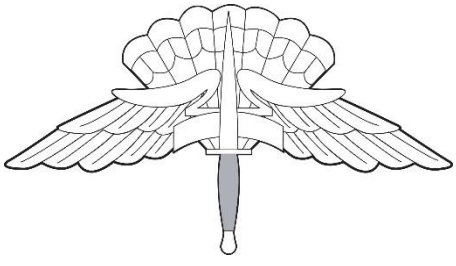
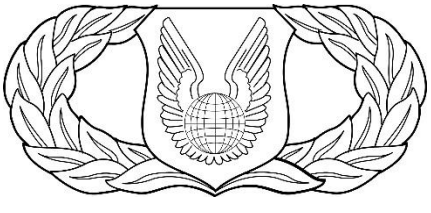
AFSC 1H0X1
AEROSPACE PHYSIOLOGY
TECHNICIAN





CAREER FIELD EDUCATION AND TRAINING PLAN
(CFETP)

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FORWARD

Fellow Aerospace Physiology Airmen,

Welcome to the Aerospace Physiology career field, home of Aircrew Training, the High-Altitude Intelligence Surveillance Intelligence support program, the High-Altitude Airdrop Mission Support program, Acceleration Training and Research. I praise you in advance for your selfless service and unwavering devotion to duty. As a member of the Aerospace Physiology career field, your mission is to maximize performance through education and mishap prevention efforts. Our Air Force Specialty accomplishes this by providing world-class training to optimize the warfighter while minimizing the negative impacts from human factors. You are now part of an elite group of Airmen. I encourage you to describe your accomplishments and unique experiences to your loved ones throughout your career as you achieve both personal and professional milestones.

Over my tenure as Air Force Career Field Manager, I've had the privilege of conducting numerous site visits and it's through active engagement with you, our Airmen, that I've been able to compile the necessary information to define how the Aerospace Physiology technician of tomorrow must be trained. In some respects, leadership is like an open book test, the answers are located in front of you, and all we need to do is listen. In my first message to the career field I stated, "I'm committed to ensuring your readiness, being deliberate in your development, and empowering every one of you to achieve greatness as Aerospace Physiology professionals." This Career Field Education and Training Plan sets the foundation to meet these commitments. Great support systems allow us to accomplish great things because we're stronger together. I can't say enough about the great work our Specialty Training Requirements Team (STRT) performed to help close the gap between Air Force requirements, career field expectations and the redesign of our training program. To that end, I want to take this opportunity to publicly thank the members of our team:

Chief Master Sergeant Becky N. Hale,
Senior Master Sergeant Christopher W. Booth,
Senior Master Sergeant Michael R. Stegen,
Senior Master Sergeant Tiffany N. Waldren,
Master Sergeant Francis A. Nacapuy, and
Chief Master Sergeant Andrew M. Flora,
Senior Master Sergeant Duane R. Thompson,
Senior Master Sergeant Omar G. Robinson,
Master Sergeant Dawn R. Edwards,
Master Sergeant Oscar Peña.

In addition, a special thanks goes out to our Training Pipeline Managers, Mrs. Caryn Warden and Senior Master Sergeant Kay R. May, our Training Manager, Mr. Walker Vandong and their respective teams for the outstanding support provided both at the STRT and behind the scenes. All of you are appreciated more than you realize.

In closing, please know, I continue to be honored to be your Air Force Career Field Manager and I've never been more excited to roll up my sleeves and continue to work on your behalf.

ISMAEL PÁEZ JR., CMSgt, USAF
Air Force Career Field Manager, 1H0X1

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CAREER FIELD EDUCATION AND TRAINING PLAN

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 the Aerospace Physiology specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training. To read, review, or print a copy of the current CFETP, go to https://www.e-publishing.af.mil/.

2. The CFETP consists of two parts; both of which are used by leadership 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, General Information explains how certifiers, trainers, trainees and specialty courses will use the plan.

Section B, Career Field Progression and Information identifies career field progression, duties and responsibilities, training strategies, and career field path.

Section C, Skill Level Training Requirements associates each skill level with specialty qualifications (knowledge, education, training, and other).

Section D, Resource Constraints lists deficiencies in resources needed to accomplish the training mission, such as funds, manpower, equipment, and facilities. *Note*: The *Air Force Enlisted Classification Directory* (AFECD) contains the specialty descriptions. Section E, Transitional Training Guide identifies transition training guide requirements for use with merging career fields.

Section E, Identifies transition training guide requirements for SSgt through MSgt and other Senior Noncommissioned Officers as required by the AF Career Field Manager.

2.2. **PART II** includes the following:

Section A, Specialty Training Standard (STS) includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, wartime course, core tasks, and correspondence course requirements.

Section B, Course Objective List identifies the standards supervisors will use to determine if Airmen satisfy training requirements.

Section C, Support Materials identifies available support materials. An example is a Qualification Training Package (QTP), which may be developed to support proficiency training. These packages are identified and made available on the official Air Force Electronic Publications website, along with the CFETP. Currently there is one 1H0X1 QTP: QTP1H0X1-1.

Section D, Training Course Index is a tool that supervisors can use to determine if resources are available to support training. Included here are both mandatory and optional courses.

Section E, Major Command (MAJCOM) unique requirements identifies specific requirements supervisors can use to determine if additional training is required for the associated MAJCOM unique qualification needs.

Section F, Technical References is a tool which cites current and accurate technical references vital to attaining additional knowledge for the trainee, the development of training programs, career development course (CDC)

material and specialty knowledge test (SKT) references.

3. This CFETP is designed to ensure individuals in AFSC 1H0X1 receive comprehensive and effective training at the appropriate phases of their career. Supervisors and trainers at respective work centers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

ABBREVIATIONS AND TERMS EXPLAINED

Aerospace Physiology Center of Excellence (AP CoE). The USAF AP Undergraduate Training Center located at Wright Patterson AFB, OH. Provides undergraduate, initial skills training through award of the 3-skill level, the Career Development Course (CDC) for the 5-skill level, and fulfills requirements via the AP Craftsman course required of the 7-skill level.

Advanced Training. A 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.

Aircrew Fundamentals Course (AFC). A course designed to prepare enlisted personnel for their transition to a career in aviation. Knowledge presented in the course includes physiological, survival, aircrew mission, anti-hijacking and anti-terrorism, aircrew coordination, aircrew training, basic aerodynamics, aircraft publications, safety and flight medicine. This course screens for the ability to handle the rigor of aircrew duties prior to candidates entering expensive follow-on training.

Air Force Career Field Manager (AFCFM). Representative appointed by the respective HQ USAF Deputy Chief of Staff or Under Secretariat, to ensure assigned AF specialties are trained and utilized to support AF mission requirements. The AFCFM is a CMSgt in the career field. This individual has the responsibility of writing the CFETP, reviewing and updating the CFETP periodically, working with the respective AETC training pipeline manager (TPM) and Training Manager (TM) and AP CoE to ensure technical training meets the needs of the career field. Additionally, the AFCFM works with the CDC writer to update CDC material to meet the ever changing needs of the career field. The AFCFM is also the waiver authority for matters concerning personnel who fail to meet upgrade standards.

Air Force Enlisted Classification Directory (AFECD). The official directory for all military enlisted classification descriptions, codes, and identifiers. Establishes the occupational structure of the Air Force enlisted force. The occupational structure is flexible to permit enlisted personnel to specialize and develop their skills and abilities while allowing the Air Force to meet changing mission requirements. Individual enlisted personnel have a joint responsibility with commanders and supervisors at all levels to fully develop their abilities consistent with Air Force needs and within the established patterns of specialization.

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

Air Force Specialty (AFS). An occupational specialty in the Department of the Air Force.

Aerospace Physiology Training Team (APTT). The APTT consists of 2 to 6 Aerospace Physiology personnel which provide input to wing commanders on human performance issues which may negatively impact combat capability. They assist in Operational Risk Management. They provide local oxygen systems and wing safety consultation on theater specific human factors and human performance issues. They develop human performance related threat briefs specific to the theater of operation based on local intelligence analysis, weather, and other operational/environmental conditions to increase mission effectiveness. The team also supports regional aircrews with aerospace physiology and human performance/human factors enhancement training.

Basic Aircraft Qualification (BAQ). An aircrew member who has satisfactorily completed training prescribed to maintain the skills necessary to perform aircrew duties in the unit aircraft.

Basic Mission Capable (BMC). An aircrew member who has satisfactorily completed mission qualification training, is qualified in some aspect of the unit mission, but does not maintain Mission Ready (MR), Combat Mission Ready (CMR) status.

Basic Qualification (BQ). A status of an aircrew member who has satisfactorily completed the basic training prescribed to maintain the skills necessary to fly on the unit aircraft. The member must perform at the minimum frequency necessary to meet the most recent sortie and flight standards set for that weapons system.

Career Enlisted Aviator (CEA). An aircrew member in any of the 1AXXX or 1UXXX career fields.

Career Development Course (CDC). Self-study correspondence course to provide Airmen fundamental knowledge of their AFS.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, multi-purpose 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, eliminate duplication, and ensure this training is budget defensible.

Continuation Training (CT). Additional training exceeding formalized requirements with emphasis on present or future duty assignments. The continuation training program provides individuals the volume, frequency, and mix of training necessary to maintain proficiency.

Core Task. Identifies the minimum qualification requirement for all personnel within an AFS, regardless of duty position.

Course Training Standard (CTS). A document identifying the training tasks in a specific course.

Crew Resource Management (CRM). The effective use of all available resources, people, weapon systems, facilities and equipment, and environment - by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term "CRM" is used to refer to the training program, objectives, and key skills directed for successful mission accomplishment while in the performance of flight duties.

Distance Learning (DL). Training that is exported, such as from a resident course, to a field location for trainees to complete without the on-site support of the formal school instructor. Includes video tele-seminar (VTS), video tele-training (VTT), and computer-based training (CBT).

Enabling Learning Objective (ELO). An ELO states the instructor's expectations of student performance and the steps in accomplishing the Terminal Learning Objective (TLO).

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.

Education and Training Course Announcements (ETCA). The ETCA, located at https://cs2.eis.af.mil/sites/app10-ETCA/SitePages/Home.aspx, contains specific MAJCOM procedures, fund citations, reporting instructions, and listings for formal courses conducted or managed by the MAJCOMs or field operating agencies (FOAs).

Faculty Folder. A folder required as a Community College of the Air Force (CCAF) instructor, to monitor initial and qualification training, as well as, subject matter qualification training. All documentation concerning evaluations, practicum, college transcripts, CCAF progress reports, and degree contracts are to be maintained, depending on specific requirements listed in the current CCAF Campus Relations, Policies, Procedures, and Guidelines.

Flying Training Unit (FTU). Name given to a MAJCOM school conducting flight training.

Functional Area Manager (FAM). Individual responsible for the management and planning of all personnel and equipment within a specific functional area to support wartime and peacetime contingencies. The FAM for AP is AF/A3T.

Go/No-Go. The "Go" is the stage at which a trainee has gained enough skill, knowledge, and experience to perform the tasks without supervision; meets the task standard. "No-Go" is the stage at which the trainee has not gained enough skill, knowledge, and experience to perform tasks without supervision; does not meet task standard.

High Altitude Airdrop Mission Support (HAAMS). Operations involving Aerospace Physiology personnel supporting unpressurized aircraft flights to include High Altitude Low Opening (HALO)/High Altitude High

Opening (HAHO) personnel and equipment drops, equipment testing and research, humanitarian aid operations, and Psychological Operations (PsyOps) missions in safety and life support monitoring roles.

High Altitude Intelligence Surveillance and Reconnaissance (HAISR). The HAISR program encompasses physiological support provided to U-2 aircraft operations.

Interactive Courseware (ICW). A training program controlled by a computer that relies on trainee input to determine the order and pace of instruction delivery. The trainee advances through the sequence of instructional events by making decisions and selections. The instruction branches according to the trainee's responses.

Initial Qualification Training (IQT). Training needed to qualify personnel as Aerospace Physiology Technicians. This training is accomplished via the AFC, APA, and respective SERE courses prior to an Airman's first duty assignment.

Initial Skills Training. A formal resident course that results in an award of the entry level AFSC (e.g. Aerospace Physiology Apprentice course).

Instructional Systems Design (ISD). ISD is the systematic development of instructional specifications using learning and instructional theory to ensure the quality of instruction. It is the entire process of analysis of learning needs and goals and the development of a delivery system to meet those needs. Includes; implementing, validating, managing, and reviewing instructional programs. Ensures personnel are taught the knowledge, attitudes, and skills essential for successful job performance in the most cost efficient manner.

Lead Command. A MAJCOM responsible for an assigned weapons system. Lead Commands establish advocacy for designated weapon systems during their life cycle and clarify responsibilities for all using and supporting organizations. They provide primary input into the process of developing and maintaining a force structure with a balance for complementary capabilities.

MAJCOM Functional Manager (MFM). Primary focal point and liaison between the MAJCOM and HQ USAF on all matters relating to the career field within the command. This includes, but is not limited to, responsibility for the non-career enlisted aviator training programs, coordination on non-rated aircrew resource allocations, and managing education, training, and resources for a specific career field(s) for that MAJCOM.

Major Weapons Systems (MWS). Several like Mission Design Series (MDS) comprise a Major Weapons System (MWS) category (e.g., the bomber MWS is comprised of the B-1, B-2, and B-52 MDSs).

Master Task Listing (MTL). A comprehensive list of all tasks performed within a work center and consisting of the current CFETP or AFJQS and locally developed AF Form 797, *Job Qualification Standard Continuation/Command JQS* . As a minimum it identifies all tasks performed in the work center. The MTL should include tasks required for deployment and/or UTC requirements. This document can be automated.

Master Training Plan (MTP). A comprehensive training plan for a work center. It will include the MTL, AFJQS, CFETP, QTP, AF Form 797, task breakdowns, commercial publications, milestones for completion and any other documents that supports training.

Mission Ready (MR). An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

Mission Qualification Training (MQT). MQT is a MAJCOM approved unit specific program and requirements must be completed prior to operating as a mission qualified AP Technician.

Non-Career Enlisted Aviator (non-CEA). A non-CEA is a non-rated aircrew member.

Occupational Analysis Survey. A survey comprised of occupational tasks performed within a particular AFS.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey.

On-the-Job Training (OJT). A delivery method used to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training. It is hands-on, over-the-shoulder training conducted at the duty location.

Practicum. A means of receiving college credits through Community College of the Air Force (CCAF) Teaching Technology Associates Degree Program for formal schoolhouse instructors. It covers a wide variety of subjects beyond initial instructor qualification.

Proficiency Training. Training designed to reinforce existing qualifications. Includes additional training, exceeding initial training requirements, with emphasis on present or future duty assignments.

Qualification Training. Actual hands-on, task performance-based 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 skill/knowledge training required to do the job.

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

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 (OJT) to qualify and upgrade Airmen in the award of a skill level.

Specialty Training Requirements Team (STRT). A team comprised of the AFCFM and SMEs who meet prior to a Utilization and Training Workshop. The primary purpose of the STRT is for the AFCFM and functional leaders to determine and present training requirements to AETC and to the Technical Training Schoolhouse.

Specialty Training Standard (STS). An Air Force publication that describes an Air Force specialty in terms of tasks and knowledge that an airman in that specialty is expected to perform or to know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFS. It further serves as a contract between Air Education and Training Command (AETC) and the functional user to show which of the overall training requirements for an Air Force Specialty Code (AFSC) will be taught in formal schools and which will be taught by Career Development Courses (CDC).

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.

Subject Matter Expert (SME). An individual qualified in a particular specialty and who is consulted with for his or her subject matter expertise or knowledge of the specialty.

Syllabus. Published outline of training required to achieve the proficiency specified in the course training standards for a specific course. It prescribes the course content, instructions to conduct the training, and the approximate time necessary to successfully complete all requirements. A formal syllabus may be published to include IQT, MQT, CT, and other training as determined by the training command, MAJCOM, or unit. (Formal and standardized syllabus are used primarily in AETC formal or developed courses.)

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

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

Terminal Learning Objective (TLO). A TLO states the instructor's expectations of student performance at the end of a specific lesson or unit. Each TLO includes a condition, task, and a standard.

Teaching Internship. A CCAF approved student teaching course, consisting of at least 120 contact hours of classroom, aircraft, and/or laboratory instruction and an additional 60 hours of lesson plan preparation, use of audiovisual aids, test administration, academic counseling of students, instructor performance feedback, and subject matter testing.

Technical Reference (TR). Technical References can be in various formats and can be military in origin/nature or commercial products. For the purposes of this document, they have been deemed necessary to attain the proficiency identified in the STS and are indexed in Part II of the CFETP, Section F, and Table 8.

Upgrade Training (UGT). Mandatory training which leads to the award of a higher skill level.

Utilization and Training Workshop (U&TW). A forum of the AFCFM, MFMs, and AETC to determine career field training requirements. U&TW is an executive decision meeting used to resolve resource issues.

Wartime Tasks. Those tasks that must be taught when courses are accelerated in a wartime environment. In response to a wartime scenario, these tasks will be taught in the 3-skill level course in a streamlined training environment. These tasks are only for those career fields that still need them applied to their schoolhouse tasks.

SECTION A - GENERAL INFORMATION

1. PURPOSE. This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into four areas: initial skills, upgrade training (UGT), qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion required for award of the 5-, 7-, and 9-skill levels. Qualification training 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 training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to maintain their skills and knowledge beyond the minimum required. The CFETP has several purposes, some of these are:

1.1. It serves as a management tool to plan, manage, conduct, and evaluate a career field training program.

1.2. It identifies task and knowledge training requirements for each skill level in this specialty and recommends training and education throughout each phase of an individual's career.

1.3. It lists training courses available in the specialty, identifies sources of training, and the training medium.

1.4. Identifies major resource constraints that impact full implementation of the desired specialty training program.

2. USES. The CFETP will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

2.1. Training personnel will develop and revise formal resident, non-resident, and exportable training based on requirements established by the user and documented in Part II of the CFETP. The lead command MFM will coordinate with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills 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 in this plan and must not duplicate available training resources.

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

3. COORDINATION AND APPROVAL. The AFCFM is approval authority. MAJCOM Functional Managers and AETC training managers will identify and coordinate through proper channels all initial and subsequent changes to the career field training requirements. The AFCFM will initiate an annual review of this document and coordinate with AETC and designated members of the STRT to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Send applicable inputs/changes to this CFETP through MAJCOM Functional Managers to HQ USAF/A3TH, Attn: Air Force Career Field Manager, 1H0X1, 1480 Air Force Pentagon, Washington D.C. 20330-1480 or the following organizational email address: AF.A3.TH@us.af.mil.

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 found in the AFECD.

4.1. Specialty Summary. Manages physiological functions and activities. Performs in-flight duties as a non-career enlisted aviator (non-CEA). Performs aircrew functions and other mission specific qualification in-flight duties as non-CEA to include the airdrop of personnel and equipment/cargo. Operates and monitors aircrew breathing systems and personnel oxygen systems. Develops a thorough understanding of human factors principles and fundamentals, analytic methods and techniques, performance processes, system design, sensation and perception, and cognitive psychology. Operates and maintains aerospace physiology training devices included but not limited to altitude chambers, spatial disorientation trainers, lateral drift trainers, swing landing trainers, reduced oxygen breathing devices (ROBD), centrifuge, unaided night vision trainers, and other related training equipment. Instructs and observes personnel on/for physiological symptoms on simulated flights to altitude. Instructs in a classroom, and manages Aerospace Physiology assets. Trains flying/non-flying personnel in subjects related to physiology, human factors, and aviation safety. Other areas of responsibility include high altitude airdrop mission support (HAAMS), personal parachute program participation, parachute familiarization training, flying duties as a non-CEA, Aerospace Physiology team training, high altitude intelligence surveillance and reconnaissance (HAISR), and fighter aircrew acceleration training. The hazards of high altitude and the dynamic mission and training environment demand a high degree of attention, focus, professionalism, knowledge, skill, discipline, coordination, and stress management to successfully and safely carry out related duties. Related DoD Occupational Subgroup: 132400.

