished on this date. SrA Jones has progressed throughout the medical/surgical orientation checklist dated 17 Mar 94, with little to no difficulty. He completed his review of the unit specific OIs and has begun required reading of applicable hospital OIs. SrA Jones will complete the remainder of his orientation on night shift beginning 28 Feb 95.	
SrA Jones	SSgt Smith Medical/Surgical Ward
12 Mar 95	
SrA Jones has completed all training on the medical/surgical unit orientation checklist dated 17 Mar 94. A review of the checklist with SrA Jones indicates that he was knowledgeable of all items discussed. SrA Jones stated that he feels comfortable with the training provided and believes that he is ready to be released from orientation. I recommend SrA Jones be released from orientation on this date.	
SrA Jones	SSgt Smith Medical/Surgical Ward
Concur	Concur
MSgt Finish, NCOIC Medical/Surgical Ward	Capt Done, OIC Medical/Surgical Ward
SAMPLE ORIENTATION DOCUMENTATION	
_____ Last NAME - FIRST NAME - MIDDLE INITIAL	

AF FORM 623a, MAR 79 (EF)

PREVIOUS EDITION WILL BE USED

Figure 6, Sample Orientation Documentation

1.4.5.1. Upgrade Training (5-7-9 skill levels)

1.4.5.1.1 Document the members entry into upgrade training and periodic (minimum monthly) evaluations of training progress.

1.4.5.1.2. Information on extensions, waiver requests, or breaks in training should also be clearly documented with copies of any related correspondence.

1.4.5.1.3. Any further training pertinent to the duty section and or unit effectiveness can also be documented on the AF Form 623a; i.e. Job Qualification.

1.4.5.1.4. Document any decertification proceedings to include dates, reasons for decertification and other applicable information on the AF Form 623a.

1.4.5.1.5. Once an individual completes upgrade training commensurate to his/her rank and maintains an appropriate skill level, his/her supervisor should continue to review requirements, progress, and individual training needs. OJT record reviews should, at a minimum, coincide with members performance feedbacks to ensure documentation currency and appropriateness.

1.4.5.1.6. The Job Description/Performance Standards for each duty position should be maintained in a Master Training Plan (MTP) within individual duty sections. An AF Form 623a reflecting the members job description/performance standard will be maintained in Part 4 of the OJT record. Note: An AF Form 623A overprint/automated product may be used to document both supervisor/subordinate reviews (see figure 7). The following statements will be annotated and jointly reviewed by the supervisor/subordinate:

1.4.5.1.7. "I know where to find a current copy of my Job Description/ Performance Standards."

1.4.5.1.8 "I have read, discussed with my supervisor, and understand my Job Description/Performance Standards."

1.4.5.1.9 "I understand my duties and responsibilities for the position that I am currently working in ."

1.4.5.1.10 "If I have questions or concerns about my Job Description/Performance Standards, I will seek assistance from my supervisory personnel in my chain of command."

1.4.5.1.11 "It is my responsibility to review my Job Description/Performance Standards with my supervisor during each feedback session and with each change in supervisor/duty position."

1.4.5.1.12 A signature and date block for both supervisor and subordinate will reflect mutual understanding of above statements. Recommend several signature and date spaces for continual review process when overprint/automated products are utilized.

**ON - THE - JOB TRAINING RECORD
CONTINUATION SHEET**

**INITIAL BRIEFING
(Trainee Orientation)**

_____ has been briefed on the On-The-Job Training (OJT) Program and how he/she fits into the program while in upgrade training (UGT). Upgrade training was explained as a dual-channel process designed to qualify an airman for skill level upgrade. Dual-channel OJT is a systematic reportable application of self-study and the craftsman/apprentice principle. Trainees acquire job qualification while performing on the job under supervision. This combination, knowledge and job position qualification constitutes the dual-channel concept. Requirements from AFI 36-2101, 36-2108, and 36-2201 were covered. AF Forms 623, 623a, 797, 2096, and the CFETP, STS/JQS or automated JQS, which serves to make up the individual training record, was explained. Responsibilities of the commander, base training, unit education and training manager (ETM), immediate supervisor, trainer, and trainee were discussed. The career development course (CDC) was briefly discussed and will be explained in detail when the CDC arrives, if applicable. Requirements for upgrade in your AFSC _____ are: (1) Satisfactory completion of CDC _____; (2) Supervisor certify job qualifications with adequate hands on training; (3) Meet typing proficiency of _____ WPM per AFI 36-2108, if applicable; (4) Completion of 7-level school, if applicable and; (5) Supervisor recommendation for upgrade. Each airman in grades E1 through E6 (and SNCO's in retraining status) have an AF Form 623 which must contain a CFETP or JQS. The CFETP or JQS may contain 150 or more separate tasks but it should be annotated to show only those tasks the airman is required to perform in his/her current duty position, all AFI 36-2108 mandatory requirements for upgrade, and core task requirements. In the JQS there is a space for both the supervisor and the trainee to initial to certify training is complete. In the CFETP, the trainer, trainee, and certifier have a space to initial when training is completed. After upgrade the CFETP or JQS will continue to be used to document further qualification training.

