Inter-American Air Forces Academy (IAAFA)

2018 COURSE CATALOG

EFFECTIVE DATE - 1 JANUARY 2017

JBSA-Lackland, Texas

BLANK PAGE

COMMANDANT'S MESSAGE

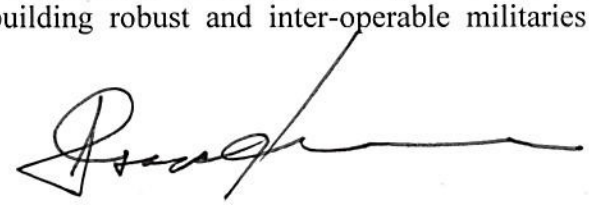
It is my pleasure to present the Inter-American Air Forces Academy (IAAFA) course catalog. This catalog will assist partner nations and U.S. Security Cooperation Offices in selecting and preparing students to attend training at IAAFA.

As part of the United States Air Force's Air Education and Training Command, IAAFA focuses on providing education and training in the subjects detailed in this catalog.

Revisions to this catalog can be found at http://www.37trw.af.mil/units/inter-americanairforcesacademy/index.asp. This catalog supersedes the 2018 catalog and all previous course catalogs. Proposed changes or inquiries may be sent to:

IAAFA.IMSO@us.af.mil
or
Mailing Address:
IAAFA/CCI
2431 Carswell Ave
JBSA-Lackland, TX 78236-5609

It is my desire to ensure the students attending IAAFA courses have pleasant and productive stays. The exchange of cultures and experiences will further strengthen the bonds of friendships, cooperation among participants, building robust and inter-operable militaries to answer global challenges.



ISAAC DAVIDSON, Colonel, USAF
Commandant

BLANK PAGE

TABLE OF CONTENTS

COURSE LISTING

DISTRIBUTION RESTRICTION:
Approved for public release; distribution is unlimited.

BLANK PAGE

GENERAL INFORMATION

IAAFA History

The Inter-American Air Forces Academy (IAAFA) was founded on 15 March 1943, at the request of Peru's Minister of Aeronautics, General Fernando Melgar. The academy trained 11 Peruvian students at Albrook Field, Panama Canal Zone, marking the first US aeronautics training in Latin America.

In the 1940s and 50s, the academy expanded and changed in response to potential conflicts in the Western Hemisphere and the world at large. The student load increased to 400 students per year. In 1952, the commandant established the format for today's IAAFA, emphasizing "hands-on" training, adding officer courses, and creating a "Student Support" section responsible for military and athletic instruction and US cultural awareness. In response to US emphasis in Latin America, the academy changed its name from "Central and South American Air School" to "United States Air Force School for Latin America," to finally "Inter-American Air Forces Academy" in 1966.

On 30 September 1989, IAAFA closed its doors at Albrook AFS, Panama, and moved to Homestead AFB, Florida, reopening 100 days later on 9 January 1990. On 23 September 1992, following almost complete destruction by Hurricane Andrew, IAAFA relocated to Lackland AFB, Texas, once again opening its doors in just under 100 days, on 11 January 1993. Today, IAAFA graduates an average of 800 students a year--quite a step up from the 11 students of 60 years ago.

Student Selection Requirements and Prerequisites

The United States Security Cooperation Office (SCO) in the US Military Groups and host governments screen students selected to attend the academy's courses. **Unless otherwise stated all courses are available for male and female students. In particular for the Company Grade Officer Professional Development (MASL 171032) and Noncommissioned Officer Professional Development (MASL 171033) a minimum of two female students is desired.** SCO training officers **must ensure each student meets all course prerequisites as stated in the course description of this catalog**. Deviations from the minimums requirements established in this catalog must be approved on an individual basis by the IAAFA Commandant or representative. Waivers or deviations to course requirement requested must be submitted in writing through AFSAT/TO, (2021 First Dr. West, Randolph AFB TX 78150-4302) and approved by IAAFA/CC.