4.2. Duties and Responsibilities.
4.2.1. Conducts classroom, laboratory, and operational training.
4.2.2. Plans, organizes, directs, and conducts Aerospace Physiology training activities.
4.2.3. Determines training schedules according to course control documents, directives, policies, and instructional principles.
4.2.4. Uses lecture, demonstration and performance, guided discussion, case study, and time and circumstance instructional methodology.
4.2.5. Provides instruction on the following subjects: Introduction to human factors in aviation, physiological effects of altitude, performance threats, aircrew breathing systems, cabin pressurization and decompression, pressure breathing, vision, and unaided night vision, spatial disorientation, noise and vibration, principles of CRM, attention management threats to SA, acceleration, physiological considerations of aircraft egress, Barany chair, altitude chamber, and ROBD lecture.
4.2.6. Briefs students on proper parachute landing fall (PLF) techniques and instructs swing landing trainer/lateral drift trainer procedures.
4.2.7. Instructs students in use of oxygen masks, full-pressure suits, antigravity suits, flight clothing, emergency and portable oxygen systems, night-vision goggles, and other high altitude protection equipment.
4.2.8. Instructs and supervises students in fitting, adjusting, and maintaining breathing systems and other personal equipment, and use of oxygen regulators, ejection seats, and crew worn equipment.
4.2.9. Conducts lectures, discussions, and demonstrations to indoctrinate flying, parachuting and non-flying warfighters on physical and physiological stresses and human performance implications of military aviation, and worldwide deployment environments.
4.2.10. Administers tests on physiology topics covered in lectures and trainer indoctrination.
4.2.11. Emphasizes the application of human factors principles with real-world scenarios and environments.
4.2.12. Develops and implements programs designed to enhance safety, mission effectiveness, and provide just-in-time training to aircrew and support personnel on human performance/human factors issues.
4.2.13. Instructs on topics to include physiological factors involved in acceleration, exposure to thermal burden, pressurized cabins and rapid decompression, high altitude escape, vision, theory of operation for night vision devices, sensory illusions and various in-flight oxygen emergencies.

4.3. Non-Career Enlisted Aviator (non-CEA):
4.3.1. Establishes, supervises, and directs AP non-CEA training program.
4.3.2. Evaluates non-CEA activities ensuring compliance with technical manuals, regulations, and work standards.
4.3.3. Serves on or directs flight inspection teams to evaluate in-flight duties and operational programs.
4.3.4. Plans, organizes and coordinates flight activities with flying organizations.
4.3.5. Directs standardization of physiological duties and ensures conformance with prescribed aircrew procedures.

4.3.6. Inspects and evaluates in-flight Aerospace Physiology activities.
4.3.7. Interprets and discusses evaluation findings, and recommends action to correct deficiencies.
4.3.8. Advises organizational commander or staff agencies on status of physiological activities and adequacy of equipment.
4.3.9. Maintains universal aircraft qualification.
4.3.10. Primary Flight Duties:
4.3.10.1. Observe, evaluate, and assist with the unique physiological demands of the MDS.
4.3.10.2. Observe, evaluate, and assist with human factors/human performance challenges within the MDS and/or mission set.
4.3.10.3. Observe, evaluate, and assist with aircrew breathing systems and aircrew interface.
4.3.10.4. Provide Operational Safety, Suitability, and Effectiveness (OSS&E) lessons learned to existing aircrew training platforms and human systems integration.
4.3.11. Routinely accesses classified material in performance of duties.
4.3.12. Individuals selected for the AP career field, inherently volunteer to enter qualification training to perform in-flight duties in an aircraft as non-rated aircrew members.

4.4. High Altitude Airdrop Mission Support (HAAMS):
4.4.1. Conducts cargo and personnel airdrops according to directives.
4.4.2. Operates aircrew and parachutist breathing systems and supervises aircrew and personnel for signs and symptoms of physiological impairment.
4.4.3. Inspects, operates, and maintains HAAMS oxygen equipment.
4.4.4. Deploys and supports alerts in support of higher-headquarter directed requirements.

4.5. High Altitude Intelligence Surveillance and Reconnaissance (HAISR) Support:
4.5.1. Fits, inspects, operates and maintains full pressure suits, survival kits and associated equipment and support associated flight operations.
4.5.2. Deploys and supports alerts in support of worldwide ISR requirements.

4.6. AP Mishap Mitigation:
4.6.1. Performs and assists in mishap investigations, prepares reports, and maintains records.
4.6.2. Gathers and analyzes mishap data, identifies causes, recommends corrective actions and develops training to prevent future mishaps.
4.6.3. Performs/assists as human factors consultant for flight, occupational, weapon, and space mishap boards.
4.6.4. Interacts with flight medicine, wing safety and other base agencies as human factors consultant.

4.7. Parachute Qualified Personnel:
4.7.1. Serves as SME for emergency parachuting techniques in support of high altitude parachutists, Undergraduate Flying Training, and Aerospace Physiology Aircrew Training.
4.7.2. Performs static line and/or military free fall duties.

4.8. Core AP Technician Duties:
4.8.1. Schedules and operates altitude chambers to simulate changes in barometric pressure experienced in flying.
4.8.2. Operates spatial disorientation devices to simulate sensory and visual misperceptions.
4.8.3. Operates centrifuge for aircrew training.
4.8.4. Operates weapon system procedural, swing land trainers (SLT) and lateral drift trainers (LDT).
4.8.5. Operates and maintains the reduced oxygen breathing device (ROBD).
4.8.6. Establishes routine storage, inspection, and maintenance procedures for aircrew flight equipment used by the physiology-training program.
4.8.7. Uses various types of test equipment to conduct reliability testing on aircrew breathing systems and oxygen regulators.
4.8.8. Observes students for signs of hypoxia, decompression sickness, and other physiological injury or illness.
4.8.9. Inspects and evaluates aerospace physiology equipment and procedural activities.

5. SKILL/CAREER PROGRESSION. A quality training and timely progression from the apprentice to the superintendent skill level plays an important role in the Air Force's ability to accomplish its mission. Everyone involved in training must do their part to plan, develop, and manage an effective training program. This part of the CFETP provides guidance to ensure individuals receive viable training at appropriate points in their career. The following narrative identifies an individual's career training path and requirements.

5.1. **Apprentice (3) Level.** Initial skills training in this specialty consist of tasks and knowledge provided in the two-week Aircrew Fundamentals Course located at Lackland AFB, TX. Upon graduation from the AFC, AP personnel attend the 3-skill level resident Aerospace Physiology Apprentice (APA) Course located at the 344th TRS/Det 2, AP CoE at Wright-Patterson AFB, OH. The APA Course is a six week program that provides students with the skills and knowledge to perform the duties identified in the STS, Part II of this CFETP. Upon graduating from the APA Course, AP personnel attend the two day, S-V85-A (Emergency Parachute and Water Survival Training) followed by the 10-day S-V97-A (Advanced SERE Skills Training) prior to arrival at their first duty station.

5.2. **Journeyman (5) Level.** Upgrade training to Journeyman consists of completing the appropriate Career Development Course (CDC), time in training (24-months/initial and 12-months for retraining), completion of the Qualification Training Package (QTP), and mandatory core tasks as needed for upgrade in the CFETP/Master Training Plan (see part 1 and part 2 of the CFETP). Supervisors may identify and standardize local tasks for upgrade. Additional upgrade training requirements include attendance to the High Altitude Airdrop Mission Support (HAAMS) Course, attendance to the USAF Night Vision Goggle Academic Instructor Course (NVGAIC), and attaining a minimum of 6-flying hours while in UGT. To enhance their skills, AP personnel are highly encouraged to continue their education toward a Community College of the Air Force (CCAF) degree and to take certification examinations (reference Table 4. AP certifications.).

5.3. **Craftsman (7) Level.** Upgrade training to Craftsman consists of being a staff sergeant (SSgt) select, time in training (12-months/initial and 12-months for retraining), mandatory core tasks as needed for upgrade in the CFETP/Master Training Plan (see part 1 and part 2 of the CFETP). Supervisors may identify and standardize local tasks for upgrade. Additional upgrade training requirements include completion of the in-resident AP Craftsman Course, attendance to the Mishap Investigation Non-Aviation Course, and attendance to the Aircraft Mishaps Investigation Course. The Aerospace Physiology Craftsman Course will incorporate the Human Factors Workshop for AP professionals. Upon completion of Airman Leadership School (ALS), Airmen can perform duties as trainers and supervisors and be considered for appointment as unit trainers. An Aerospace Physiology Craftsman is expected to fill various supervisory and management positions. In addition, they develop work and training schedules for subordinate personnel and ensure necessary manning levels are maintained at all times during hours of operation. Personnel certified as Craftsman should take the AF Supervisor Course at the earliest opportunity. Members are highly encouraged to complete their CCAF and continue their education toward a Bachelor's or Master's degree and have a professional certification e.g. CAsP, AHP, CHFACS (See Table 4, for certification descriptions).

5.4. **Superintendent (9) Level.** Upgrade training to Superintendent consists of attaining the rank of SMSgt, qualification in and possession of AFSC 1H071, and 7-years' experience in the AFS. A 9-skill level can be expected to fill positions such as Superintendent or various staff positions. Additional training in the areas of budget, manpower, resources, and personnel management should be pursued through continuing education. While the CCAF itself is no longer required, an associate's degree or higher is mandatory for promotion to Senior Master Sergeant, according to AFH 36-2618, *The Enlisted Force Structure*. Completion of a Bachelor's degree or pursuit of a Master's degree is also encouraged.

5.5. **Chief Enlisted Manager (CEM, 1H000) Training Requirements.** The individual will be awarded AFSC 1H000 when selected for Chief Master Sergeant.

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 career field. The CFETP includes a strategy for when, where, and how to meet these training requirements. The strategy is apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training. The following training decisions were made at the career field STRT meeting held at the 344th TRS located at JBSA-Lackland TX, from February 28 – 4 March 2022.

6.1. **Initial Skills Training**. The Aircrew Fundamentals Course (AFC) was added as part of IST. Initial altitude chamber training will be conducted as part of AFC at JBSA-Lackland TX, so as to provide additional time for students on DNIF status ample opportunity to complete a subsequent altitude chamber exposure at Wright Patterson, AFB at the AP CoE. IST will be revised to provide knowledge and training required of AP graduates in the performance of indispensable instructor competencies. Similarly, personnel will receive Centrifuge orientation. Additional emphasis will be placed on the roles technicians perform with regard to altitude chamber positions, maintenance, and inspection items revolving around APs main training simulator (the Altitude chamber). SERE

training (S-V85-A, and S-V97-A) is incorporated into IST and will be accomplished en route to a Technical (School) Training Graduate's (TTG) first duty assignment.

6.2. **Five Level Upgrade Training.** Core tasks were modified to emphasize job survey and specified career field requirements. The CDC was expanded to include 7-level volume/s. In August of 2019, the career field determined it needed to expand its ability to impart mishap mitigation efforts by broadening the curriculum qualifications for enlisted personnel. This transformation came to be known as "Aircrew Trainer" fundamentals. To ensure our enlisted corps is set for mission success in that regard, this STS captures the expansion of curriculum qualifications for personnel in 5-skill level upgrade. In January of 2019, HAF/A3 designated Aerospace Physiology as Non-Rated Aircrew and 7-skill level authorizations- and above were designated to conduct aircrew duties. In September of 2022, HAF/A3 expanded the Non-Rated designation to include 5-skill levels and above. Based on the previously mentioned, newly established flying requirements have been incorporated as part of the 5-skill level upgrade program. The successful completion of the following courses are required to attain a 5-level upgrade: HAAMS Course, USAF NVG Academic Instructor Course (NVGAIC) and a minimum 6-flying hours while in UGT.

6.3. **Seven Level Upgrade Training.** Must complete all 3-and 5-skill level training requirements. The Human Factors Workshop for AP professionals was added as an extension of the Aerospace Physiology Craftsman (APC) Course as a knowledge gate for all 7-level course attendees. Additionally, the mishap investigation non-aviation (MINA) Course, and Aircraft Mishap Investigation Course (AMIC) were added as prerequisites to attaining a 7-level upgrade. STRT participants made this decision as AP personnel are not prepared (through experience and knowledge) for institutional requirements lobbied on our AFS. These courses competently prepare AP 7-levels to be Aircrew Trainers, Human Factors and SIB experts.

6.4. **Nine Level Upgrade Training.** Must complete all 7-skill level training requirements. Must complete the AP MAJCOM Functional Manager Course, and AP Flight Chief (APFC) Course throughout their career and must have 7-years' experience in the AFS.

6.5. **Notable updates**. Newly established entry requirements took effect on April 2022 via the publishing of the AFECD. The AFECD reflects changes to the ASVAB aptitude category to include development of new minimum entry scores. The aptitude category was changed from Admin to General and the minimum entry scores were adjusted from A/48 to G/50. The newly established aptitude entry requirements were applied to meet Aircrew Trainer and non-CEA demands. These updates place AP in line with all operations career group AFSCs which compete in the "General" aptitude category. Additionally, demonstrated weight requirements were updated to reflect 60 lbs. since, over a third of the career field is required to lift 65 - 110 lbs. as part of their day to day duties.

7. COMMUNITY COLLEGE OF THE AIR FORCE (CCAF) CAREER FIELD PATH. The CCAF provides enlisted members the opportunity to obtain an Associate in Applied Sciences (AAS) degree. Enrollment in the CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but it is highly encouraged. See the CCAF web site for program details regarding the AAS degree at: http://www.au.af.mil/au/ccaf. Additionally, see the Air Force Virtual Education Center website regarding AAS degree progress at: https://my.af.mil/afvecprod/. In addition to its associate degree program, the CCAF offers the following:

7.1. **CCAF Instructor Certification (CIC).** The CCAF offers the CCAF Instructor Certification (CIC) Program for qualified instructors who teach CCAF collegiate-level credit awarding courses at a CCAF affiliated school. The CIC is a professional credential that recognizes the instructor's extensive faculty development training, education and qualification required to teach a CCAF course, and formally acknowledges the instructor's practical teaching experience. The CIC program is a three-level program consisting of three specific levels of achievement. For details on the program reference Air University website.

7.2. **Instructor of Technology & Military Science Degree.** This program is offered to enlisted members who are assigned to CCAF affiliated schools teaching CCAF degree-applicable courses. Reference paragraph 8 for details.

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 totaling 60 semester hours. The associate's degree program available from the CCAF for AFSC 1H0X1 is the Aerospace Physiology Technology (7GAN) degree. The 5-skill level must be awarded prior to nomination for graduation. A minimum of 15 semester hours of CCAF Institutional credit must be applied to graduate and can be fulfilled through technical education, Leadership, Management and Military Science (LMMS), and/or Program Electives and the requirements in Tables 2, 3, and 4., must be met.

7.5. **Technical Education** (24 semester hours): A minimum of nine (9) semester hours of CCAF institutional credit awarded from specialty-related formal training must be applied toward Technical Core subject requirements. Technical Electives may be satisfied by CCAF credit or other sources in-transfer.

Table 1. Degree Requirements

Technical Core	***Maximum Semester Hours***
Introduction to Aerospace Physiology	6
Life Support Equipment Systems	6
Hypobaric Chamber Operations	6
Instructional Methodology	6
Physiological Training Management	6
Respiratory & Circulatory Physiology	3
Survival Training	6

Table 2. Technical Electives

Technical Elective	***Maximum Semester Hours***
CCAF Upgrade Training	15
Computer Science	6
Emergency Medicine	3
General Biology	3
General Chemistry	3
General Psychology	3
Guidance and Counseling	3
Human Anatomy & Physiology	3
Introduction to Aeronautical Science	3
Meteorology	3
Microbiology	3
Molecular and Cell Biology	3
Pre-Calculus/Calculus	6
Physics	3
Specialty-Related Subjects In-Transfer	9
Statistics	3

7.6. **Leadership, Management & Military Studies** (6 semester hours): Professional military education, civilian management courses accepted in transfer and/or by testing credit.

7.7. **Program Elective** (15 semester hours): Courses applying to technical education, LMMS or general education requirements; natural science courses meeting general education requirement application criteria; foreign language credit earned at Defense Language Institute; maximum 9 semester hours of CCAF degree-applicable technical course credit otherwise not applicable to program of registration.

7.8. **General Education** (15 semester hours): Applicable courses must meet the General Education Requirement (GER) subject criteria and in-transfer requirements.

Table 3. General Education

Subjects/Courses	***Semester Hours***
Written Communication (English Composition)	3
Oral Communication (Speech)	3
Mathematics	3
Social Science	3
Humanities	3
See the *CCAF General Catalog* for details regarding the AAS degree program for this specialty.	

8. **The Instructor of Technology and Military Science (ITMS) degree program.** The ITMS program is available to AP personnel who are assigned or previously assigned to an instructor "T" prefix at the AP CoE. Applicants must complete three semester hours of CCAF approved instructor methodology coursework and hold their career field related CCAF degree or equivalent civilian college degree before registration. If the instructor methodology credit earned in the apprentice course is applied to the Aerospace Physiology Technology degree, it cannot be used for the ITMS degree. Technicians have the option of using the credits for this course in either of the two degrees available. The journeyman (5) level (or fully qualified equivalent) must be held at the time of program completion. Registrants must complete the program within two years from initial date of registration and have a documented 12 semester (180 contact hours) CCAF Teaching Internship transcribed. Twenty four semester hours to include a minimum of 12 semester hours of technical core subjects or courses must be applied and the remaining semester hours applied from technical core or technical elective subjects or courses. Requests to substitute comparable courses or to exceed specified semester hour values in any subject or course must be approved in advance.

9. **Professional Certifications.** A well trained and educated force is the key to our nation's prosperity. The NCO corps is the backbone of our Air Force because it has the best educated enlisted force in the world. It is vital for commander's at all levels to encourage personnel to take advantage of these opportunities. Approval of these certifications enable physiology technicians to obtain, professional credentials. Professional credentials are those that are demanded to fulfill specific requirements identified of an authorization. The owning unit will fund the cost of the initial certifying exam, and the maintenance of the certification and recertification fee. Certifications assist the professional development of Airmen by broadening their knowledge and skills. Additionally, specific certifications may be awarded collegiate credit by CCAF and civilian colleges.

9.1. Squadron Commanders will approve unit funding/reimbursement for the examination fee and funded TDY (if indicated) for the initial examination if the eligibility requirements are met and funding is available. Squadron Commanders will not authorize reimbursements if the military has previously paid for a testing attempt for this certification/recertification or if the member has received other military or government funds for the same purpose.

9.2. Funding will only be provided for the first attempt to pass the examination. Funding will not be approved for members after a failed attempt of the same, or similar, certification or recertification. The AF will not fund additional charges or fees incurred due to late registration.

9.3. Squadron Commanders will not provide funding to Airmen who have requested orders and/or have approved orders to retire or separate from the Regular Air Force in the next 12 months. Reimbursements may be subject to recoupment if members retire or separate prior to 12 months from funding approval.

9.4. In most instances, the Education and Training Officer or Unit Training Manager is the point of contact to assist with contacting certification agencies and to request these examinations at the duty location.

Table 4. AP certifications.

Certifying Agency	**Certification/ Examination Title**	**Note**
The council of the Aerospace Medical Association (AsMA)	Aerospace Physiology Board Certification/ Certification in	The objectives of the certification program are: 1) To encourage the study, improve the practice, and elevate the standards of excellence in Aerospace Physiology. 2) To provide an avenue for professional and peer recognition.

	Aerospace Physiology	https://www.aerospacephysiologysociety.org/casp
Human Factors Analysis and Classification System, Incorporated (HFACS, Inc)	Associate HFACS Professional (AHP)/AHP Exam	https://hfacs.com/certification.html
	Certified Human Factors Analysis and Classification System (HFACS) Professional	Certified Human Factors Analysis and Classification System (HFACS) Professional/ 1. Submit an application for CHP certification 2. AHP designation achieved and verified by the HFACS administrator 3. Complete/submit a work product using HFACS 4. Renew certification annually Acceptable Work Products •Document completion of 10 Accident Investigations or Analyses. Confidential information should be redacted. • HFACS nano-codes selection based upon AF needs. • An essay detailing how you intend to implement HFACS into your AF systems and processes. •An article you have written in a professional journal regarding the use of HFACS. https://hfacs.com/certification.html
Human Systems Integration	HSI Certificate Program	To be awarded the HSI certificate, students must complete four courses as specified below. Credits for each course are indicated in parentheses. If taking one course per quarter, this program can be completed in 12 months. **Core Courses (3 courses, 12 credits):** These courses provide a common breadth of knowledge and the basic building blocks for the HSI professional. These courses include HFEN 560: Human Factors Engineering, HFEN 565: Human Systems Domains, HFEN 668: Integration of Human Considerations During Acquisition. **Electives (1 course, 4 credits):** This course provides additional depth in the human systems integration. Eligible courses include HFEN 620: Human Performance Modeling, HFEN 663: Human Computer Interaction, HFEN 665: Human-Agent Interaction and HFEN 670: Human Interaction Technologies. https://www.afit.edu/en/programs.cfm?a=view&D=47

10. **Air Force Credentialing Opportunities On-Line (AF COOL).** The AF COOL Program is managed by CCAF and provides a research tool designed to increase an Airman's awareness of national professional credentialing and funding opportunities available for all Air Force occupational specialties. While the professional certification program is mandated to fulfill specific mission requirements, the AF COOL program is voluntary and therefore not required. AF COOL also provides information on specific occupational specialties, civilian occupational equivalencies, AFSC-related national professional credentials, credentialing agencies, and professional organizations. AF COOL contains a variety of information about credentialing and licensing and can be used to:

- Identify civilian licensure and certification on individual credentials including eligibility requirements and resources to prepare for an exam.
- Identify licenses and certifications relevant to an AFSC.
- Learn how to fill gaps between Air Force training and experience and civilian credentialing requirements.
- Get information on funding opportunities to pay for credentialing exams and associated fees.
- Learn about resources available to Airmen that can help them gain civilian job credentials.