SUPERVISORS SIGNATURE

TRAINEE'S SIGNATURE

DATE

AST NAME FIRST NAME MIDDLE INITIAL

L

AF FORM 623a, MAR 79

PREVIOUS EDITION WILL BE USED

Figure 6.1 Sample Initial Upgrade Training Briefing

**ON - THE - JOB TRAINING RECORD
CONTINUATION SHEET**

TRAINEE'S RESPONSIBILITIES DURING UPGRADE TRAINING (UGT)

1. Read and understand your Air Force Specialty (AFS) description, training requirements, objectives, and training record (AF Form 623).
2. Budget time (on and off-duty) for timely completion of CDCs and keep all CDC materials for future reference and study.
3. Attain and maintain qualification in your assigned AFS.
4. After CDC briefing trainee will do the following: (Read and initial)
 - _____ a. Read "Your Key to a Successful Course."
 - _____ b. Make all required course corrections and return entire package to your supervisor.
 - _____ c. When you are issued your first volume you will read and study the volume, chapter, and answer chapter review exercise (CRE) and the volume review exercise (VRE) or the self-test questions and the unit review exercises (URE). Questions are to be answered in the space provided when possible. Highlight/reference where answers are found in the most effective manner determined by the supervisor.
 - _____ d. Supervisor will check CRE and self-test questions for accuracy and completeness. You will correct all incorrect responses.
 - _____ e. Supervisor issues the ECI Form 34 (Field Scoring Sheet) for you to transcribe your answers from the URE/VRE. The URE/VREs are teaching devices and must be administered as open book exercises. All scores less than 100 percent require review training.
 - _____ f. Minimum acceptable training consists of correcting incorrect responses, reading the appropriate area from which the question was taken, and a verbal question and answer session.
 - _____ g. Your next volume is issued by your supervisor. You must work it in the same manner as above for the entire course.
 - _____ h. Upon completion of your last volume you and your supervisor will immediately start a comprehensive review of the entire CDC to prepare for your course examination.
5. Review and discuss training requirements with supervisor regularly. Provide input on your training and ask questions.
6. Upon satisfactory completion of your career knowledge training, position qualification, and mandatory requirements listed in AFI 36-2108, your supervisor will initiate upgrade action on you.

SUPERVISORS SIGNATURE

TRAINEE'S SIGNATURE

DATE

AST NAME FIRST NAME MIDDLE INITIAL

L

AF FORM 623a MAR 79

PREVIOUS EDITION WILL BE USED

Figure 6.2, Sample Upgrade Documentation

**ON - THE - JOB TRAINING RECORD
CONTINUATION SHEET**

23 July 1996

I know where to find a current copy of my Job Description/Performance

I have read, discussed with my supervisor, and understand my Job Description/Performance Standards. **

I understand my duties and responsibilities for the position that I am currently working in.

If I have questions or concerns about my Job Description/Performance Standards, I will seek assistance
my supervisory personnel in my chain of command.

It is my responsibility to review my Job Description/Performance Standards with my supervisor annually
with each change in duty position. **

William Jones, SrA
Medical/Surgical Ward
23 July 95

SrA Jones has completed his review of his Job Description/Performance Standards on this date. I am confident that
is thoroughly familiar with standards and expectations. At this time SrA Jones has no questions or

John Smith, TSgt, USAF
OJT Trainer
Medical/Surgical Ward

TRAINEE NAME
Jones, William G.

AF FORM 623a, MAR 79 (EF) PREVIOUS EDITION WILL BE USED

Figure 7, Sample job description/performance standards review.

1.4.6. Part 5, AF Form 2096, *Classification On-The-Job Training Action*. This form will be used to document official training actions, i.e. award of skill level. training status changes, decertifications, and award of special experience identifiers (SEIs). NOTE: A PC III automated document may be substituted for AF Form 2096.

1.4.7. Part 6, Continuing Education. This part will contain the National Certification/Registration and Continuing Education Reports as applicable to the members AFSC/current duty position, (see figure 8). The form must contain documentation of the individual's current certification card number and expiration date. **Supervisors and individuals should continually monitor CEU status for AFSC's requiring specialty certification to ensure no lapses in certification occur.** A sample of the National Registry of Emergency Medical Technicians (NREMT) form appears below.

1.4.7.1. Maintenance of certificates of training completion is an individual responsibility. Certificates of training will not be maintained in the OJT record. However, members must retain all certificates as verification of formal training.

1.4.7.2. Certificates of training directly relating to Air Force and local qualification(s) and Instructor Qualification information can be maintained under a separate cover in this part.

1.5. Supplemental AFSC-specific documentation instructions. Each Career Field Manager is authorized and encouraged to supplement or revise the general guidance contained in section F of the CFETP to ensure the documents filed in the 6-part folder accurately reflect the needs of their AFSC/Medical specialties.