The SCO training officer must:

a. Obtain the findings of an official and current physical examination from a designated medical authority for all prospective students certifying the individual is free of infectious diseases or other medical conditions, which would disqualify him/her from general military duty. The prospective trainee should receive all immunizations prescribed by the US Public Health Service as approved by the World Health Organization and must be free of active tuberculosis.

b. Brief each selected student in accordance with AFI 16-105.

c. Due to high security, brief the student that the academy is on a US military installation and the importance of abiding by the base rules and regulations.

d. Accomplish security screening in accordance with AFI 16-105.

e. Arrange transportation in accordance with AFI 16-105.

f. Ensure students read the student guide (Guía Estudiantil) prior to departure.

g. Provide IAAFA/CCI (IAAFA.CCI.StudentAffairs@us.af.mil) with students' arrival information (rank, name, sex, arrival date and time) no later than one week prior to the anticipated arrival dates to plan billeting and transportation requirements.

***NOTE*: Students should arrive in San Antonio no later than three days prior to the class start date, but no earlier.**

h. Students will arrive directly to building 7460 (Student Support) for in-processing.

i. The academy's 24-hour point of contact numbers are listed below. Callers may dial the academy Toll Free line from overseas, but may still be assessed a calling charge by their in-country telephone service.

	From US	**From overseas**
Toll free	1-800-577-5926	*010-1 (800) 577-5926
Commercial phone	(210) 671-4406	010-1 (210) 671-4406
DSN	473-4406	(312) 473-4406
Commercial Fax	(210) 671-4799	010-1 (210) 671-4799
DSN Fax	473-4799	(312) 473-4799

Academic Calendar

The academic calendar is divided into three classes. Below is the schedule of classes:

Class A – January - April
Class B – May - July
Class C – September - December

General IAAFA Clothing Requirements

General clothing requirements are based on the need of each course. The following table identifies the general requirements for students attending courses at IAAFA. Review the course descriptions and specific requirements to find out if the course you are attending will be issuing additional clothing/equipment. See table 1.

COURSE LENGTH			
Officer and Enlisted	**12 Weeks**	**Less than 12 weeks: Graduate at end of class**	**Less than 12 weeks: Do not graduate at end of class**
Light blue short-sleeve shirt w/trousers or equivalent	Students must bring	Students must bring	Students must bring
Service dress (coat & tie) or equivalent	Students must bring	Students must bring	Students must bring
Mess (formal) dress (if not available, then most formal uniform)	Students must bring	Students must bring	Not Required
Battle Dress Utilities (BDU) (See Note *)	Students must bring	Students must bring	Students must bring
Flight Suit	Not Required	Students must bring (See note ***)	Students must bring (See note ***)
Combat Boots (See Note **)	Students must bring	Students must bring	Students must bring
Athletic Attire	Issued by IAAFA	Issued by IAAFA	Issued by IAAFA
Specialized Gear	Issued by IAAFA (If required)	Issued by IAAFA (If required)	Issued by IAAFA (If required)

Table 1, General IAAFA Clothing Requirements

***Note*: *The two courses receiving BDUs are: MASL 173056 – Ground Defense Leadership, and MASL 173067 – Special Reaction Team**

****Some students attending the "Aircraft and Systems Training Courses" listed in page iv of this catalog may receive steal toe boots depending on what course they attend.**

*****Pilots attending Pilot Instrument Procedures Course (PIPC, L3OZR1210640SRA) and Instructor Pilot Instrument Procedures Course (PIPC, L3OZR1210650SRA) can bring BDUs if they do not have flight suits. All other students are required to bring BDUs, fatigues, or equivalent work uniforms.**

Physical Fitness Training (PT)

IAAFA promotes physical fitness training to support the Air Force mission. The goal of the fitness program is to motivate all students to participate in a physical conditioning program that emphasizes fitness. ***Physical fitness training is mandatory for all students.***

Grading System

Grades for courses shall be recorded by the following grades below:

Blocks with Knowledge tests	Blocks with Performance tests
70 – 100 Pass	S = Satisfactory
0 – 69 Fail	U = Unsatisfactory

Awards

(Note: **To be eligible for the following class awards, students must attend/complete a 5-week course or longer.)**

Commandant's Award. This is presented to one officer and one enlisted student for overall academic achievement, leadership, military bearing, and behavior, as well as individual contributions to the academy and sports.