To learn more about AF COOL and funding processes, visit https://afvec.us.af.mil/afvec/public/welcome.

11. **Air University Associate to Baccalaureate Cooperative Program (AU ABC Program).** Directs Airmen with Associate in Applied Science Degrees from the CCAF to a collection of accredited military friendly colleges and universities to consider when completing a four-year degree. The program maximizes the application of military career education and training, and provides a multitude of online academic and support services for the enlisted member.

12. **Additional Off-Duty Education.** Off-Duty education is a personal choice that is encouraged for all. Individuals desiring to become an AETC Instructor should be actively pursuing an associate degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

13. AEROSPACE PHYSIOLOGY CAREER FIELD PATH:

13.1. **Enlisted Development Team.** The 1H0X1 Enlisted Development Team (EDT) charter was authored and received HAF approval for implementation in August of 2021. The first AP EDT vectoring board took place in April of 2022. The AP EDT charter provides vectors based on projected (or anticipated) requirements by grade, level, and position type. Through a vectoring process the EDT provides a collective recommendation for an experience level, training or education opportunity, or position type for an Airman's next or subsequent assignment. The 1H0X1 EDT charter reviews and outlines the training, education, and experience requirements for the most critical AP duty positions, and provides a vector for the best qualified Senior Noncommissioned Officers (SNCOs) into key AP leadership positions.

Table 5. Key Developmental and Leadership positions.

Key Developmental Positions	
Force Manager, Aerospace Physiology Training Operations	AP CDC Writer
AFGSC Functional Manager, 1H0X1	AFSOC Functional Manager, 1H0X1
Key Leadership Positions	
Force Development Manager, Aerospace Physiology	Force Manager, AP Policy and Programs
AMC, Functional Manager, 1H0X1	Senior Enlisted Leader, 9th Physiological Support Squadron
Senior Enlisted Leader, AP CoE	Senior Enlisted Leader, Air Force HAAMS center

13.2. **Enlisted Career Path.** The following charts depict a complete picture of education, training, and assignment positions through all 1H0X1 skill levels. Information outlined in each of these figures represent an optimal "snapshot" of the Aerospace Physiology career field as of the publication date of this CFETP. The Air Force Enlisted Classification Directory, contains a specialty summary, duties and responsibilities, and specialty qualifications for all AFSCs. Figures 1a, 1b, and 1c, contain developmental and skill-level Career Path Charts, while Table 6, contains the Career Development Plan for the 1H0X1 Air Force specialty.

Figure 1a. Functional, Career Broadening, Developmental special duty and Leadership Paths.

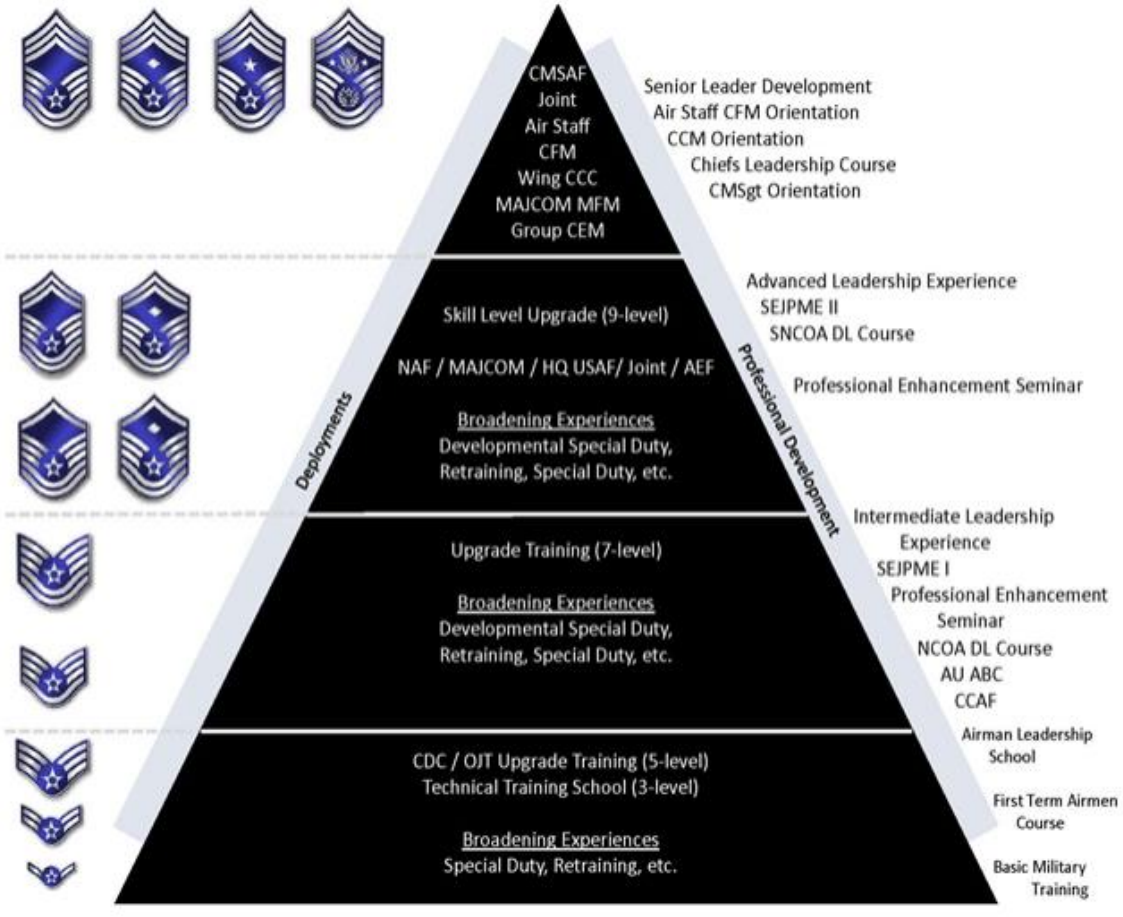

Figure 1b. 3-Level / 5-Level Career Path Chart

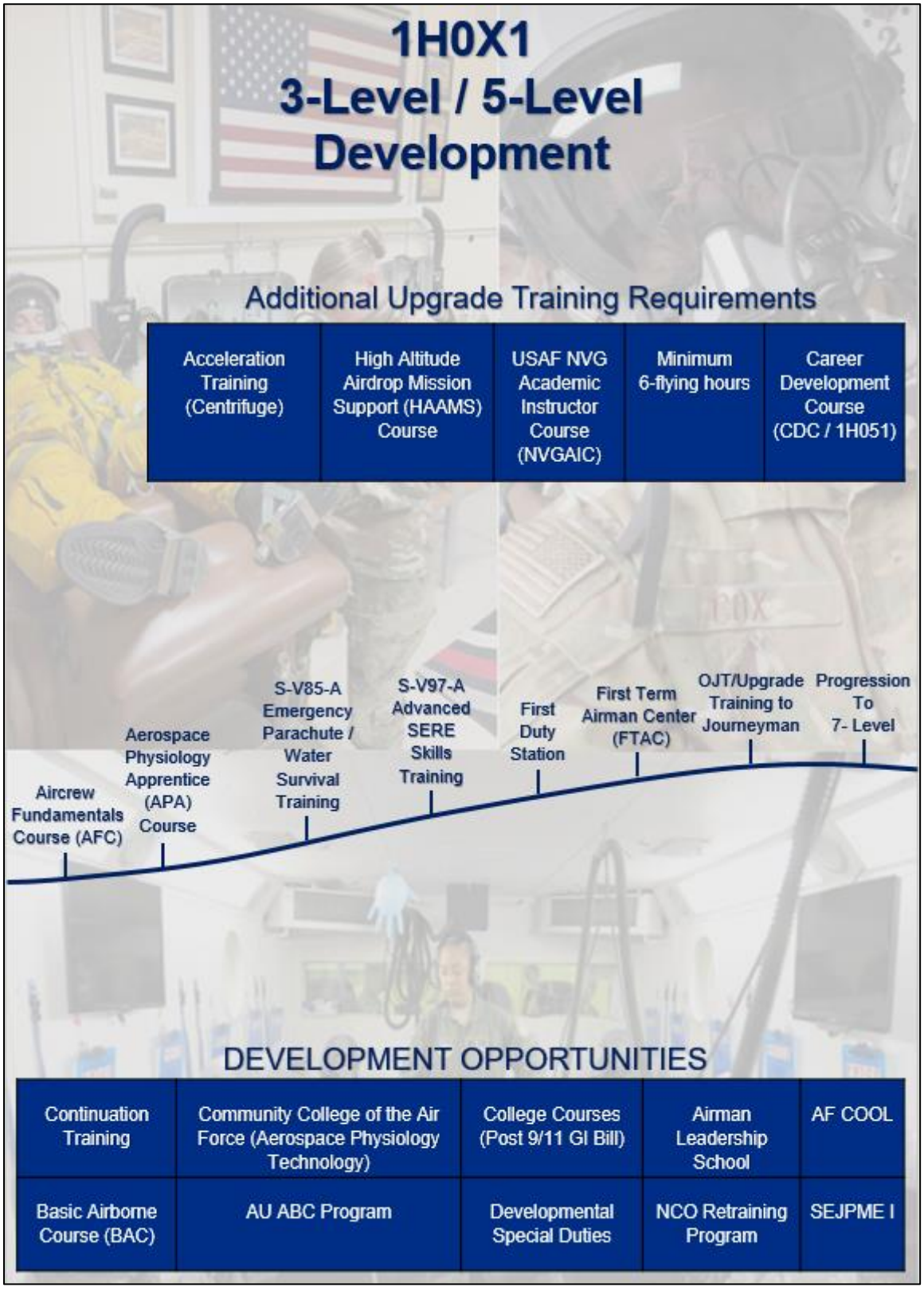

Figure 1c. 7-Level / 9-Level Career Path Chart

Table 6. AP Career Development Plan				
Phase	**Skill Level**	**Desired Education, Self-Development**	***Mandatory Training**	**Typical Assignment**
CFM	00-level	-- Graduate Degree	-- Executive Seminars	HQ USAF
CEM	00-level	-- Graduate Degree	-- Executive Seminars	MAJCOM/FOA/DRU
Superintendent 	9-level	-- Bachelor's Degree -- Appropriate PME -- Continued education in advanced studies	-- AP MFM course -- AP Flight Chief course -- Professional certification(s)	Assigned at MAJCOM, or other headquarters, or large bases staff in a variety of functions (Force Manager, AP Policy and Programs, Force Development Manager AP, Force Manager Physiology Training Operations, MAJCOM Functional Manager, etc.)
Craftsman 	7-level	-- Commence Bachelor's degree via AU ABC program -- Appropriate PME -- Continuing education in related studies	-- Career Development Course (CDC) 1H071 -- Aerospace Physiology Craftsman (APC) course -- Mishap Investigation Non-Aviation Course (MINA) -- Aircraft Mishap Investigation Course (AMIC) -- Human Factors Workshop for AP Professionals -- OJT and Qualification Training	-- Assignment at all levels as manager or craftsman -- Full performance as a manager of a AP function (Flight Chief, Section Chief, NCOIC)
Journeyman 	5-level	-- Continuation training -- Appropriate PME -- College courses/CCAF Aerospace Physiology Technology	-- Career Development Course (CDC) 1H051 -- OJT and Qualification Training -- High Altitude Airdrop Mission Support (HAAMS) course -- USAF NVG Academic Instructor Course (NVGAIC) -- Minimum 6-flying hours while in UGT	-- Initial duty assignment -- Performs at the fully qualified Journeyman level -- Begins management training -- Lateral training in other functional disciplines
Apprentice 	3-level	Continuation training (Some college courses)	-- Aircrew Fundamentals Course (AFC) -- Aerospace Physiology Apprentice (APA) course --S-V85-A (Emergency Parachute and Water Survival Training) --S-V97-A (Advanced SERE Skills Training) -- On-the-Job Training	Initial duty assignment

14. **OPERATIONS SUPPORT BADGE.** Established in 1993, the AF Operations Support Badge was originally awarded to enlisted personnel compromising four specialties: safety, survival training, life aircrew support, and pararescue. The Air Force Operations Support Badge displays an olive wreath wrapped around a shield displaying a globe with a pair of wings. The AP enterprise commenced a transition from a historical AFMS AFSC to a Line of the Air Force (LAF) AFSC. Beginning 31 October 2021, the AP career field adopted the AF Operations Support badge as its new occupational badge.

Figure 2. Basic badge.

Figure 3. Senior badge.

Figure 4. Master badge.

14.1. The Operations Support badge is awarded in three distinct types: Basic, Senior, and Master Level. Both Officers and Enlisted wear the Basic badge after completion of ***AFSC-awarding courses***. The senior badge is awarded upon attaining the 7-skill level for Enlisted or 7 years in the career field for Officers. The Master badge is awarded upon sewing on the rank of Master Sergeant (MSgt) and with 5 years in AP from award of the 7-skill level or a total of 15 years in the career field for Officers. Individuals are highly encouraged to wear their current occupational badge while following guidance outlined in DAFI 36-2903, *Dress and Personal Appearance of Air Force Personnel.*

15. JOINT SERVICE QUALIFICATION BADGES. As of 17 January 2014, airmen are authorized to wear any qualification/skill badge they have earned on Air Force uniforms. The qualification badges listed below are joint badges that are specifically awarded by the Air Force as well as other services. The AP parachute duty and military free fall (MFF) programs represent the career field's effort to enhance readiness, human operational performance, provide critical physiology training and support DAF mishap prevention efforts. This program also increases mission effectiveness and safety by providing the very best instruction via experienced parachutists as platform instructors.

Table 7. Mandatory Requirements for wear of Parachutist Badges.

Badge	Months of Service and Formal Training	Number of Jumps	Applicable Notes and Additional Requirements
Basic Parachutist	See AFMAN 11-402	5	Note(s): 1,2, 7, and 8
Senior Parachutist	Complete 24 months on jump status with an organization with an assigned parachute jump mission.	30 Static Line Jumps	Notes(s): 1-5, 7, 8, 10, and 11. Additional requirements: Jumpmaster qualified.
Master Parachutist	Complete 36 months on jump status with an organization with an assigned parachute	65 Static Line Jumps	Notes: 1-4, 6-8, and 10. Additional requirements: Jumpmaster Qualified
Basic Military Freefall Parachutist	Graduate of the USAFJFKSWC Military Freefall Course or a service approved Military Freefall course	Based on course	Notes: 8, 9, and 12.
Master MFF Parachutist	On MFF status for a total of 36 months with an organization assigned a	N/A	Notes: 1-4, and 8-11 Additional requirements: - Must be a qualified Master

	military freefall parachute jump mission		Parachutist (static line) - MFF Jumpmaster qualified

1. Members qualified for aviation/parachutist service and currently assigned to (or approved for assignment to) a "J" coded DAFSC billet or jump inherent DAFSC billet IAW AFMAN 11-402.
2. Member must be medically qualified IAW DAMAN 48-123. (T-1). Down status is considered to be qualified for the purpose of this table.
3. Time spent in a training course leading to initial qualification as a parachutist does not fulfill the time requirements listed in "Months of Service and Formal Training" column.
4. To earn a month of badge credit, members must meet performance requirements IAW AFMAN 11-421. A month of hazardous duty incentive pay entitlement equals one month of badge credit. Months need not be consecutive.
5. The 30 jumps must include: (1) Two jumps during the hours of darkness; (2) Fifteen jumps with operational equipment IAW AFMAN 11-402; (3) Perform one night jump as a Primary Jumpmaster; and (4) Seven jumps performing as Primary Jumpmaster.
6. The 65 jumps must include: (1) Four jumps during the hours of darkness; (2) Twenty-five jumps with operational equipment IAW AFMAN 11-402; (3) Two night jumps performing Primary Jumpmaster duties; and (4) Fifteen jumps performing as Primary Jumpmaster.
7. Do not count non-military jumps toward individual total jumps. Other US military service jumps may apply toward total jumps.
8. All awarded parachutists badges are permanent unless revoked. Use the course completion certificate and Army order for award of the basic parachutist and basic Military Free Fall badge. Personnel who meet the requirements for wear of an advanced USAF parachutist badge must apply by submitting completed AF Form 196, ARMS Request Data for Parachutist Badge, to the servicing Host Aviation Resource Management office. The servicing Host Aviation Resource Management office will maintain a copy of the member's application in the jump record folder. The servicing Host Aviation Resource Management office maintaining the member's jump record folder will publish the aeronautical order for authorized individuals. In addition, the effective date of the aeronautical order is the date individual met all applicable criteria.
9. Personnel, who obtain Military Free Fall qualifications prior to March 1998, are authorized to wear the Military Free Fall badges without submitting an application.
10. Parachutists, who are disqualified from parachute duty before fulfilling advanced qualification, criteria are not eligible for advanced badges.
11. Jumps made on non-standard systems are only counted toward the parachutist badge when those jumps are military in nature or as part of a USAF Operational Test and Evaluation mission.
12. Includes graduates of the Military Airlift Command High Glide Ratio Parachute Course and US Special Operations Command certified Navy Military Free Fall course.

Figure 5. Basic Parachutist.

Figure 6. Senior Parachutist.

Figure 7. Master Parachutist.

Figure 8. Basic Military Freefall Parachutist

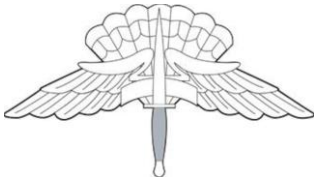

Figure 9. Master MFF Parachutist

16. **PERMANENT AWARD OF USAF AIRCREW MEMBER BADGES.** A non-CEA may qualify for an aircrew member badge when the member is: (1) qualified for aviation service, (2) assigned an active or inactive flying status code, and (3) not separated, suspended, or disqualified from aviation service. The servicing Host Aviation Resource Management office permanently awards the basic airman aircrew member badge to a career enlisted aviator or other non-rated aircrew member effective the date the member satisfies the requirement listed in Table 6. Aerospace Physiology personnel may wear the Enlisted Aircrew Badge upon completion of Initial Certification prior to satisfying the requirements for permanent award in accordance with Table 6.

Table 8. Mandatory Requirements for Permanent Award of the Enlisted Aircrew Badge.

Badge	Months of Operational Flying Duty	Flight Time	Applicable Notes and Additional Requirements
Air Force Enlisted Aircrew Badge	Non-CEA enlisted aircrew: complete 18 months of aviation service **and**	12 paid months of operational flying duty	Notes: 1-3
Senior Enlisted Aircrew Badge	Non-CEA enlisted aircrew: Permanent award of basic badge and completed at least 7 years aviation service **and**	26 paid months of operational flying duty **or** at least 350 total hours logged as a non-CEA.	Notes: 1-3
Chief Enlisted Aircrew Badge	Non-CEA enlisted aircrew: Permanent award of basic and senior badges and completed at least 15 years aviation service **and**	72 paid months of operational flying duty **or** at least 750 total hours logged as a non-CEA.	N/A

1. Non-CEA enlisted aircrew members duty only includes time performed in aviation service code "9D." Aviation service begins with the aviation service date. Periods of suspension, disqualification, breaks in service or any time served in other than aviation service code "9D" do not count towards aviation service (except Aviation Service Code "07").
2. To earn a month of badge credit, non-rated officer or non-CEA aircrew must meet in-flight duty performance requirements in accordance with DoD FMR 7000-14.R.
3. Grandfathering: Do not amend or revoke Aeronautical Orders (AOs) for non-CEA aircrew previously awarded badges under previous AFI criteria. Members who met the Airman Aircrew Member Badge requirements under AFMAN 11-402_AFGM2020-01 must provide supporting documentation that substantiates period(s) assigned to aviation service code "9D" to the servicing Host Aviation Resource Management office for update of the member's Aviation Resource Management System record.

Figure 10. Basic Enlisted Aircrew Badge.

Figure 11. Senior Enlisted Aircrew Badge

Figure 12. Chief Enlisted Aircrew Badge.

16.1. X-Prefixed Aerospace Physiology Enlisted personnel will complete an initial and periodic open book examination. Test questions are randomly generated from a test bank maintained by AF/A3T, Officer and Enlisted Career Field Managers for Aerospace Physiology. Upon successful completion of the examination, Aerospace Physiology personnel will receive a Universal Qualification in all USAF aircraft. Record successful completion of the initial open book exam on an AF Form 4324 in Block 22 (Qualification/Certification).

16.1.1. For Enlisted, use the date annotated on the AF Form 2096 that awards the 5-skill level.

16.1.2. All periodic examinations will be recorded on the AF Form 1522.

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

17. PURPOSE. Skill level training requirements in this career field are defined in terms of task, knowledge and performance 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 and the Course Objective List in Part II, Section B of this CFETP.

17.1. **Specialty Qualifications:** This information is located in the official specialty description in AFECD.

17.1.1. **Knowledge.** Knowledge of anatomy and physiology is mandatory, and knowledge on the physiological effects of flight is highly desirable.

17.1.2. **Education.** For entry into this specialty, completion of high school or general educational development equivalency is mandatory. Additional courses in Science, Technology, Engineering, and Mathematics (STEM) are desirable. A minimum score of 50 is required on the General portion of the Airman Qualifying Examination (AQE).

17.1.3. **Training.** For award of AFSC 1H031, individuals must meet mandatory requirements listed in specialty description in the Air Force Enlisted Classification Directory (AFECD). Completion of the Aircrew Fundamentals Course (AFC), S-V85-A (Emergency Parachute and Water Survival Training), and S-V97-A (Advanced SERE Skills Training) is mandatory for pipeline and non-aviation service cross training students. In addition to the above, completion of the Aerospace Physiology Apprentice (APA) course is mandatory for award of the 3-skill level AFSC.

17.1.4. **Other.** The following are mandatory as indicated:
17.1.4.1. For entry, award, and retention of this AFSC:
17.1.4.2. Must meet Physical qualification for non-rated enlisted positions in accordance with DAFMAN 48-123, *Medical Examinations and Standards*, Initial Flying Class III (IFCIII) flight qualification exam. ***EXCEPTION***: For retention of 1H0X1 AFSC, the Air Force Career Field Manager, 1H0X1, may waive the physical qualification.
17.1.4.3. Must meet depth perception requirements as defined in DAFMAN 48-123.
17.1.4.4. Qualification for aviation service according to AFMAN 11-402, *Aviation and Parachutist Service*.
17.1.4.5. Members assigned to "X" prefix authorizations will maintain physical qualifications as non-career enlisted aviator according to DAFMAN 48-123.
17.1.4.6. Members assigned to "J" prefix authorizations will maintain physical qualifications as parachutist according to DAFMAN 48-123. All parachutists will maintain qualifications and currency requirements IAW AFI 10-3503, Personnel Parachute Program.
17.1.4.7. Must maintain eligibility to deploy and mobilize worldwide.
17.1.4.8. Must meet height requirements in accordance with DAFMAN 48-123.
17.1.4.9. Must maintain local network access IAW AFI 17-130, *Cybersecurity Program Management* and AFMAN 17-1301, *Computer Security*.
17.1.4.10. Specialty requires routine access to Tier 3 (T3) information, systems or similar classified environments.
17.1.4.11. Completion of a favorable adjudicated personnel security investigation and a national security clearance determination. The commander may make interim security access determination IAW DoDM 5200.02, AFMAN 16-1405, *Air Force Personnel Security Program*.

17.1.5. **Training Sources and Resources.** Completion of the APA course satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 3-skill level.

17.1.6. **Implementation.** Entry into training is accomplished by initial accessions from Basic Military Training School (BMTS) or approved retraining from any AFSC. Upon completion of the required courses listed in paragraph 17.1.3., an AP technician begins UGT to attain their 5-skill level via OJT and NLT 60-days from arrival to their initial duty assignment and completion of the appropriate JQS and CDC. Thereafter, upgrade training is initiated anytime an individual is assigned duties they are not qualified to perform.

18. JOURNEYMAN 5-LEVEL TRAINING:

18.1. **Specialty Qualification.** All qualifications for AFSC 1H031 apply to the 1H051 requirements.

18.2. **Knowledge.** Knowledge in the following subject matter is mandatory: physiology instruction fundamentals, AP non-CEA duties and responsibilities, the Aerospace Physiology Training Team (APTT) program, fatigue countermeasures, physiological events in the altitude chamber, and the reduced oxygen breathing device (ROBD), flight theory; navigation procedures to include chart reading; using survival equipment and oxygen breathing systems; communication procedures; aircraft emergency procedures; publications, and flight manuals.

18.3. **Education.** Appropriate PME. Additionally, an AP Technician should complete the required courses in pursuit of their CCAF Aerospace Physiology Technology Associate in Applied Science degree.

18.4. **Training.** The following training is mandatory for the award of the 5-skill level: completion of the 1H051 CDC, OJT and qualification training, completion of the HAAMS and NVGAIC courses and a minimum of 6-flying hours while in 5-skill level UGT.

18.5. **Experience.** Qualification in and possession of AFSC 1H031. In addition, the individual must complete the CDC end of course exam, requirements as listed in the applicable MAJCOM training directives, and the appropriate core AFSC UGT items listed in the Specialty Training Standard (STS).

18.6. **Other.** See paragraph 17.1.4.

18.7. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

18.8. **Implementation.** Entry into upgrade training is initiated when an individual possesses the 3-skill level and NLT 60-days from arrival to their initial duty assignment. An AP technician begins UGT to attain their 5-skill level via OJT and completion of the appropriate JQS, CDC and QTP. Upon completion of the required courses listed in paragraph 5.2, and satisfactory qualification in the items listed in the STS/JQS, individuals are certified with their 5-skill level upgrade. Thereafter, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

19. CRAFTSMAN 7-LEVEL TRAINING:

19.1. **Specialty Qualification.** All qualifications for AFSC 1H051 apply to the 1H071 requirements.

19.2. **Knowledge.** Knowledge in the following subject matter is mandatory: mitigation of work hazards and high risk operations, Mission Essential Task List (METL) fundamentals, career opportunities, physiology unit management, expanded knowledge on physiology instruction fundamentals, APTT human performance optimization strategies, altitude chamber and subsystems inspections and maintenance. In addition to knowledge required for the 5-skill level and other qualifications as listed above an individual must possess the knowledge and skills necessary to lead and supervise personnel.

19.3. **Education.** Appropriate PME. Moreover, an AP Technician will continue to expand their knowledge through continuing education in pursuit of their Bachelor's degree. Moreover, an AP Technician will continue to expand their knowledge through continuing education.

19.4. **Training.** The following training is mandatory for the award of the 7-skill level: completion of the 1H071 OJT and qualification training, completion of the in-resident APC course with the newly embedded Human Factors Workshop for AP Professionals, the MINA course, and AMIC.

19.5. **Experience.** Must be a currently qualified 1H051. In addition, the individual must complete requirements as listed in the applicable MAJCOM training directives, and the appropriate core AFSC UGT items listed in the Specialty Training Standard (STS). Also, experience performing functions such as: observing, evaluating and assisting with the unique physiological demands of the Major Weapons System (MWS), human factors/human performance challenges within the MWS, aircrew breathing systems, and aircrew MWS interface; provide

operational safety, suitability and effectiveness (OSS&E) lessons learned to existing aircrew training platforms and human systems integration.

19.6. **Other.** See paragraph 17.1.4.

19.7. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

19.8. **Implementation.** Entry into upgrade training is initiated when an individual receives a line number to the rank of Staff Sergeant. The trainee must possess the 5-skill level and begin UGT to attain their 7-skill level via OJT and completion of the appropriate JQS. Upon completion of the required courses listed in paragraph 19.4., and satisfactory qualification in the items listed in the STS/JQS, trainees are certified with their 7-skill level upgrade. Thereafter, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

20. SUPERINTENDENT 9-LEVEL TRAINING:

20.1. **Specialty Qualification.**

20.2. **Knowledge.** Knowledge in the following subject matter is mandatory: Flight Chief experience, emotional intelligence principles, resource management, force distribution and stratification process, organizational management, human resource development, critical thinking and decision-making, MAJCOM Functional Manager roles and responsibilities, enlisted assignment system, assignment management tools. In addition to knowledge required for the 5-skill level and other qualifications as listed above an individual must possess the knowledge and skills necessary to lead, supervise, and mentor personnel.

20.3. **Education.** Appropriate PME. Additionally, an AP Technician should have completed their Bachelor's degree and have begun working on attaining their Master's degree. Moreover, Superintendent responsibilities include expanding their knowledge in leadership, operational, managerial concepts and advanced communication skills.

20.4. **Training.** The following training is mandatory for the award of the 9-skill level: completion of the AP MFM course, AP Flight Chief Course, and any pertinent professional certifications applicable to the profession. An individual must hold the rank of Senior Master Sergeant (SMSgt) and have supervisor's recommendation for award of the 9-skill level.

20.5. **Experience.** Qualification in and possession of AFSC 1H071. In addition, the individual must complete requirements as listed in the applicable MAJCOM training directives, and the appropriate core AFSC UGT items listed in the Specialty Training Standard (STS).

20.6. **Other.** See paragraph 17.1.4.

20.7. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

20.8. **Implementation.** Entry into upgrade training is initiated when an individual receives a line number to the rank of Senior Master Sergeant. The trainee must possess the 7-skill level and begin UGT to attain their 9-skill level via completion of the appropriate JQS. Upon completion of the required courses listed in paragraph 19.4., and satisfactory qualification in the items listed in the STS/JQS, trainees are certified with their 9-skill level upgrade. Thereafter, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

21. CHIEF ENLISTED MANAGER (CEM) AND CAREER FIELD MANAGER (CFM) 0-LEVEL TRAINING:

21.1. **Specialty Qualification.**

21.2. **Knowledge.** Knowledge in the following subject matter is mandatory: 3-skill level, 5-skill level, 7-skill level 9-skill level duties and responsibilities. In addition to knowledge listed above an individual must possess the knowledge and skills necessary to lead, manage, supervise, mentor and coach personnel at the highest level of strategic leadership.

21.3. **Education.** Appropriate PME. Additionally, an AP Technician should have completed their Graduate degree. Moreover, Chiefs responsibilities include expanding their knowledge in leadership, operational, and managerial concepts and advanced communication skills.

21.4. **Training.** Executive seminars. An individual must hold the rank of Chief Master Sergeant (CMSgt) and have supervisor's recommendation for award of the 0-skill level.

21.5. **Experience.** Qualification in and possession of AFSC 1H091.

21.6. **Other.** See paragraph 17.1.4.

21.7. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

21.8. **Implementation.** Entry into upgrade training is initiated when an individual receives a line number to the rank of Chief Master Sergeant. The trainee must possess the 9-skill level and begin UGT to attain their 0-skill level. Thereafter, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

22. **Requalification.** In addition to the requirements outlined in DAFI 36-2670, *Total Force Development* paragraph 4.6.9.6.2., a requalification is required for 1H0X1 personnel returning from DSD or when serving outside the primary AFSC for more than 365 days. The initial evaluation and skills verification is required within 90 days of reintegration into a 1H0X1 UMD authorization. Members will demonstrate, and supervisors will document, competency in critical skills relevant to the assigned unit. Re-accomplishment of all 5- or 7-level tasks is not required, only those items that fail to meet knowledge based/task evaluation standards. Requalification for academic instruction will be conducted in accordance with AFPAM 11-406, *Aerospace Physiology Program Guidance*, paragraph 1.5.2.. The supervisor's assessment of an individual's knowledge level, and proficiency training are essential in order to fully and successfully reintegrate Airmen into the role of an Aerospace Physiology Technician after extended time away from tasks and work practices.

> Example: SSgt Smith returns to AP from DSD, she is competent on Hypobaric Chamber operations, but does not remember ROBD STS line items. SSgt Smith will be decertified on ROBD and begin retraining. SSgt Smith will be evaluated on one or more classroom instruction courses at the direction of the APTF Commander/APTT Chiefs/Flight Superintendents/Flight Chiefs prior to teaching to actual Aircrew or parachutists without supervision.

22.1. **1H091 Requalification.** Individuals returning to the career field in the rank of SMSgt or above do not have to meet requalification requirements. However, they must meet minimum requirements to perform hazardous and flight duties as prescribed by the CFETP, AFMAN 11-403, *Aerospace Physiological Program*; AFPAM 11-406, *Aerospace Physiology Program Guidance* and if assigned to conduct HAAMS, AFMAN 11-409, *High Altitude Airdrop Mission Support (HAAMS) Capability* program.

SECTION D - RESOURCE CONSTRAINTS

23. PURPOSE. This section identifies known resource constraints that 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 reviewed and updated at least annually.

23.1. **Apprentice Level Training.**
None identified.

23.2. **Journeyman Level Training.**
None identified.

23.3. **Craftsman Level Training.**
The Air Force's stance on mishap prevention is to mitigate hazards through education and awareness with the end goal of minimizing human error. A goal of the Aerospace Physiological program is to educate aircrew on the physiological events that may occur while in a dynamic flight environment. In addition to participating as Human Factors experts as primary and conditional Safety Investigation Board (SIB) members, the AP program holistically represents one facet of the Air Force's effort to enhance readiness, human operational performance, provide critical aircrew training, and support mishap prevention efforts. Thus, the 2022 STRT determined the training listed below is a prerequisite for 7-level upgrade:

Course	*Course ID*
Mishap Investigation Non-Aviation (MINA) course	WCIP059
Aircraft Mishap Investigation Course (AMIC)	WCIP05SA

The AFCFM, 1H0X1 submitted a quota request for FY23 and FY24 and is awaiting the results of the Air Force Education Requirements Board (AFERB) process via AFPC and AFSEC. The requested quota is for 25 AFERB funded slots (allocated to 1H0X1 personnel) on an annual basis.

23.4. **Superintendent Level Training.**
None identified.

23.5. **CEM and CFM Level Training.**
None identified.

SECTION E - TRANSITIONAL TRAINING GUIDE

There are currently no transition requirements. This area is reserved.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

ALBERT G. MILLER, Maj Gen, USAF
Director AF Training and Readiness (AF/A3T)

Supersedes: CFETP 4M0X1 Dated: 2 June 2016
Office of Primary Responsibility: HQ USAF/A3TH; AFCFM, 1H0X1
Approved By: CMSgt Ismael Páez Jr.

PART II

SECTION A – SPECIALTY TRAINING STANDARD

1. **Implementation.** STS line items depicting Aircrew Fundamentals Course requirements will be in effect on 1 October 2022. These STS attachments will be used for technical training provided by Air Education and Training Command impacting the 3-level Apprentice Course and 7-level Craftsman Course beginning 31 May 2023. OJT is to be implemented upon 60-days from the date of the CFETP publishing.

2. **Purpose.** As prescribed in DAFI 36-2670, *Total Force Development* this STS includes:

2.1. ***Column 1 (Task, Knowledge, and Technical Reference)*** lists the most common tasks, knowledge, and technical references (TR) necessary for Airmen to perform duties in the 3-, 5-, and 7-skill level.

2.2. ***Column 2B (Core Tasks/Certifications)*** are identified, by the respective skill level. Column 2 identifies the minimum core task training requirements for award of AFSCs 1H031, 1H051 and 1H071 respectively. The AFCFM, 1H0X1s, has waiver authority for core tasks identified in this plan. The approved waiver will be maintained in the individual's training record.

2.3. ***Column 2C (Deployments, SEI and CBRN)*.** Deployment requirements in this column are identified by an *, SEI requirements are identified by a +, and CBRN requirements are identified by a ~.

2.4. ***Column 3 (Certification for OJT)*** records completion of tasks and knowledge training requirements. **MANDATORY:** Use automated training management systems (i.e. myTraining) to document technician qualifications to a go/no-go level, "3c."

2.5. ***Column 4 (Proficiency Codes Used to Indicate Training/Information Provided via ICW and/or Course)*** 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. Columns 4A and 4C show the level to which task, knowledge and performance training will be accomplished by the AP CoE for 1H031 and 1H071 courses respectively, as described in the Education & Training Course Announcement (ETCA). Column 4B indicates the career knowledge provided in CDC 1H051. See CDC listing maintained by the unit training manager for current CDCs. Column 4D identifies just-in-time training for personnel performing Flight Chief (FC) and MAJCOM Functional Manager (MFM) duties respectively. While the FC and MFM courses fall under the 9-level column, the courses should be taken when the individual has been assigned to perform the respective duties in question. Successful completion of the FC and MFM courses must be completed in order to qualify for 9-level upgrade upon attaining the rank of SMSgt.

2.6. ***Column 5 (Proficiency Codes Used to Indicate OJT Information)*** outlines the proficiency level to which AP personnel must be certified by their workcenter in order to qualify for an upgrade.

3. **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.

4. **Job Qualification Standard.** This STS becomes a job qualification standard (JQS) for on-the-job training when placed in AF Form 623, *On-the-Job Training-Continuation Sheet*, and used according to DAFI 36-2670. For OJT, the tasks in column 1 are trained and qualified to the go/no-go requirements for accuracy, timeless, and correctness. When used as a JQS, the following requirements apply:

4.1. **Documentation**. Document completion of training in accordance with DAFI 36-2670, myTraining will be used to document training. Identify duty position requirements in the automated training system. As a minimum, complete the equivalent of the following columns in Part II of the CFETP: Training Completed, Trainee Initials, Trainer Initials and Certifier Initials. An AFJQS may be used in lieu of Part II of the CFETP only upon approval of the AFCFM. **NOTE:** *The AFCFM, 1H0X1 may supplement these minimum documentation procedures as needed or as deemed necessary for their Career Field.*

4.1.1. **Transcribing from Existing to New CFETP.** All AFJQSs and previous CFETPs are replaced by this CFETP; therefore, transcribing of all training records to this CFETP STS is mandatory. Use this CFETP STS (or

automated STS) to identify all past and current qualifications. Document all previous and current training IAW DAFI 36-2670.

5. **Training References**. Serve as a guide for development of CDCs and promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests are developed at the AETC Airman Advancement Division, by Senior Noncommissioned Officers with extensive practical experience in their career field. Specialty Knowledge Tests are developed by subject matter experts who authenticate Weighted Airman Promotion System material and reference AF Specialty-specific occupational analysis data. Questions are based upon study references listed in the Enlisted Promotions References and Requirements Catalog. Individual responsibilities are in Chapter 4, paragraph 4.2.11 of AFMAN 36-2664, Personnel Assessment Program.

6. **Recommendations.** Report unsatisfactory performance of individual course graduates to the AP CoE, 2510 5th Street, bldg. 850, Wright-Patterson AFB, OH 45433-7931. When communicating specific issues, reference Attachment 1 and specific Specialty Training Standard paragraphs (line item/s), training standard element, etc.

Attachment 1.

THIS BLOCK IS FOR IDENTICATION PURPOSES ONLY		
TRAINEE'S NAME (LAST, FIRST, MI)	INITIALS (WRITTEN)	SSAN (LAST 4)
PRINTED NAME OF CERTIFYING AND TRAINING OFFICIAL WITH WRITTEN INITIALS		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	

QUALITATIVE REQUIREMENTS

PROFICENCY CODE KEY		
	SCALE VALUE	DEFINITION: The Individual
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown to do most of the task. (EXTREMELY LIMITED)
	2	Can do most of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
***TASK KNOWLEDGE LEVELS**	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
****SUBJECT KNOWLEDGE LEVELS**	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)

- EXPLANATIONS-

* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (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 CDC.

X - This mark is used alone in course columns to show that training is required but not given due to limitations in resources.

1 – This mark identifies QTP UGT requirements, these task requirements must be certified.

3 - This mark identifies core task for the 3-skill level, these task requirements must be certified.

5 - This mark identifies core task for the 5-skill level, these task requirements must be certified.

7 - This mark identifies core task for the 7-skill level, these task requirements must be certified.

R - This mark identifies a War Skills task.

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
	CORE / CERT ^	DEPLOYMENT * / SEI + / CBRN ~ / QTP 1	A	B	C	D	E	A	B	C	D	A	B
			TNG START	TNG COMPL	TRAINEE INITIALS	TRAINER INITIALS	CERTIFIER INITIALS	3-lvl	5-lvl	7-lvl	9-lvl	5-lvl	7-lvl
1. CAREER LADDER PROGRESSION	**TR: DAFMAN 11-401, Aviation Management; AFMAN 11-402, Aviation and Parachutist Service; AFMAN 11-403, Aerospace Physiological Training Program; AFMAN 36-2100, Military Utilization and Classification; Air Force Enlisted Classification Directory (AFECD); AFPAM 11-406, Aerospace Physiology Program Guidance**												
1.1. 1H0X1 Development													
1.1.1. Purpose and use of the 1H0X1 Career Field Education Training Plan (CFETP)	**3, 5, 7**							**A**	**-**	**B**	**-**	**B**	**-**
1.1.2. 1H0X1 career ladder and educational opportunities	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.2. Enlisted Military Personnel Classification													
1.2.1. Enlisted AFSC Explained (CAFSC, DAFSC, PAFSC)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.2.2. Special Duty Identifiers (SDIs)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.2.3. Reporting Identifiers (RIs)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.3. Special Experience Identifiers (SEIs)													
1.3.1. High Altitude Airdrop Mission Support (HAAMS) Team Member (SEI 461)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.3.2. High Altitude Intelligence Surveillance and Reconnaissance Support (HAISR) (SEI 493)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.3.3. U-2 (SEI 510)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.4. Identify duties of AFSC 1H0X1	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
1.5. Identify mission, organization development, and function of the Line of the Air Force (LAF) and Aerospace Physiology	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2. OCCUPATIONAL SAFETY AND HEALTH PROGRAM	**TR: DAFMAN 91-203, Air Force Occupational Safety, Fire, and Health Standards; AFVA 91-209, Air Force Occupational Safety and Health Program; AFI 48-127, Occupational Noise and Hearing Conservation Program; T.O. 32-1-101, Use and Care of Hand Tools and Measuring Tools; National Fire Protection Association (NFPA) 99, Chapter 20; AFPAM 11-406, Aerospace Physiology Program Guidance; T.O. 43D8-3-2-81, Hypobaric Training Assembly Models 20M331, 20M491, 20M6321, and 10006; T.O. 42B5-1-2, Gas Cylinders (Storage Type) Use, Handling, and Maintenance**												
2.1. Identify hazards of the 1H0X1 career field	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2.2. Identify safety standards for the 1H0X1 career field	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2.3. Identify established procedures for work hazards and high risk operations	**3, 5, 7**							**a**	**b**	**c**	**-**	**-**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
2.4. USAF Hearing Conservation Program (HCP) and its roles and responsibilities													
2.4.1. Hazardous Noise threats	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2.4.2. Hearing Personal Protective Equipment (PPE) types/devices	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2.4.3. Limits of hearing protection performance	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2.5. PPE													
2.5.1. Use Eye protection and identify its appropriate use	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
2.5.2. Use Gloves and identify its appropriate use	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
2.5.3. Use Hearing protection and identify its appropriate use	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
2.6. Hazardous Material (HAZMAT)													
2.6.1. Characteristics of Safety Data Sheets (SDS)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
2.6.2. Use SDS	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
3. LEADERSHIP AND SUPERVISION	**TR: DAFI 91-204, Safety Investigations and Reports; DAFMAN 91-203, Air Force Occupational Safety, Fire, and Health Standards; AFI 48-127, Occupational Noise and Hearing Conservation Program; TO 32-1-101, Use and Care of Hand Tools and Measuring Tools; National Fire Protection Association (NFPA) 99, Chapter 20; DAFI 36-2670, Total Force Development; AFDD 1-1, Leadership and Force Development; AFDD, Volume 2, Leadership; AFH 36-2643, Air Force Mentoring Program; AU-2, Guidelines for Command; AU-24, Concepts for Air Force Leadership; AFPD 32-70, Environmental Considerations in Air Force Programs and Activities; AFPD 38-1, Manpower and Organization; AFPD 36-21, Utilization & Classification of Air Force Military Personnel; DoDI 5000.64_DAFI 23-111, Accountability and Managment of DoD Equipment and other Accountable Property; DoD FMR 7000.14.R, Volume 12, Chapter 7, DoD Financial Liability for Government Property Lost, Damaged, Destroyed, or Stolen; AFH 1, The Airman Handbook; EO 13423, Strengthening Federal Environmental, Energy, and Transportation Management; FM 6-22, Leader Development; Full Range Leadership Development: Pathways for People, Profit, and Planet, John J. Sosik, and Donil Jung, Taylor and Francis Group, New York, 2010; Leadership and the Art of Mentoring: Tool Kit for the Time Machine, John C. Kunich and Richard I Lester, 1999; Management of Organizational Behavior: Leading Human Resources, 8th Edition, Paul Hersey, Kenneth H. Blanchard, and Dewey E. Johnson, NJ: Prentice Hall, 2001; Strategic Leadership Primer, Department of Command, Leadership and Management, United States Army War College, 2010**												
3.1. Mission Essential Task List (METL) fundamentals	**7**							**-**	**-**	**B**	**-**	**-**	**-**
3.2. Orient newly assigned personnel	**7**							**-**	**-**	**-**	**-**	**-**	**c**
3.3. Establish:													
3.3.1. Subordinate expectations (e.g. schedule, role/duties, chain of command)	**7**							**-**	**-**	**-**	**-**	**-**	**3c**
3.3.2. Performance Standards	**7**							**-**	**-**	**-**	**-**	**-**	**3c**
3.4. Evaluate work performance of subordinate personnel	**7**							**-**	**-**	**-**	**-**	**-**	**3c**
3.5. Career Opportunities:													
3.5.1. Identify Career opportunities (e.g. enlisted force structure, Developmental Special Duty (DSD), Key Developmental Positions (KDP) and Key Leadership Positions (KLP))	**7**							**-**	**-**	**B**	**-**	**-**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
3.5.2. Communicate career opportunities (e.g. enlisted force structure, Developmental Special Duty (DSD), Key Developmental Positions (KDP) and Key Leadership Positions (KLP))	**7**							-	-	-	-	-	**3c**
3.6. Evaluate and nominate personnel for training courses	**7**							-	-	-	-	-	**3c**
3.7. Communicate recognition opportunities (e.g. 1H0X1 Awards, AF level decorations)	**7**							-	-	-	-	-	**3c**
3.8. Initiate personnel action (AF Form 2096, Classification/On-the-Job Training Action)	**5, 7**							-	-	-	-	**2b**	**3c**
4. PHYSIOLOGY UNIT MANAGEMENT	**TR: AFI 38-101, Manpower and Organization; AFI 65-601V1, Budget Guidance and Procedures; AFI 65-601V2, Budget Management for Operations; T.O. 00-35D-54, USAF Deficiency Reporting, Investigation, and Resolution (DRI&R)**												
4.1. Unit Manpower Document (UMD)	**7**							-	-	**B**	-	-	-
4.2. Unit Personnel Management Roster (UPMR)	**7**							-	-	**B**	-	-	-
4.3. Identify the formal training allocation process	**7**							-	-	**c**	-	-	-
4.4. Identify AP device maintenance request procedures	**5, 7**							-	-	-	-	**b**	**c**
4.5. Identify purpose and importance of the USAF Deficiency Reporting program	**5, 7**							-	**B**	**C**	-	-	-
4.6. Identify how to manage Planning, Programming, Budgeting & Execution (PPBE)	**7**							-	-	**B**	-	-	-
4.7. Identify Inspection Programs specific to Aerospace Physiology (AP) Operations	**7**							-	-	**B**	-	-	-
4.8. Identify characteristics of Decompression Sickness Response Plan	**5, 7**							-	-	-	-	**B**	**C**
5. AIR FORCE TRAINING PROGRAM	**TR: DAFI 36-2670, Total Force Development; AFH 1, The Airman Handbook; DAFI 36-2406, Officer and Enlisted Evaluations Systems**												
5.1. Training records													
5.1.1. Training records	**3, 5**							**A**	**B**	-	-	-	-
5.1.2. Maintain training records	**5, 7**							-	-	-	-	**2b**	**3c**
5.1.3. AF Form 624, Individual Training Record Folder	**5**							-	**A**	-	-	**B**	-
5.1.4. AF Form 797, Job Qualification Standard Continuation Sheet	**5**							-	**A**	-	-	**B**	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
5.1.5. AF Form 1098, Special Task Certification and Recurring Training	**5**							**-**	**A**	**-**	**-**	**B**	**-**
5.2. Explain task expectations to trainee	**7**							**-**	**-**	**-**	**-**	**-**	**3c**
5.3. Determine training needs													
5.3.1. Master Training Plan (MTP)	**5, 7**							**-**	**-**	**B**	**-**	**A**	**-**
5.3.2. Determine training milestones using MTP	**7**							**-**	**-**	**-**	**-**	**-**	**2b**
5.3.3. Counsel trainees and document progress	**5, 7**							**-**	**-**	**-**	**-**	**2b**	**3c**
5.3.4. Evaluate effectiveness of training	**5, 7**							**-**	**-**	**-**	**-**	**2b**	**3c**
6. AEROSPACE PHYSIOLOGY INSTRUCTIONAL TECHNIQUES	**TR: AFMAN 11-403, Aerospace Physiological Program; APA Education Plan**												
6.1. Fundamentals of Instruction													
6.1.1. Instructional Systems Development (ISD)	**3, 5**							**A**	**A**	**-**	**-**	**-**	**-**
6.1.2. Instructor Roles	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
6.1.3 Group Dynamics	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
6.1.4. Learning Theory	**3, 5**							**A**	**A**	**-**	**-**	**-**	**-**
6.1.5. Student Measurement (e.g. knowledge check, progress check, practical, exam)	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
6.1.6. Perform student measurement (e.g. knowledge check, progress check, practical, exam)	**5**							**-**	**-**	**-**	**-**	**2b**	**-**
6.1.7. Communicative Process/Skills	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
6.1.8. Course Control Documents	**3, 5**							**A**	**A**	**-**	**-**	**-**	**-**
6.1.9. Feedback	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
6.1.10. Access AETC Bookstore	**3, 5**							**a**	**-**	**-**	**-**	**2b**	**-**
6.1.11. Submit Course Change Requests (CCR)	**3, 5**							**a**	**-**	**-**	**-**	**b**	**-**
6.2. Presentations													
6.2.1. Instructional Methods	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
6.2.2. Prepare Lesson Plans	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
6.2.3. Develop Objectives	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
6.2.4. Use Multimedia	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
6.3. Deliver Presentations													
6.3.1. Prepared briefing (10 minute)	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
6.3.2. Military topic (15 minute)	**3**							**2b**	**-**	**-**	**-**	**-**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
6.3.3. Leadership topic guided discussion (15-20 minutes)	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
6.3.4. AP topic (30 minute)	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
6.3.5. Demonstration-Performance on AP topic (45 minute)	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
6.3.6. Topic of choice (45 minute)	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
7. AIRCREW TRAINER FUNDAMENTALS	**TR: AFMAN 11-403, Aerospace Physiological Training Program; AETC Syllabus S-O-B/A-APH; AFMAN 11-202V3, Flight Operations; Ernsting's Aviation Medicine, Rainford/Gradwell (ed), 5th Edition, 2006; Fatigue in Aviation, Caldwell/Caldwell, 2003; Fundamentals of Aerospace Medicine, Davis/Johnson/Stepanek/Fogarty (ed), 5th Edition, 2008; Handbook of Aerospace and Operational Physiology, Woodrow/Webb, 2016; AFPAM 11-417, Orientation in Aviation; AFPAM 11-406, Aerospace Physiology Program Guidance**											
7.1. Identify Medical terminology and recognize its role in Aerospace Physiology	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
7.2. Anatomy and Physiology of body systems:													
7.2.1. Structures and functions of the skeletal system	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
7.2.2. Structures and functions of the muscular system	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
7.2.3. Structures and functions of the nervous system	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
7.2.4. Structures and functions of the respiratory system	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.2.5. Structures and functions of the circulatory system	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.2.6. Prepare and deliver a capstone lecture on Respiration and Circulation (includes items 7.2.4., and 7.2.5.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.3. Introduction to Human Factors in Aviation:													
7.3.1. Definition of Human Factors	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.3.2. Human Factors challenges in USAF aviation and human performance implications	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.3.3. Categories of human error	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.3.4. DoD Human Factors Analysis and Classification System (HFACS) and its role in USAF aviation safety	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.3.5. Prepare and deliver capstone lecture on Introduction to Human Factors in Aviation (includes items listed in 7.3.1., 7.3.2., 7.3.3., and 7.3.4.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
7.4. Introduction to Atmosphere:													
7.4.1. Characteristics of the Atmosphere	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.4.2. Gas Laws (Dalton's Law, Boyles's Law, Henry's Law, Ideal Gas Law, Law of Gaseous Diffusion)	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.4.3. Prepare and deliver capstone lecture on Introduction to Atmosphere (includes items listed in 7.4.1. and 7.4.2.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.5. Physiological Effects of Altitude:													
7.5.1. Hypoxia (Hypemic, Hypoxic, Histotoxic, Stagnant)	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.5.2. Characteristics of pressure breathing	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.5.3. Characteristics of Hypocapnia	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.5.4. Characteristics of Hyperventilation	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.5.5. Causes, symptoms, prevention and treatment for mechanical effects of trapped gasses	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.5.6. Types of Decompression Sickness (Musculoskeletal, Skin, Respiratory and Neurological manifestations)	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.5.7. Prepare and deliver a capstone lecture on Physiological Effects of Altitude (includes items listed in 7.5.1., 7.5.2., 7.5.3., 7.5.4., 7.5.5., and 7.5.6.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.6. Attention Management Threats to Situational Awareness (SA):													
7.6.1. SA	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.6.2. Predominant causes of loss of SA	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.6.3. Primary types of information processing	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.6.4. SA prevention, recognition, and recovery	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.6.5. Prepare and deliver capstone lecture on Attention Management Threat to SA (includes items listed in 7.6.1., 7.6.2., 7.6.3., and 7.6.4.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.7. Vision:													
7.7.1. Anatomy and Function of the eye	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.7.2. Characteristics of the Visual Field	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**

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7.7.3. Physiological and perceptual limitations	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.7.4. Physiology of Night Vision	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.7.5. Laser threats	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.7.6. Prepare and deliver a capstone lecture on Vision (includes items listed in 7.7.1., 7.7.2., 7.7.3., 7.7.4., and 7.7.5.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.8. Unaided Night Vision Lab:													
7.8.1. Dark Adaptation functions and its effect on Photopic, Mesopic and Scotopic Vision	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.8.2. Role of Rhodopsin, light bleaching effects, Vitamin A, and increases in darkness have on dark adaptation	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.8.3. Anatomical and Physiological Blind spots	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.8.4. Characteristics of Visual Illusions and how to counteract their deception	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.8.5. Autokinesis, Purkinje Shift, Flash blindness and strobe light demonstrations	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.8.6. Prepare and deliver a capstone lecture on Unaided Night Vision utilizing IBT and Unaided Night Vision Trainer (includes items 7.8.1., 7.8.1.1., 7.8.2., 7.8.3., 7.8.4. and 7.8.5.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.9. Physiological Considerations of Aircrew Breathing Systems:													
7.9.1. Types of oxygen storage systems	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.9.2. Types of oxygen delivery systems	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.9.3. Emergency oxygen systems	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.9.4. Personal equipment (e.g. CRU-60/P, P/RICE check, regulator, helmet, mask)	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.9.5. Prepare and deliver an Oxygen Equipment Lab in the Altitude Chamber	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**
7.9.6. Prepare and deliver a capstone lecture on Physiological Considerations of Aircrew Breathing Systems (includes items listed in 7.9.1., 7.9.2., 7.9.3., 7.9.4., and 7.9.5.)	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**

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7.10. Cabin Pressurization and Decompression:													
7.10.1. Cabin Pressurization and its advantages/disadvantages	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.10.2. Pressurization schedules	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.10.3. Principles, physical and physiological effects	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.10.4. Precautionary and corrective procedures	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.10.5. Types, indicators and factors influencing decompressions	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.10.6. Prepare and deliver a capstone lecture on Cabin Pressurization and Decompression (includes items in 7.10.1., 7.10.2., 7.10.3., 7.10.4., and 7.10.5.)	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**
7.11. Performance Threats:													
7.11.1. Self-medication & supplements	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.2. Alcohol	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.3. Tobacco	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.4. Nutrition	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.5. Fatigue	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.6. Sleep Hygiene	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.7. Thermal stress	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.8. Stress management	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.11.9. Prepare and deliver a capstone lecture on Performance Threats (includes items in 7.11.1., 7.11.2., 7.11.3., 7.11.4., 7.11.5., 7.11.6., 7.11.7., and 7.11.8.)	**5, 7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.12. Spatial Disorientation (SD):													
7.12.1. Human orientation systems	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.12.2. Factors	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.12.3. Prevention	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.12.4. Motion sickness	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.12.5. Illusions (e.g. Graveyard Spin/Spiral, Nystagmus, Leans, and Coriolis)	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.12.6. Complete 20-hours in the SDT (as applicable)		**1**										**2b**	

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7.12.7. Prepare and deliver a capstone lecture on Spatial Disorientation (includes items 7.12.1., 7.12.2., 7.12.3., 7.12.4., and 7.12.5)	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**
7.12.8. Utilize Barany Chair replicating Nystagmus, Leans, and Coriolis	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**
7.13. Noise and Vibration:													
7.13.1. Characteristics of noise	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.13.2. Effects of hazardous noise	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.13.3. Protective measures	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.13.4. Effects of aircraft vibration	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.13.5. Prepare and deliver a capstone lecture on Noise and Vibration (includes items 7.13.1., 7.13.2., 7.13.3., and 7.13.4.)	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**
7.14. Acceleration:													
7.14.1. Characteristics of G-Forces	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.14.2. Characteristics of G induced loss of consciousness (G-LOC)	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.14.3. How to prevent G-LOC	**3, 5, 7**							**B**	**B**	**C**	**-**	**-**	**-**
7.14.4. Perform Anti-G Straining Maneuver (AGSM)	**5**							**-**	**-**	**-**	**-**	**2b**	**-**
7.14.5. Prepare and deliver a capstone lecture on Acceleration (includes items 7.14.1., 7.14.2., 7.14.3., and 7.14.4.)	**5,7**	**1**						**-**	**-**	**-**	**-**	**3b**	**3c**
7.15. Physiological Considerations of Aircraft Egress:													
7.15.1. Courses of action to minimize injury during aircraft egress	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.15.2. Aided escape	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.15.3. Unaided escape	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.15.4. Common unaided escape injuries	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.15.5. Physiological threats of high altitude egress	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.15.6. Survivability	**3, 5**							**B**	**B**	**-**	**-**	**-**	**-**
7.15.7. Prepare and deliver a capstone lecture on Physiological Considerations of Aircraft Egress (includes items 7.15.1., 7.15.2., 7.15.3., 7.15.4., 7.15.5., and 7.15.6.)	**5**	**1**						**-**	**-**	**-**	**-**	**3c**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
8. ENLISTED AVIATOR INFORMATION (AIRCREW FUNDAMENTALS COURSE (AFC))	**AFMAN 11-202V2, Aircrew Standardization and Evaluation Program; T.O. 00-20-1, Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures; T.O. 14-1-1, U.S. Air Force Aircrew Flight Equipment Clothing and Equipment**												
8.1. Organizational Structure and Roles Within 1AXXX/1UXXX AFS													
8.1.1. Squadron Structure and Roles	**3, 5**							**A**	**B**	-	-	-	-
8.1.2. Group Structure and Roles	**3, 5**							**A**	**B**	-	-	-	-
8.1.3. Wing, NAF, MAJCOM, DAF Structure and Roles	**3, 5**							**A**	**B**	-	-	-	-
8.1.4. Total Force Integration	**3, 5**							**A**	**B**	-	-	-	-
8.1.5. Formal Training Unit Structure and Roles	**3, 5**							**A**	**B**	-	-	-	-
8.1.6. Joint and Combined Service	**3, 5**							**A**	**B**	-	-	-	-
8.2. Progression and Duties within 1AXXX/1UXXX AFS													
8.2.1. Initial Qualification	**3, 5**							**A**	**B**	-	-	-	-
8.2.1.1. Career Enlisted Aviator Center of Excellence	**3, 5**							**A**	**B**	-	-	-	-
8.2.1.2. Initial Qualification	**3, 5**							**A**	**B**	-	-	-	-
8.2.1.3. Survival Evasion Resistance Escape	**3, 5**							**A**	**B**	-	-	-	-
8.2.1.4. Self Initiated Elimination	**3, 5**							**A**	**B**	-	-	-	-
8.2.2. Mission Qualification	**3, 5**							**A**	**B**	-	-	-	-
8.2.3. Instructor Qualification and History	**3, 5**							**A**	**B**	-	-	-	-
8.2.4. Evaluator Qualification and History	**3, 5**							**A**	**B**	-	-	-	-
8.2.5. T-Code Requirements	**3, 5**							**A**	**B**	-	-	-	-
8.2.6. Enlisted Aircrew Wings													
8.2.6.1. Enlisted Aircrew Wings History and Requirements	**3, 5**							**A**	**B**	-	-	-	-
8.2.6.2. Aeronautical Ratings	**3, 5**							**A**	**B**	-	-	-	-
8.2.6.3. Fiscal Incentives for Aviation Service	**3, 5**							**A**	**B**	-	-	-	-
8.3. Aircrew History													
8.4. Flight Duty Uniforms													
8.4.1. Flight Suit (FDU)	**3, 5**							**A**	**B**	-	-	-	-
8.4.2. Two Piece Flight Suit (2PFDU)	**3, 5**							**A**	**B**	-	-	-	-
8.4.3. Flight Boots, Jacket, Gloves, and Helmet	**3, 5**							**A**	**B**	-	-	-	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
8.4.4. Misc/Unique Flight Equipment	**3, 5**							**A**	**B**	-	-	-	-
8.5. Career Enlisted Aviator Mission Sets													
8.5.1. Mobility Air Forces (MAF)													
8.5.1.1. MAF Mission Sets	**3, 5**							**A**	**B**	-	-	-	-
8.5.1.2. MAF Airframes	**3, 5**							**A**	**B**	-	-	-	-
8.5.1.3. MAF Enlisted Aviators	**3, 5**							**A**	**B**	-	-	-	-
8.5.2. Combat Air Forces (CAF)													
8.5.2.1. CAF Mission Sets	**3, 5**							**A**	**B**	-	-	-	-
8.5.2.2. CAF Airframes	**3, 5**							**A**	**B**	-	-	-	-
8.5.2.3. CAF Enlisted Aviators	**3, 5**							**A**	**B**	-	-	-	-
8.5.3. Special Operation Forces (SOF)													
8.5.3.1. SOF Mission Sets	**3, 5**							**A**	**B**	-	-	-	-
8.5.3.2. SOF Airframes	**3, 5**							**A**	**B**	-	-	-	-
8.5.3.3. SOF Enlisted Aviators	**3, 5**							**A**	**B**	-	-	-	-
8.6. Aircrew Culture													
8.6.1. Mentorship	**3, 5**							**A**	**B**	-	-	-	-
8.6.2. Aircrew Heritage	**3, 5**							**A**	**B**	-	-	-	-
8.6.3. Airmanship	**3, 5**							**A**	**B**	-	-	-	-
8.6.4. Operational Risk Management	**3, 5**							**A**	**B**	-	-	-	-
8.7. Aviation Support Functions													
8.7.1. Aviation Resource Management	**3, 5**							**A**	**B**	-	-	-	-
8.7.1.1. Squadron Aviation Resource Management (SARM)	**3, 5**							**A**	**B**	-	-	-	-
8.7.1.2. Host Aviation Resource Management (HARM)	**3, 5**							**A**	**B**	-	-	-	-
8.7.2. Currency Requirements													
8.7.2.1. Currency Events	**3, 5**							**A**	**B**	-	-	-	-
8.7.2.2. Testing													
8.7.2.2.1. Open Book Testing	**3, 5**							**A**	**B**	-	-	-	-
8.7.2.2.2. Closed Book Testing	**3, 5**							**A**	**B**	-	-	-	-
8.7.2.2.3. Boldface/Limitations	**3, 5**							**A**	**B**	-	-	-	-
8.7.3. Flight Medicine	**3, 5**							**A**	**B**	-	-	-	-
9. CREW RESOURCE MANAGEMENT (AFC)	**AFMAN 11-202V3, Flight Operations; ACP 121, Allied Communications Publication-Communications Instructions-General**												
9.1. Crew Resource Management (CRM)													
9.1.1. Personal CRM Responsibilities	**3, 5**							**A**	**B**	-	-	-	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
9.1.2. Engagement with other crewmembers	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.2. Communication													
9.2.1. Etiquette	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.2.2. Terms and definitions	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.2.3. Internal Communication	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.2.4. External Communication	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.2.5. Radio Protocol/Discipline	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.3. Checklist Procedures	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.4. Call signs (Characters, pronounceable words, Common Military Aircraft call signs)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.5. External Communications (Calling, Answer)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.6. Signal Checks, Strength, Readability	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.7. Phonetic Alphabet	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.8. Phonetic Numbers	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.9. Military Clock Position	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
9.10. Greenwich Mean Time (GMT)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10. PUBLICATIONS (AFC)													
10.1. Electronic Flight Bag (EFB)													
10.1.1. Navigate EFB Applications	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
10.1.2. Update Required Publications	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
10.1.3. Find Appropriate References	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
10.2. Publications													
10.2.1. Standard Publications	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.2.2. Air Force Technical Orders (T.O.s)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.2.3. Air Force Manuals (AFMANs)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3. Flight Manuals													
10.3.1. -1's	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3.2. 1-1's	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3.3. -9's	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3.4. Vol 3's	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3.5. MEL	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3.6. Checklists	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.3.7. Checklist Inserts	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.4. AFTO IMT 781 Series													

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
10.4.1. AFTO 781 Series Forms	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
10.4.2. Identify AFTO 781 Series Forms	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
10.4.3. Interpret Mission Impact of AFTO 781 Series Forms	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
10.4.4. Document Discrepancies in AFTO Form 781A	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
11. AIRCRAFT SYSTEMS / EQUIPMENT (AFC)													
11.1. Electrical Systems													
11.1.1. Electrical Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.1.2. AC electrical system fundamentals	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.1.3. DC electrical system fundamentals	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.1.4. Electrical Distribution	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.1.5. Electrical Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.2. Hydraulic Systems													
11.2.1. Hydraulic Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.2.2. Hydraulic Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.3. Bleed Air Systems													
11.3.1. Bleed Air Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.3.2. Bleed Air Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.4. Air Conditioning Systems													
11.4.1. Air Conditioning Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.4.2. Air Conditioning Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.5. Pressurization Systems	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.5.1. Pressurization Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.5.2. Pressurization Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.6. Communication Systems													
11.6.1. Internal Communication Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.6.2. External Communication Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.6.3. Communication Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.7. Fuel Systems													
11.7.1. Fuel Theory of Operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.7.2. Fuel Storage	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.7.3. Fuel Distribution	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
11.7.4. Fuel Components	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
11.8. Engine Systems													
11.8.1. Engine Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.8.1.1. Turbofan	**3, 5**							**A**	**B**	-	-	-	-
11.8.1.2. Turboprop	**3, 5**							**A**	**B**	-	-	-	-
11.8.2. Engine Components	**3, 5**							**A**	**B**	-	-	-	-
11.9. Flight Instruments Systems													
11.9.1. Flight Instrument Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.9.2. Flight Instrument Input Sources	**3, 5**							**A**	**B**	-	-	-	-
11.9.3. Flight Instrument Types													
11.9.3.1. Primary Flight Instruments	**3, 5**							**A**	**B**	-	-	-	-
11.9.3.2. Secondary Flight Instruments	**3, 5**							**A**	**B**	-	-	-	-
11.9.4. Flight Instrument Components	**3, 5**							**A**	**B**	-	-	-	-
11.10. Flight Controls Systems													
11.10.1. Flight Controls Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.10.2. Primary Flight Controls	**3, 5**							**A**	**B**	-	-	-	-
11.10.3. Secondary Flight Controls	**3, 5**							**A**	**B**	-	-	-	-
11.10.4. Flight Control Components	**3, 5**							**A**	**B**	-	-	-	-
11.11. Landing Gear Systems													
11.11.1. Landing Gear Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.11.2. Landing Gear Types	**3, 5**							**A**	**B**	-	-	-	-
11.11.3. Landing Gear Components	**3, 5**							**A**	**B**	-	-	-	-
11.12. Brake Systems													
11.12.1. Brake Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.12.2. Brake Components	**3, 5**							**A**	**B**	-	-	-	-
11.13. Auxiliary Power Unit Systems													
11.13.1. Auxiliary Power Unit Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.13.2. Auxiliary Power Unit Components	**3, 5**							**A**	**B**	-	-	-	-
11.14. Fire Detection Systems													
11.14.1. Fire Detection Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.14.2. Fire Detection Components	**3, 5**							**A**	**B**	-	-	-	-
11.15. Fire Extinguishing Systems													
11.15.1. Fire Extinguishing Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.15.2. Fire Extinguishing Components	**3, 5**							**A**	**B**	-	-	-	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
11.16. Aircraft Sensors Systems													
11.16.1. Aircraft Sensors Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.16.2. Aircraft Sensors Components	**3, 5**							**A**	**B**	-	-	-	-
11.17. Aircraft Defensive Systems													
11.17.1. Aircraft Defensive Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.17.2. Aircraft Defensive Components	**3, 5**							**A**	**B**	-	-	-	-
11.18. Propeller Systems													
11.18.1. Propeller Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.18.2. Propeller Components	**3, 5**							**A**	**B**	-	-	-	-
11.19. Aircraft Miscellaneous Systems													
11.19.1. Aircraft Miscellaneous Theory of Operation	**3, 5**							**A**	**B**	-	-	-	-
11.19.2. Aircraft Miscellaneous Components	**3, 5**							**A**	**B**	-	-	-	-
11.20. Aircraft System Schematics	**3, 5**							**A**	**B**	-	-	-	-
11.21. Aircraft Mishaps related to Aircraft Systems	**3, 5**							**A**	**B**	-	-	-	-
11.22. Aircraft Safety Reports related to Aircraft Systems	**3, 5**							**A**	**B**	-	-	-	-
12. AERODYNAMICS (AFC)													
12.1. Turboprop / Turbo-Fan Propulsion	**3, 5**							**A**	**B**	-	-	-	-
12.2. Fixed Wing	**3, 5**							**A**	**B**	-	-	-	-
12.3. Rotary Wing	**3, 5**							**A**	**B**	-	-	-	-
12.4. Atmosphere and Weather													
12.4.1. Basic Atmosphere / Physics Principles	**3, 5**							**A**	**B**	-	-	-	-
12.4.2. Weather Report													
12.4.2.1. Weather Report Formatting	**3, 5**							**A**	**B**	-	-	-	-
12.4.2.2. Extract Weather Report	**3, 5**							**2b**	**b**	-	-	-	-
12.4.2.3. Interpret Weather Report	**3, 5**							**2b**	**b**	-	-	-	-
12.4.2.4. Weather Emergencies/Safety Mishaps	**3, 5**							**A**	**B**	-	-	-	-
13. GENERAL NAVIGATION (AFC)													
13.1. NAVAID Identification and Principles	**3, 5**							**A**	**B**	-	-	-	-
13.2. Position Orientation	**3, 5**							**A**	**B**	-	-	-	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
13.3. Terminal and En-route Procedures	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
13.4. Rendezvous Procedures	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
13.5. Aircraft Charts	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
13.6. Navigation Emergencies/Safety Mishaps	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14. AIRFIELD OPERATIONS (AFC)	**AFMAN 17-1302-0, Communications Security (COMSEC) Operations; AFI 1-1, Air Force Standards; AFI 13-207-0, Preventing and Resisting Aircraft Piracy (Hijacking) (FOUO); DAFI 31-101, Integrated Defense (ID)**												
14.1. Airfield Layout	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.2. Airfield Markings	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.3. Support Agencies	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.4. Airfield Activities	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5. Airfield Safety	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5.1. Bird Aircraft Strike Hazard (BASH)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5.2. Fire Fighting Equipment	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5.3. Emergency Egress Procedures	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5.4. Aircraft Security	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5.5. Anti-Hijacking	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
14.5.6. Flight Line Security (OPSEC, COMSEC, Social Media)	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
15. NON-CAREER ENLISTED AVIATOR REQUIREMENTS	**AFMAN 11-402, Aviation and Parachutist Service; DAFMAN 11-401, Aviation Management; DAFI 36-2670, Total Force Development; AFMAN 10-2503, Operations in a Chemical, Biological, Radiological, and Nuclear, (CBRN) Environment; AFI 10-201, Force Readiness Reporting; AFTTP3-2.44, Multi Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Reconnaissance and Surveillance; AFTTP3-2.46, Multi-Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Passive Defense**												
15.1. AF Form 4324, Universal Qualification	**5**							**-**	**-**	**-**	**-**	**B**	**-**
15.2. Obtain a minimum of 6-flight hours while in UGT	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
15.3. Conduct primary in-flight duties													
15.3.1. Observe, evaluate and assist with the unique physiological demands of the Major Weapons System (MWS)	**5**							**-**	**b**	**-**	**-**	**3c**	**-**
15.3.2. Observe, evaluate and assist with human factors/human performance challenges within the MWS and/or mission set	**5**							**-**	**b**	**-**	**-**	**3c**	**-**
15.3.3. Observe, evaluate and assist with aircrew breathing systems, and aircrew/MWS interface	**5**							**-**	**b**	**-**	**-**	**3c**	**-**
15.3.4. Provide Operational Safety, Suitability and Effectiveness (OSS&E) lessons learned to existing aircrew training	**5**							**-**	**b**	**-**	**-**	**3c**	**-**

platforms and human systems integration														
1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	**2. TASKS**		**3. CERTIFICATION FOR OJT**					**4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE**				**5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION**	
15.4. Complete Aircrew, Chemical, Biological, Radiological, Nuclear (ACBRN) Training (LL04)	**5, 7**	~						-	-	-	-	-	-
15.5. Complete S-V84-A, USAF Underwater Egress Training (UET/SERE) course								-	-	-	-	-	-
15.6. Complete S-V85-A, Emergency Parachute and Water Survival Training (SERE) course	**3**							-	-	-	-	-	-
15.7. Complete S-V97-A, Advanced SERE Skills Training course	**3**							-	-	-	-	-	-
16. AEROSPACE PHYSIOLOGY TRAINING TEAM (APTT)	**TR: AFMAN 11-403, Aerospace Physiological Training Program; AFPAM 11-417, Orientation in Aviation; AFMAN 11-404, Fighter Aircrew Acceleration Training Program; Crew Resource Management (second edition), Barbar Kanki, Robert Helmreich, and Jose Anca; DAFI 91-204, Safety Investigations and Reports; AFI 91-202, The US Air Force Mishap Prevention Program; DAFI 36-2710, Equal Opportunity Program; AFH 36-2643, Air Force Mentoring Program; DAFMAN 91-203, Air Force Occupational Safety, Fire, and Health Standards; DAFI 91-204, Safety Investigations and Reports; AFSAS; Safety University Materials; CFR 1904, Recording and Reporting Occupational Injuries and Illnesses; CFR 1960; Basic Program Elements for Federal Employee Occupational Safety and Health Programs and Related Matters**												
16.1. Purpose of the APTT program	**3, 5, 7**							**A**	**B**	**C**	-	-	-
16.2. Receive Safety Privilege Briefing and non-disclosure requirements	**3**							**A**	-	-	-	-	-
16.3. APTT human performance optimization strategies													
16.3.1. Fatigue countermeasures	**3, 5, 7**							**A**	**B**	**C**	-	-	-
16.3.2. Use SAFTE Fatigue Avoidance Scheduling Tool (FAST)	**7**							-	-	**2b**	-	-	**3c**
16.3.3. Visual Protection (safety/flight) devices	**7**							-	-	**C**	-	-	-
16.3.4. Performance Based Fitness and Nutrition	**7**							-	-	**C**	-	-	-
16.3.5. Lead AP topic guided discussion (30 minute)	**7**							-	-	**3c**	-	-	-
16.3.6. Conduct a capstone lecture on Fatigue Countermeasures	**7**							-	-	-	-	-	**3c**
16.3.7. Conduct a capstone lecture on Performance Based Fitness and Nutrition	**7**							-	-	-	-	-	**3c**
16.4. Human Systems Integration (HSI) (software, hardware, human)	**5, 7**							-	-	**B**	-	**A**	-
16.5. Risk Management	**3**							**A**	-	-	-	-	-
16.6. Navigate Air Force Safety Automated System (AFSAS) database	**5**							-	-	-	-	**2b**	-
16.7. Conduct briefing based on AFSAS data	**7**							-	-	**3c**	-	-	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
16.8. Aviation Safety Action Program (ASAP)	**5**							**-**	**-**	**-**	**-**	**B**	**-**
16.9. Prepare trend analysis	**7**							**-**	**-**	**2b**	**-**	**-**	**-**
16.10. Identify Recommendations from trend analysis	**7**							**-**	**-**	**2b**	**-**	**-**	**-**
16.11. Complete the Mishap Investigation Non-Aviation (MINA) course	**7**							**-**	**-**	**X**	**-**	**-**	**-**
16.12. Complete the Aircraft Mishap Investigation Course (AMIC)	**7**							**-**	**-**	**X**	**-**	**-**	**-**
16.13. Complete the USAF NVG Academic Instructor Course (NVGAIC)	**5**							**-**	**-**	**-**	**-**	**-**	**-**
16.14. Complete the Human Factors Workshop for AP Professionals	**7**							**-**	**-**	**C**	**-**	**-**	**-**
16.16. Complete the Top Knife II course								**-**	**-**	**-**	**-**	**-**	**-**
17. AEROSPACE PHYSIOLOGY ADMINISTRATIVE FUNCTIONS	**TR: AFMAN 11-403, Aerospace Physiological Training Program; AFI 33-322, Records Management and Information Governance Program; T.O. 43D8-3-2-81, Hypobaric Training Assembly Models 20M331, 20M491, 20M6321, and 10006; AFPAM 11-406, Aerospace Physiology Program Guidance; TO 00-5-1, AF Technical Order System; T.O. 00-5-15, Air Force Time Compliance Technical Order Process; AFMAN 11-202V1, Aircrew Training**												
17.1. Aviation records management	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.2. Maintain a Files plan	**5**							**-**	**-**	**-**	**-**	**2b**	**-**
17.3. Scheduling considerations													
17.3.1. MDS familiarization	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
17.3.2. Determine appropriate AP course for students	**3, 5**							**2b**	**B**	**-**	**-**	**-**	**-**
17.3.3. Exposure limitations	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.3.4. IO/Instructor-student ratio	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.3.5. Crew complement	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.3.6. Crew qualifications and currencies	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.4. Forms commonly used in AP functions													
17.4.1 DD Form 2992, Medical Recommendation for Flying or Special Operational Duty	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.4.2. DCS Narrative	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.4.3. DCS Equipment Check	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.4.4. Prepare AP Report	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
17.4.5. Subjective Airsickness Rating Form	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
17.4.6. G-Strain Critique Form	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.4.7. G-Awareness Worksheet	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
17.4.8. Prepare Chamber Flight Worksheet	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
17.4.9. Prepare DD Form 114, Military Pay Order	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
17.4.10. Prepare AF 1522, Arms Additional Training Accomplishment Report	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
17.5. Identify where to locate the AP Program Equipment and Supply Listing	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
18. UNDERGRADUATE PILOT TRAINING (UPT) INSTRUCTION FUNDAMENTALS	**TR: T.O. 14-1-1, U.S. Air Force Aircrew Flight Equipment Clothing and Equipment; T.O. 14D1-2-1, Operation - Personnel Parachutes; AFI 11-301V1, Aircrew Flight Equipment (AFE) Program; T.O. 1T-6A-1, Flight Manual, USAF/USN Series T-6A Aircraft; T.O. 1T-6A-1CL-1, Acceptance/Functional Check Flight Checklist; T.O. 13A5-69-2, Egress Maintenance and Build-up Manual; AFMAN 11-2T-6V3, T-6 Operations Procedures; HQ AETC FCIF 18-12-01, "T-6 Special Information Leaflet, Aircrew Operations of Emergency Oxygen System"; Martin-Baker Special Information leaflet No. 701; T.O. 1T-38C-1, Flight Manual USAF Series T-38C Aircraft; 1T-1A-2-25GS-00-1, T-1A Equipment Furnishing**												
18.1. T-1 Egress Training:													
18.1.1. Explain location, operation, and preflight of emergency systems and equipment								**-**	**-**	**-**	**-**	**c**	**-**
18.1.2. Explain location and operation of emergency exits								**-**	**-**	**-**	**-**	**c**	**-**
18.1.3. Explain emergency egress procedures for ground egress, crash landing, and ditching								**-**	**-**	**-**	**-**	**c**	**-**
18.1.4. Prepare and deliver lecture on T-1 Egress								**-**	**-**	**-**	**-**	**3c**	**-**
18.1.5. Conduct T-1 ground egress practical								**-**	**-**	**-**	**-**	**3c**	**-**
18.2. T-6 Egress Training:													
18.2.1. Explain ejection System								**-**	**-**	**-**	**-**	**c**	**-**
18.2.2. Explain canopy features and operation								**-**	**-**	**-**	**-**	**c**	**-**
18.2.3. Explain ejection system preflight procedures								**-**	**-**	**-**	**-**	**c**	**-**
18.2.4. Explain seat strap-in procedures								**-**	**-**	**-**	**-**	**c**	**-**
18.2.5. Explain emergency ground egress								**-**	**-**	**-**	**-**	**c**	**-**
18.2.6. Explain ejection procedures								**-**	**-**	**-**	**-**	**c**	**-**
18.2.7. Explain green ring pull procedures								**-**	**-**	**-**	**-**	**c**	**-**
18.2.8. Prepare and deliver lecture on T-6 Egress								**-**	**-**	**-**	**-**	**3c**	**-**
18.2.9. Operation of T-6 egress trainers												**c**	

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18.2.10. Conduct T-6 ground egress demonstration via trainer								-	-	-	-	3c	-
18.2.11. Conduct T-6 air egress demonstration via trainer								-	-	-	-	3c	-
18.3. T-38 Egress Training:													
18.3.1. Explain ejection system								-	-	-	-	c	-
18.3.2. Explain canopy features and operation								-	-	-	-	c	-
18.3.3. Explain ejection system preflight								-	-	-	-	c	-
18.3.4. Explain seat strap-in procedures								-	-	-	-	c	-
18.3.5. Explain emergency ground egress								-	-	-	-	c	-
18.3.6. Explain ejection procedures								-	-	-	-	c	-
18.3.7. Explain green ring pull procedures								-	-	-	-	c	-
18.3.8. Conduct Teaching Lecture on T-38 Egress								-	-	-	-	3c	-
18.3.9. Operate T-38 egress trainers								-	-	-	-	3c	-
18.3.10. Conduct T-38 ground egress demonstration via trainer								-	-	-	-	3c	-
18.3.11. Conduct T-38 air egress trainer demonstration via trainer								-	-	-	-	3c	-
19. PARACHUTE FAMILIARIZATION TRAINING	**TR: AFMAN 11-420, Static Line Parachuting Techniques and Training; AFI 10-3503, Personnel Parachute Program**												
19.1. Characteristics and purpose of the Swing Landing Trainer (SLT)	**3, 5**							**A**	**B**	-	-	-	-
19.2. Characteristics and purpose of the Lateral Drift Trainer (LDT)	**3, 5**							**A**	**B**	-	-	-	-
19.3. Parachute descent procedures and canopy malfunctions	**3, 5**							**A**	**B**	-	-		-
19.4. Perform PLF instructor duties/training								-	-	-	-	3c	-
19.5. Perform drag instructor duties/recovery								-	-	-	-	3c	-
19.6. Perform hanging harness instructor duties								-	-	-	-	3c	-
19.7. Perform safety supervisor duties								-	-	-	-	3c	-
19.8. Complete the Basic Airborne Course								-	-	-	-	-	-
20. SPATIAL DISORIENTATION TRAINER (SDT)	**TR: GYRO IPT II O&M-103610-0**												
20.1. SDT	**3, 5**							**A**	**B**	-	-	-	-
20.2. Identify visual and vestibular limitations and their susceptibility to error	**3, 5**							**A**	**B**	-	-	-	-
20.3. Perform Daily Start-Up Checklist								-	-	-	-	3c	-

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
20.4. Perform Shutdown Checklist								-	-	-	-	3c	-
20.5. Perform emergency procedures								-	-	-	-	3c	-
20.6. SDT Maintenance													
20.6.1. Check and adjust pressure								-	-	-	-	3c	-
20.6.2. Perform Weekly Inspection								-	-	-	-	3c	-
20.6.3. Perform Monthly Inspection								-	-	-	-	3c	-
20.6.4. Perform Quarterly Inspection								-	-	-	-	3c	-
20.7. SDT in a flight simulated environment													
20.7.1. Perform basic aviation procedures in conditions that promote visual illusions due to common SD								-	-	-	-	3c	-
20.7.2. Practice recovery methods to maintain aircraft control								-	-	-	-	3c	-
20.7.3. Run SD profiles: Graveyard Spin/Spiral, Leans, Coriolis								-	-	-	-	3c	-
20.7.4. Perform as Operator on the SDT								-	-	-	-	3c	-
20.7.5. Perform as Lecturer on the SDT								-	-	-	-	3c	-
21. TECHNICAL ORDERS (T.O.)	**T.O. 00-5-1, AF Technical Order System; T.O. 00-5-15, Air Force Time Compliance Technical Order Process; AFPAM 11-406, Aerospace Physiology Program Guidance**												
21.1. T.O. system	**3, 5**							**A**	**B**	-	-	-	-
21.2. Use T.O.	**3, 5**							**2b**	-	-	-	3c	-
21.3. Enhanced Technical Information Management System (ETIMS)													
21.3.1. Prepare a T.O. change request	**5, 7**							-	-	-	-	b	c
21.3.2. Add T.O.s to library	**5, 7**							-	-	-	-	b	c
21.3.3. Locate the AP T.O. reference table	**5, 7**							-	-	-	-	2b	3c
22. TOOLS	**T.O. 32-1-101, Use and Care of Hand Tools and Measuring Tools; T.O. 15X-1-1, Maintenance Instructions - Oxygen Equipment**												
22.1. Use and care of hand tools	**3, 5**							**A**	-	-	-	B	-
22.2. Calibrate tools	**3, 5, 7**							**b**	-	-	-	2b	3c
22.3. Use Oxygen safe tools	**3, 5, 7**							**b**	-	-	-	2b	3c
22.4. Manage Tools	**3, 5, 7**							**b**	-	-	-	2b	3c

23. AIRCREW BREATHING SYSTEMS	**TR: T.O. 15X-1-1, Maintenance Instructions - Oxygen Equipment; T.O. 15X1-4-2-12, Operation and Field Maintenance Instructions, Emergency Bail-Out Oxygen Cylinder Assemblies; T.O. 15X6-3-13-3, Overhaul Instructions - Pressure Demand Oxygen Regulator Type 68/A; T.O. 15X6-3-21-13, Oxygen Regulator CRU-73/A, CRU-92/A; T.O. 15X6-4-3-1, Operation and Maintenance Instructions, Type MA-1 Portable Breathing Oxygen Cylinder and Regulator; T.O. 42B5-1-2, Gas Cylinders (Storage Type) Use, Handling, and Maintenance; T.O. 42B6-1-1, Quality Control of Aviator's Breathing Oxygen; T.O. 15X5-4-4-13, Overhaul Instsructions with IPB - Pressure Demand Breathing Oxygen Mask USAF, Type MBU-5/P; T.O. 15X5-3-6-1, Operation, Fitting, Inspection and Maintenance Instructions with IPB for MBU-12/P Pressure-Demand Oxygen Mask; T.O. 14P3-1-161, Combined Advanced Technology Enhanced Design "G" Ensemble (Combat Edge Equipment); T.O. 33D2-10-67-2, PBG Oxygen Regulator Field Tester**												
23.1 System Communication and Oxygen Tester (SCOT)													
23.1.1. Perform aviator mask seal check	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
23.1.2. Perform aviator mask communications check	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
23.1.3. Perform CRU-60/P pressure drop test	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
23.2. Inspect and maintain Quick-Don Oxygen Mask Assembly								**-**	**-**	**-**	**-**	**b**	**-**
23.3. Inspect, maintain and fit the MBU-12/P	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
23.4. Inspect, maintain and fit the MBU-23/P	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
23.5. Inspect, maintain and fit the HGU-55/P helmet	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
23.6. Inspect and maintain the CRU-60/P connector	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
23.7. Inspect and maintain MA-1 portable oxygen assembly	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	
24. PHYSIOLOGICAL EVENTS IN THE ALTITUDE CHAMBER	**TR: AFMAN 11-403, Aerospace Physiological Training Program; AFPAM 11-406, Aerospace Physiology Program Guidance**												
24.1. Demonstrate ability to render aid for Hypoxia in a low-pressure environment	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.2. Demonstrate ability to render aid for Hyperventilation in a low pressure environment	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.3. Demonstrate ability to render aid for Claustrophobia and Apprehension	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.4. Demonstrate ability to render aid for Middle ear discomfort while climbing to altitude and on descent	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.5. Demonstrate ability to render aid for Sinus discomfort while climbing to altitude and on descent	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.6. Demonstrate ability to render aid for Gastrointestinal Tract discomfort while climbing to altitude	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.7. Demonstrate ability to render aid for Barodontalgia while climbing to altitude	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**

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24.8. Demonstrate ability to render aid for suspected lung problems	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.9. Demonstrate ability to render aid for Decompression Sickness in a low pressure environment	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.10. Demonstrate ability to render aid for Oxygen paradox in a low pressure environment	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.11. Demonstrate ability to render aid for an Unconscious student in a low pressure environment	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.12. Demonstrate ability to take and record blood pressure	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.13. Demonstrate ability to take a pulse and identify the ideal check points on the human body	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.14. Demonstrate ability to take respiratory rates while rendering aid	**3, 5, 7**							**2b**	**b**	**-**	**-**	**3c**	**4c**
24.15. Demonstrate ability to recognizing life threatening emergencies and provide CPR	**3**							**3c**	**-**	**-**	**-**	**-**	**-**
25. ALTITUDE CHAMBER	**TR: AFMAN 11-403, Aerospace Physiological Training Program; T.O. 43D8-3-2-81, Hypobaric Training Assembly Models 20M331, 20M491, 20M6321, and 10006; T.O. 43D8-3-2-6, Inspection Requirements - Hypobaric Training Chambers; T.O. 15X6-3-13-3, Overhaul Instructions - Pressure Demand Oxygen Regulator Type 68/A; T.O. 15X6-4-3-1, Operation and Maintenance Instructions, Type MA-1 Portable Breathing Oxygen Cylinder and Regulator; T.O. 00-20-1, Aerospace Equipment Maintenance Inspection, Documentation, Policy, and Procedures; AFPAM 11-406, Aerospace Physiology Program Guidance; T.O. 15X6-3-21-13, Overhaul Instructions, Depot, Diluter Deman Pressure Breathing Oxygen Regulator**											
25.1. Characteristics and purpose of an Altitude Chamber	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
25.2. Inside Observer (IO)													
25.2.1. Perform as IO in the main chamber	**3, 5**							**2b**	**b**	**-**	**-**	**-**	**-**
25.2.2. Perform as IO3 in the Lock compartment	**5, 7**							**-**	**b**	**-**	**-**	**-**	**4c**
25.2.3. Emergency procedures													
25.2.3.1. Demonstrate response for Fire/Smoke/Fumes Inside/Outside Chamber	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.2.3.2. Demonstrate response for Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.2.3.3. Demonstrate response for Loss of Oxygen	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.2.3.4. Demonstrate response for Pump Failure	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.2.3.5. Demonstrate response for Tornado Watch/Warning	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
25.2.3.6. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.3. Lecturer													
25.3.1 Role and responsibilities	**3, 5**							**A**	**B**	**-**	**-**		**-**
25.3.2. Recognize symptoms of hypoxia	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.3. Recognize symptoms of hyperventilation	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.4. Counteract mechanical effects of pressure change (e.g. ears, sinuses and gastrointestinal tract)	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.5. Demonstrate pressure breathing techniques	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.6. Demonstrate in-flight checks of oxygen equipment	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.7. Demonstrate night visual acuity demonstration	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.8. Demonstrate use of emergency oxygen equipment	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.9. Prepare and deliver Type 1 Initial Chamber Flight Teaching Lecture	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.10. Prepare and deliver Type 2 Rapid Decompression Teaching Lecture	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.11. Prepare and deliver Type 3 (HAP) Initial Chamber Flight Teaching Lecture	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.12. Prepare and deliver Type 4 Refresher Chamber Flight Teaching Lecture	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.13. Prepare and deliver Type 5 (HELO) Refresher Chamber Flight Teaching Lecture	**5**							**-**	**-**	**-**	**-**	**3c**	**-**
25.3.14. Emergency procedures													
25.3.14.1. Demonstrate response for Fire/Smoke/Fumes Inside/Outside Chamber	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.3.14.2. Demonstrate response for Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.3.14.3. Demonstrate response for Loss of Oxygen	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.3.14.4. Demonstrate response for Pump Failure	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.3.14.5. Demonstrate response for Tornado Watch/Warning	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
25.3.14.6. Demonstrate response for Physiological Reactions	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.3.14.7. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4. Crew Chief (CC)													
25.4.1. Role and responsibilities	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
25.4.2. Conduct operational procedures	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
25.4.3. Emergency procedures													
25.4.3.1. Demonstrate response for Fire/Smoke/Fumes Inside/Outside Chamber	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4.3.2. Demonstrate response for Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4.3.3. Demonstrate response for Loss of Oxygen	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4.3.4. Demonstrate response for Pump Failure	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4.3.5. Demonstrate response for Tornado Watch/Warning	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4.3.6. Demonstrate response for Physiological Reactions	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.4.3.7. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5. Chamber Operator (CO)													
25.5.1. Role and responsibilities	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
25.5.2. Conduct operational procedures	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
25.5.3. Emergency procedures													
25.5.3.1. Demonstrate response for Fire/Smoke/Fumes Inside/Outside Chamber	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5.3.2. Demonstrate response for Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5.3.3. Demonstrate response for Loss of Oxygen	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5.3.4. Demonstrate response for Pump Failure	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5.3.5. Demonstrate response for Tornado Watch/Warning	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5.3.6. Demonstrate response for Physiological Reactions	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.5.3.7. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6. Lock Operator (LO) duty													

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25.6.1. Role and responsibilities	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
25.6.2. Conduct operational procedures	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
25.6.3. Emergency procedures													
25.6.3.1. Demonstrate response for Fire/Smoke/Fumes Inside/Outside Chamber	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6.3.2. Demonstrate response for Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6.3.3. Demonstrate response for Loss of Oxygen	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6.3.4. Demonstrate response for Pump Failure	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6.3.5. Demonstrate response for Tornado Watch/Warning	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6.3.6. Demonstrate response for Physiological Reactions	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.6.3.7. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7. Recorder (REC) duty													
25.7.1. Role and responsibilities	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
25.7.2. Conduct operational procedures	**3, 5**							**b**	**-**	**-**	**-**	**3c**	**-**
25.7.3. Emergency procedures													
25.7.3.1. Demonstrate response for Fire/Smoke/Fumes Inside/Outside Chamber	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7.3.2. Demonstrate response for Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7.3.3. Demonstrate response for Loss of Oxygen	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7.3.4. Demonstrate response for Pump Failure	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7.3.5. Demonstrate response for Tornado Watch/Warning	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7.3.6. Demonstrate response for Physiological Reactions	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.7.3.7. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
25.8. Altitude Chamber Familiarization:													
25.8.1. Complete Initial chamber flight	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
25.8.2. Complete Rapid Decompression	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
25.8.3. Lecture Rapid Decompression	**3, 5**							**2b**	**-**	**-**	**-**	**3c**	**-**
25.8.4. Altitude chamber crew communication lab	**3**							**2b**	**-**	**-**	**-**	**-**	**-**

1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	2. TASKS		3. CERTIFICATION FOR OJT					4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE				5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION	
26. ALTITUDE CHAMBER AND SUB SYSTEMS INSPECTIONS AND MAINTENANCE	**TR: AFMAN 11-403, Aerospace Physiological Training Program; T.O. 43D8-3-2-81, Hypobaric Training Assembly Models 20M331, 20M491, 20M6321, and 10006; T.O. 43D8-3-2-6, Inspection Requirements, Hypobaric Training Chambers; T.O. 15X6-3-13-3, Overhaul Instructions - Pressure Demand Oxygen Regulator Type 68/A; T.O. 15X6-4-3-1, Operation and Maintenance Instructions, Type MA-1 Portable Breathing Oxygen Cylinder and Regulator; T.O. 00-20-1, Aerospace Equipment Maintenance Inspection, Documentation, Policy, and Procedures; AFPAM 11-406, Aerospace Physiology Program Guidance; T.O. 15X6-3-21-13, Overhaul Instructions, Depot, Diluter Demand Pressure Breathing Oxygen Regulator; T.O. 00-26-107, Maintenance Assistance**												
26.1. Complete Supply Block IIB training	**5**							**-**	**-**	**-**	**-**	**-**	**-**
26.2. Equipment Hazards													
26.2.1. Altitude Chamber	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.2.2. Valves	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.2.3. Vacuum Pumps	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.2.4. Oxygen Manifold	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.2.5. Pressurized cylinders	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.3. Identify the difference between field maintenance (Mx) and Contractor Logistics Support Mx	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
26.4. Demonstrate Pre-flight	**3, 5**							**a**	**-**	**-**	**-**	**3c**	**-**
26.5. Inspect the emergency system battery	**3, 5, 7**							**a**	**-**	**-**	**-**	**b**	**-**
26.6. Inspect and maintain Low Pressure Braided Oxygen Supply Lines	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.7. Inspect and maintain MD1 Panel (Narrow Panel Regulator)	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.8. Inspect and maintain Absolute Pressure Indicator	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.9. Inspect and maintain digital altimeter/Rate of Climb Indicator	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.10. Chiller Operations (e.g. normal and after city water use)	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
26.11. Control panel(s) Opening/Closing	**3, 5**							**A**	**-**	**-**	**-**	**B**	**-**
26.12. Periodic Inspection													
26.12.1. Conduct Leak Test in the main chamber	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.12.2. Perform a V-Belt Inspection	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.12.3. Remove/install Chamber Oxygen Pressure Gauge (instructor panel)	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.12.4. Inspect and maintain Chiller (Koolant Kool/Dimplex Master Chill Unit)	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**

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26.12.5. Adjust Chiller Discharge Temperature	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.12.6. Inspect and maintain Air Compressor	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.12.7. Refill Lubricator Oil (RD Valve)	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.13. Altitude Chamber Maintenance													
26.13.1. Inspect and maintain Filler Valve/Hose	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.13.2. Inspect and maintain Communication Box	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.13.3. Inspect and maintain Narrow Panel Regulator	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.13.4. Inspect and maintain oxygen equipment on consoles	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
26.14. Special Inspection													
26.14.1. Vacuum pump system	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.15. Inspection forms													
26.15.1. Recall how to prepare and maintain AFTO Form 95	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.15.2. Recall how to prepare and maintain AFTO Form 334	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.15.3. Recall how to prepare and maintain AFTO Form 244/245	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.16. Altitude Chamber Oxygen systems:													
26.16.1. Oxygen manifold theory of operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
26.16.2. Connect/Disconnect high pressure oxygen cylinders	**3, 5, 7**							**2b**	**-**	**-**	**-**	**2b**	**3c**
26.16.3. Check/Inspect oxygen regulators	**3, 5, 7**							**a**	**-**	**-**	**-**	**2b**	**3c**
27. CENTRIFUGE	**TR: AFMAN 11-404, Fighter Aircrew Acceleration Program; AFPAM 11-419, G-Awareness for Aircrew**												
27.1. Purpose of the Centrifuge Program and theory of operation	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
27.2. Physiological factors	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
27.3. Types of acceleration	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
27.4. G forces	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
27.5. G-LOC characteristics	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
27.6. Factors affecting tolerance to +Gz	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
27.7. Self-imposed factors affecting G-tolerance	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**

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27.8. Complete centrifuge orientation (perform resting tolerance level)	**3, 7**							**2b**	**-**	**2b**	**-**		**-**
27.9. Complete Initial Centrifuge (Primary Acceleration Training) course (S-O-B/A-APC-P)								**-**	**-**	**-**	**-**	**-**	**-**
27.10. Complete Qualification Centrifuge (Advanced Acceleration Training) course (S-O-B/A-APC-A)								**-**	**-**	**-**	**-**	**-**	**-**
27.11. Complete Other Centrifuge (Foreign exchange, inter-service, non-pipeline) course (S-O-B/A-APC-O)								**-**	**-**	**-**	**-**	**-**	**-**
28. CENTRIFUGE OPERATIONS													
28.1. Perform Lecturer/Observer (LEC)								**-**	**b**	**-**	**-**	**3c**	**-**
28.2. Perform Operator (OP)								**-**	**b**	**-**	**-**	**3c**	**-**
28.3. Perform Crew Chief (CC)								**-**	**b**	**-**	**-**	**3c**	**-**
28.4. Perform Swingman								**-**	**b**	**-**	**-**	**3c**	**-**
28.5. Identify the role of the Aerospace Physiologist Officer (APO)								**-**	**B**	**-**	**-**	**-**	**-**
29. HIGH ALTITUDE AIRDROP MISSION SUPPORT (HAAMS)	**TR: AFMAN 11-202V3, Flight Operations; DAFMAN 11-401, Aviation Management; AFMAN 11-403, Aerospace Physiological Training Program; AFMAN 11-409, High Altitude Airdrop Mission Support Capability Program; AFI 10-3503, Personnel Parachute Operations; AFMAN 11-2C-130HV3, C-130H Operations Procedures; AFMAN 11-2C-17V3, C-17 Operations Procedures; FM 3-05.211, Special Forces Military Free-Fall Operations; AFTTP 3-42.56, High Altitude Airdrop Mission Support Operations; AFTTP 3-42.63, Special Operations Forces Aerospace and Operational Physiology; AFMAN 11-411, Special Forces Military Free-Fall Operations; T.O. 15X1-4-2-12, Operation and Field Maintenance Instructions, Emergency Bail-Out Oxygen Cylinder Assemblies; USASOC 350-2; Training Airborne Operations**											
29.1. Purpose and development of the HAAMS program	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
29.2. Management and operations of the program	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
29.3. HAAMS equipment	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
29.4. Physiological factors associated with high altitude airdrop operations	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
29.5. Complete the HAAMS course	**5**							**-**	**-**	**-**	**-**	**-**	**-**
30. HIGH ALTITUDE INTELLIGENCE SURVEILLANCE RECONNAISSANCE (HAISR)	**TR:**												
30.1. Purpose and development of the HAISR program	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
30.2. Program management and operations	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**

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30.3. Physiological factors affecting wear and use of full pressure suit	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
31. REDUCED OXYGEN BREATHING DEVICE (ROBD)	**TR: AFMAN 11-403, Aerospace Physiological Training Program, ROBD2 Programming and Technical Guide, Revision 8; ROBD User Manual, Revision 6; AFPAM 11-406, Aerospace Physiology Program Guidance**												
31.1. ROBD	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
31.2. Complete Hypoxia Practical as a student	**3**							**2b**	**-**	**-**	**-**	**-**	**-**
31.3. Conduct ROBD Pre-flight Inspection	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.4. Configure ROBD	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.5. Program ROBD	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.6. Operate ROBD	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.7. Perform Instructor/Observer Duty	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8. Perform ROBD Emergency Procedures													
31.8.1. Apprehension and Claustrophobia	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.2. Hyperventilation	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.3. Suffocation	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.4. Non-demonstration Hypoxia	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.5. Loss of Consciousness	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.6. Power Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.7. Fire	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.8. System Oxygen, Nitrogen or Air Loss	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.9. Demonstrate response for an Active Shooter scenario	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.10. Shutdown/Reconfigure ROBD/HFT Storage/Shipment	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
31.8.11. Perform ROBD Oxygen Sensor Replacement and system Function Test	**3,5**							**b**	**b**	**-**	**-**	**3c**	**-**
32. HYPOXIA FAMILIARIZATION TRAINER (HFT)	**TR: AFMAN 11-403, Aerospace Physiological Training Program, ROBD2 Programming and Technical Guide, Revision 8; ROBD User's Manual, Revision 6; AFPAM 11-406, Aerospace Physiology Program Guidance**												
32.1. HFT	**3, 5**							**A**	**B**	**-**	**-**	**-**	**-**
32.2. Conduct HFT Pre-flight Inspection	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
32.3. Configure HFT	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
32.4. Operate HFT	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**
32.5. Complete Initial Training Profile lecture using aviation simulator software	**3, 5**							**b**	**b**	**-**	**-**	**3c**	**-**

33. PARACHUTE OPERATIONS HYPOXIA FAMILIARIZATION TRAINER (POHFT)	**TR: AFMAN 11-403, Aerospace Physiological Training Program; AFPAM 11-406, Aerospace Physiology Program Guidance; POHFT User Guide 19-1708 R~2; AETC Syllabus S-O-B/A-APH, Track J High Altitude Parachutist (HAP refresher training scenario)**												
1. TASKS, KNOWLEDGE, AND TECHNICAL REFERENCES	**2. TASKS**		**3. CERTIFICATION FOR OJT**					**4. PROFICIENCY CODES USED TO INDICATE TRAINING/INFORMATION PROVIDED VIA ICW AND/OR COURSE**				**5. PROFICIENCY CODES USED TO INDICATE OJT INFORMATION**	
33.1. POHFT	**3, 5**							**A**	**B**	-	-	-	-
33.2. Complete Training Profile (ref. AETC syllabus S-O-B/A-APH)								-	-	-	-	**3c**	-
33.3. Conduct POHFT Pre-flight Inspection								-	-	-	-	**3c**	-
33.4. Configure POHFT								-	-	-	-	**3c**	-
33.5. Operate POHFT								-	-	-	-	**3c**	-
33.6. Perform Instructor Observer Lecture using parachutist tactics techniques and procedures								-	-	-	-	**3c**	-
33.7. Shutdown/Reconfigure POHFT Storage/Shipment								-	-	-	-	**3c**	-

SECTION B – COURSE OBJECTIVE LIST

4. Contains the course Objective List and training standards supervisors use to determine if Airmen satisfied training requirements from that APA course.

Course Material - UNCLASS Aerospace Physiology Introduction	12.5 Hours TT
	Proficiency Code
1. Orientation	A
2. Career Ladder Progression	A
3. Air Force Occupational Safety and Health Program	A/a
4. Administrative Functions	A/a
5. Block I Tests	

Course Material - UNCLASS Aircrew Fundamentals	38.5 Hours TT
	Proficiency Code
1. Enlisted Aviator Information	A
2. Crew Resource Management	A
3. Publication	2b/A
4. Aircraft Systems/Equipment	A
5. Aerodynamics	2b/A
6. General Navigation	A
7. Airfield Operations	A
8. Block II Test	

Course Material - UNCLASS Aerospace Physiology Fundamentals	51.25 Hours TT
	Proficiency Code
1. Basic Medical Terminology	A
2. Anatomy and Physiology of the Body Systems	A/B
3. Introduction to Atmosphere	B
4. Physiological Effects of Altitude	B
5. Cabin Pressurization and Decompression	B
6. Physiological Considerations of Aircrew Flight Equipment	B
7. Physiological Considerations of Aircrew Flight Equipment Lab	B
8. Block III Test #1	
9. Vision	B
10. Unaided Night Vision Lab	B
11. Human Factors in Aviation	B
12. Performance Threats	B
13. Noise and Vibration	B
14. Acceleration	B
15. Spatial Disorientation	B
16. Situational Awareness	B
17. Aircraft Egress	B
18. Parachute Familiarization	A
19. Block III Test #2	

Course Material - UNCLASS Aerospace Hypobaric Chamber Operations	138.75 Hours TT

	Proficiency Code
1. Altitude Chamber	A/2b/b/A
2. Sub-system Inspection and Maintenance	A/a/2b
3. Inside Observer and Lecturer Duties	2b
4. Crew Chief Duties	A/2b
5. Chamber Operator Duties	A/2b
6. Lock Operator Duties	A/2b
7. Recorder Duties	A/2b
8. Initial Chamber and Rapid Decompression Flight	2b
9. Altitude Chamber Reactor Management	2b
10. Proficiency Flight	2b
11. Block IV Test	

Course Material - UNCLASS
Aerospace Physiology Aircrew Training — 20.5 Hours TT

	Proficiency Code
1. Aerospace Physiology Training Team	A
2. HAISR and HAAMS	A
3. Centrifuge Operations	A/1a
4. Reduces Oxygen Breathing Device	A/2b/b
5. Hypoxia Familiarization Trainer	A/b
6. Parachute Operations Hypoxia Familiarization Trainer	A
7. Block V Test	

Course Material -
Aerospace Physiology Instructional Functions — 88.5 Hours TT

	Proficiency Code
1. Instructional Techniques	A/B/a
2. Instructional Application	B/2b
3. Course Feedback and Graduation	

Summary of changes: This is a new course from AFSC 1H0X1, Aerospace Physiology STRT meeting from February 28 – 4 March 2022. This course is now aligned under AETC/344 TRS from Aerospace Physiology Center of Excellence (AP CoE) at Wright-Patterson, AFB.

SECTION C – SUPPORT MATERIALS

5. Support Materials. A Qualification Training Package (QTP), was developed to support upgrade training into the, "Aircrew Trainer Fundamentals," curriculum. This packages is identified and made available on the official Air Force Electronic Publications website, along with the CFETP. Currently there is one QTP: QTP1H0X1-1.

SECTION D – TRAINING COURSE INDEX

6. Purpose. This section of the CFETP identifies training courses available for the 1H0X1 specialty. For further information on the following courses, contact the OPR as indicated:

OPR: 344 TRS/TRRP
1015 Femoyer St., Building 10900
Lackland AFB, TX 78236
DSN: 473-4731

Website: https://etca.randolph.af.mil

OPR: USAF Safety Center

Kirkland AFB, NM
DSN: 246-1464

Website: U.S. Air Force Safety University (AFCampus)

OPR: 336 TRSS/OSFA
Bldg 1256 Bud Day Building
Fairchild AFB, WA 99011

Website: 336th Training Group - USAF SERE SCHOOL (336TRG)

Table 9. Air Force In-Residence Course and Mandatory training for upgrade.

Course ID	Course Title	Location	OPR
L3AQR1H011 01AC	Aircrew Fundamentals Course (AFC)	Lackland AFB, TX	344 TRS/TRRP
L3ABP1H031 00AB	Aerospace Physiology Apprentice (APA) course	Wright Patterson AFB, OH	344 TRS/TRRP
S-V85-A	Emergency Parachute and Water Survival Training	Fairchild AFB, WA	336 TRSS/OSFA
S-V97-A	Advanced SERE Skills Training	Fairchild AFB, WA	336 TRSS/OSFA
LCAAPHAARMS 00AA	High Altitude Airdrop Mission Support (HAAMS) course	Charleston AFB, SC	344 TRS/TRRP
NVGAIC	USAF NVG Academic Instructor Course	JBSA-Randolph, TX	344 TRS/TRRP
L3ACP1H071 00AB	Aerospace Physiology Craftsman (APC) course	Wright Patterson AFB, OH	344 TRS/TRRP
WCIP059	Mishap Investigation Non-Aviation (MINA)	Kirtland AFB, NM	USAF Safety Center
WCIP05A	Aircraft Mishap Investigation Course (AMIC)	Kirtland AFB, NM	USAF Safety Center
TBD	Aerospace Physiology MAJCOM Functional Manager course	Distance Learning	344 TRS/TRRP
TBD	Aerospace Physiology Flight Chief course	Distance Learning	344 TRS/TRRP

Table 10. Advanced Supplemental courses

Course ID	Course Title	Location	OPR
3J5ACC3S200 002	ACC ISD Principles Course	Dyess AFB, TX	436 TS/ET DSN 461-1689
N/A	CDC Writer	Keesler AFB, MS	2AF.AFCDA.SupportServices@us.af.mil
3J5ACC3S200 001	ACC Instructor Methodology course	Dyess AFB, TX	436 TS/ET DSN 461-1689
J7AZTTXXXX 0D1B	Instructional Systems Designer (ISD)	On-Site (MTT)	82trw.tof.facdmtt@us.af.mil DSN: 736-1587
L3AIRTXXXX 0B2B	Basic Instructor Course (BIC)	JBSA-Lackland AFB, TX	37 TRSS/DOF; Comm: 210-671-5138 DSN: 473-5138
J3AIRTXXXX 0W1A	Technical Writer	Sheppard AFB, TX	82 TRW/TOF DSN: 736-7096/1573/433
L3AIRTXXXX 0D3A	Training Development	JBSA-Lackland AFB, TX	37 TRSS/DOF / Comm: 210-671-5138 DSN: 473-5138
L9AZA1XXXX	Basic Airborne Course (BAC)	Ft. Benning, GA	Air Force Liaison / Comm: 706-545-9374/9733 / Mobile: 706-761-2954/2706 / DSN: 835-9734/9733
LCAZP1Z251 0C0A	Static Line Jumpmaster	Pope AFB, NC	352 SWTS/TM Comm: 910-394-3267
L9AQA1XXXX 0F1A	Military Freefall Parachutist	Ft Bragg, NC/Yuma Proving Ground, AZ	350 SWTS/TSF 350swts.tsf.workflow
L5AZA1XXXX 1J0A	Military Freefall Jumpmaster	Yuma Proving Ground, AZ	350 SWTS/TSF / 350swts.tsf.workflow
S-V87-A	Arctic Survival Training	Eielson AFB, AK	HQ AETC/A3ZS DSN: 487-2770 Comm: (210) 652-2770
S-V84-A	USAF Underwater Egress Training (UET)	Fairchild AFB, WA	336 TRSS/OSFA 657-5422
WCIP05D	Safety Manager Course	Kirtland AFB, NM	Air Force Safety Center afsec.setm@us.af.mil / DSN: 246-1613/4093/9511
WCIP098	Aviation Safety Program Management Course	Kirtland AFB, NM	Air Force Safety Center afsec.setm@us.af.mil / DSN: 246-1613/4093/9511
WCIP05AH	Human Factors Workshop for Safety Professionals	Roadshow Format only	Air Force Safety Center afsec.setm@us.af.mil / DSN: 246-1613/4093/9511

SECTION E – MAJOR COMMAND UNIQUE REQUIREMENTS

None identified.

SECTION F – TECHNICAL REFERENCES

7. **Purpose.** The individual objectives in this STS may use one or more TR's for Courseware Development and/or OJT. Requests to add a new TR can be approved by HAF/A3TH/AFCFM, 1H0X1 upon request. In a case where a TR is updated, revised, replaced or rescinded the AFCFM, 1H0X1 makes a determination in regards to the use of that TR.

Table 11. Technical References list.

Reference Number	Inventory Number	Title	STS Sections
1	ACP 121	*Allied Communications Publication - Communications Instructions - General*	9
2		*AETC Syllabus S-O-B/A-APH*	7
3		*AETC Syllabus S-O-B/A-APH - TRCK J High Altitude Parachutist (HAP Refresher Training Scenario)*	33
4	AFDD 1-1	*Leadership and Force Development*	3
5	AFDD Vol 2	*Leadership*	3
6		*Air Force Enlisted Classification Directory (AFECD)*	1
7	AFH 1	*The Airman Handbook*	3, 5
8	AFH 36-2643	*Air Force Mentoring Program*	3, 16
9	AFI 1-1	*Air Force Standards*	14
10	AFI 10-201	*Force Readiness Reporting*	15
11	AFI 11-301V1	*Aircrew Flight Equipment Program*	18
12	AFI 10-3503	*Personnel Parachute Program*	19, 29
13	AFI 13-207-	*Preventing and Resisting Aircraft Piracy (Hijacking) (FOUO)*	14
14	AFI 33-322	*Records Management and Information Governance Program*	17
15	AFI 38-101	*Manpower And Organization*	4
16	AFI 48-127	*Occupational Noise and Hearing Conservation Program*	2, 3
17	AFI 65-601V1	*Budget Guidance and Procedures*	4
18	AFI 65-601V2	*Budget Management for Operations*	4
19	AFI 91-202	*The US Air Force Mishap Prevention Program*	16
20	AFMAN 10-2503	*Operations in a Chemical, Biological, Radiological, and Nuclear, (CBRN) Environment*	15
21	AFMAN 11-202V1	*Aircrew Training*	17
22	AFMAN 11-202V2	*Aircrew Standardization and Evaluation Program*	8
23	AFMAN 11-202V3	*Flight Operations*	7, 9, 29

24	AFMAN 11-2C-130HV3	*C-130H Operations Procedures*	29
25	AFMAN 11-2C-17V3	*C-17 Operations Procedures*	29
26	AFMAN 11-2T-6V3	*T-6 Operations Procedures*	18
27	AFMAN 11-402	*Aviation and Parachutist Service*	1, 15
28	AFMAN 11-403	*Aerospace Physiological Training Program*	1, 6. 7, 16, 17, 24, 25, 26, 29, 31, 32, 33
29	AFMAN 11-404	*Fighter Aircrew Acceleration Training Program*	16, 27
30	AFMAN 11-409	*High Altitude Airdrop Mission Support Capability Program*	29
31	AFMAN 11-411	*Special Forces Military Free-Fall Operations*	29
32	AFMAN 11-420	*Static Line Parachuting Techniques And Training*	19
33	AFMAN 17-1302-0	*Communications Security (COMSEC) Operations*	14
34	AFMAN 36-2100	*Military Utilization and Classification*	1
35	AFPAM 11-406	*Aerospace Physiology Program Guidance*	1, 2, 7, 17, 21, 24, 25, 26, 31, 32, 33
36	AFPAM 11-417	*Orientation in Aviation*	7, 16
37	AFPAM 11-419	*G-Awareness for Aircrew*	27
38	AFPD 32-70	*Environmental Considerations in Air Force Programs and Activities*	3
39	AFPD 36-21	*Utilization & Classification Military Personnel*	3
40	AFPD 38-1	*Manpower and Organization*	3
41	AFTTP3-2.44	*Multi-Service Tactics, Techniques, and Procedures For Chemical, Biological, Radiological, and Nuclear Reconnaissance And Surveillance*	15
42	AFTTP3-2.46	*Multi-Service Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Passive Defense*	15
43	AFTTP3-42.56	*High Altitude Airdrop Mission Support Operations*	29
44	AFTTP3-42.63	*Special Operations Forces Aerospace and Operational Physiology*	29
45		*APA Education Plan*	6
46		*AFSAS, & Safety University Materials*	16
47	AFVA 91-209	*Air Force Occupational Safety and Health Program*	2
48	AU-2	*Guidelines for Command*	3
49	AU-24	*Concepts For Air Force Leadership*	3
50	29 CFR 1904	*Recording and Reporting Occupational Injuries and Illnesses*	16

51	29 CFR 1960	*Basic Program Elements for Federal Employee Occupational Safety and Health Programs and Related Matters*	16
52	DAFI 31-101	*Integrated Defense (ID)*	14
53	DAFI 36-2406	*Officer and Enlisted Evaluations Systems*	5
54	DAFI 36-2670	*Total Force Development*	3, 5, 15
55	DAFI 36-2710	*Equal Opportunity Program*	16
56	DAFI 91-204	*Safety Investigations and Reports*	3, 16
57	DAFMAN 11-401	*Aviation Management*	1, 15, 29
58	DAFMAN 91-203	*Air Force Occupational Safety, Fire, and Health Standards*	2, 3, 16
59	DoDI 5000.64_DAFI 23-111	*Accountability and Management of DoD Equipment and Other Accountable Property*	3
60	DoD FMR 7000.14-R Volume 12, Chapter 7	*Dod Financial Liability for Government Property Lost, Damaged, Destroyed, or Stolen*	3
61	EO 13423	*Strengthening Federal Environmental, Energy, and Transportation Management*	3
62	FM 3-05.211	*Special Forces Military Free-Fall Operations*	29
63	FM 6-22	*Leader Development*	3
64		*GYRO IPT II O&M-103610-0*	20
65		*Crew Resource Management (Second Edition), Barbar Kanki, Robert Helmreich, and Jose Anca*	16
66		*Ernsting's Aviation Medicine, Rainford/Gradwell (Ed), 5th Edition, 2006*	7
67		*Fatigue In Aviation, Caldwell/Caldwell, 2003*	7
68		*Full Range Leadership Development: Pathways For People, Profit, And Planet, John J. Sosik, And Donil Jung, Taylor And Francis Group, New York, 2010*	3
69		*Fundamentals Of Aerospace Medicine, Davis/Johnson/Stepanek/Fogarty (Ed), 5th Edition, 2008*	7
70		*Handbook of Aerospace and Operational Physiology, Woodrow/Webb, 2016*	7
71	HEADQUARTERS AETC FCIF 18-12-01	*T-6 Special Information Leaflet, Aircrew Operations of Emergency Oxygen System*	18
72		*Leadership and The Art of Mentoring: Tool Kit for The Time Machine, John C. Kunich And Richard I. Lester, 1999*	3
73		*Management of Organizational Behavior: Leading Human Resources, 8th Edition, Paul Hersey, Kenneth H. Blanchard, And Dewey E. Johnson, Nj: Prentice Hall, 2001*	3

74		*Martin-Baker Special Information Leaflet No. 701*	18
75	NFPA 99	*National Fire Protection Association, Chapter 20*	2, 3
76		*POHFT User Guide 19-1708_Releasev2.0*	33
77		*ROBD2 Programming and Technical Guide, Revision 8*	31, 32
78		*ROBD User Manual, Revision 6*	31, 32
79		*Strategic Leadership Primer, Department of Command, Leadership and Management, United States Army War College, 2010*	3
80	T.O. 00-5-1	*AF Technical Order System*	17, 21
81	T.O. 00-5-15	*Air Force Time Compliance Technical Order Process*	17, 21
82	T.O. 00-20-1	*Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures*	8, 25, 26
83	T.O. 00-26-107	*Maintenance Assistance*	26
84	T.O. 00-35D-54	*USAF Deficiency Reporting, Investigation, and Resolution (DRI&R)*	4
85	T.O. 1T-1A-1	*Flight Manual - T-1A*	18.1
86	T.O. 1T-6A-1	*Flight Manual, USAF/USN Series T-6A Aircraft*	18
87	T.O. 1T-6A-1CL-1	*Acceptance/Functional Check Flight Checklist*	18
88	T.O. 1T-38A-1	*Flight Manual USAF Series T-38A Aircraft*	18.3
89	T.O. 1T-38C-1	*Flight Manual USAF Series T-38C Aircraft*	18, 18.3
90	T.O. 13A5-69-2	*Egress Maintenance and Build-Up Manual*	18
91	T.O. 14-1-1	*U.S. Air Force Aircrew Flight Equipment Clothing and Equipment*	18
92	TO 14D1-2-1	*Operation - Personnel Parachutes*	18
93	T.O. 14P3-1-161	*Combined Advanced Technology Enhanced Design "G" Ensemble (Combat Edge Equipment)*	23
94	T.O. 15X-1-1	*Maintenance Instructions - Oxygen Equipment*	22, 23
95	T.O. 15X1-4-2-12	*Operation and Field Maintenance Instructions; Emergency Bail-Out Oxygen Cylinder Assemblies*	23, 29
96	T.O. 15X5-3-6-1	*Operation, Fitting, Inspection and Maintenance Instructions with Illustrated Parts Breakdown For MBU-12/P Pressure-Demand Oxygen Mask*	23
97	T.O. 15X5-4-4-13	*Overhaul Instructions with IPB - Pressure Demand Breathing Oxygen Mask USAF, Type MBU-5/P*	23
98	T.O. 15X6-3-13-3	*Overhaul Instructions - Pressure Demand Oxygen Regulator Type 68/A*	23, 25, 26

99	T.O. 15X6-3-21-13	*Overhaul Instructions; Depot; Diluter Demand Pressure Breathing; Oxygen Regulator*	23, 25, 26
100	T.O. 15X6-4-3-1	*Operation and Maintenance Instructions, Type MA-1 Portable Breathing Oxygen Cylinder and Regulator*	23, 25, 26
101	T.O. 32-1-101	*Use And Care of Hand Tools and Measuring Tools*	2, 3, 22
102	T.O. 33D2-10-67-2	*PBG Oxygen Regulator Field Tester*	23
103	T.O. 42B5-1-2	*Gas Cylinders (Storage Type) Use, Handling, and Maintenance*	2, 23
104	T.O. 42B6-1-1	*Quality Control of Aviator's Breathing Oxygen*	23
105	T.O. 43D8-3-2-6	*Inspection Requirements - Hypobaric Training Chambers*	25, 26
106	T.O. 43D8-3-2-81	*Hypobaric Training Assembly Models 20M331, 20M491, 20M6321, and 10006*	2, 17, 25, 26
107	USASOC 350-2	*Training Airborne Operations*	29