Academic Achievement Award. This is presented to one officer and one enlisted student who maintain the highest overall academic average among all eligible attendees.

Sports Awards. Team and individual (officer, enlisted and/or civilians) awards are presented to members of winning teams participating in the academy's organized sports program.

Outstanding Athlete Award. This is presented to the outstanding athlete, officer, enlisted, and/or civilian on the basis of physical fitness using the Air Force Physical fitness assessment criteria.

Diploma Recognition. The Distinguished Graduate Program – The Distinguished Graduate (98% grade point average or higher) Program will recognize outstanding achievement in all graduating courses throughout the year. The Distinguished Graduate Program may recognize up to, but not to exceed 10 percent of a graduating course. Each selection is based on the whole-person concept rather than on academics or performance skills alone. All others not receiving the Distinguished Graduate award who score 95%-100% overall will graduate as Honor Graduates.

Note**: PME courses will follow the USAF Air University's award guidelines.**

Field Studies Program (FSP)

The FSP is a DoD program designed to provide a balanced understanding of the US culture, society, and way of life to all foreign military trainees attending courses in the US. The academy has a very active FSP. Students will have the opportunity to participate in cultural and educational events and visits to several local and state government institutions. As part of the FSP, IAAFA has an "Amistad Program." This program involves the sponsorship of students by base and local volunteer families and allows students to become familiar with US family and cultural values. Though it is a goal of the program, not all students may be able to obtain "sponsors."

Grievance Procedures

The academy's student grievance procedures are very clear. If any student has a grievance while at IAAFA, they can contact the student support IMSO to make a grievance at the address below. The student support IMSO will investigate the circumstances and report them to the squadron commander. The student will be notified of the resolved matter.

IAAFA/CCI
2431 Carswell Ave
JBSA-Lackland TX 78236-5609

DSN: 473-5593
Commercial: (210) 671-5593

Accompanied Students by Dependents

Dependents are not authorized to accompany students at the academy effective immediately. If the student chooses to bring his/her dependents, the student is responsible for finding lodging accommodations off base. All academy students live on base and lodged in single quarters which are not designed for families. Long academic days and study requirements leave little available time for family matters. IAAFA cannot alter training programs to meet the specific requirements of students with dependents. If the student still desires to bring a spouse/dependent, he/she should consider the many logistical problems they will encounter (i.e., ineligibility for family to use on-base facilities, very long distances and lack of transportation, dependent's inability to conduct daily business due to language differences, isolation/boredom, etc.)

Base Exchange (BX) Privileges

All students are authorized full privileges in the Base Exchange system.

Civilian Clothing

Students may purchase civilian clothing at the local Base Exchange facilities. Temperatures in San Antonio fluctuate depending on the time of year. Light to medium weight clothing is appropriate year-round. A sweater or light jacket is also recommended for spring and autumn months since the temperature can drop from the mid-80s (27° C) to the mid-40s (4° C) in a matter of hours. Heavier clothing is recommended for the winter months; though again, the temperature may reach well above 60° F (16° C) during the day, low norms for winter range between 30° and 60° F (0° C and 16° C). Additionally, heavy rain may be expected during spring and fall months.

Meals

Meals are provided for students at a base dining facility. All enlisted students that do not receive Temporary Living Allowance (TLA) through IAAFA must pay for their meals. All officer students, regardless of funding status, pay for their meals. All other students sign a cashier's log for daily meals and charges, which are reimbursed through the respective FMS, IMET, INL, or 10-04 channels. Students attending courses taught by security forces will need to make a one-time payment of approximately $20-$30 for SRT course and $80-$100 USD for the Ground Defense Skills (GDS) course to cover the cost of Meals-Ready-To-Eat (MRE) during their field training phases. Due to the requirement in advance for MREs, this amount will be collected at the beginning of the class. Students must be prepared for the cash outlay shortly after arrival. This is in addition to the funds referenced in the following paragraph.

Open-Bay-Dormitories

IAAFA provides "Free" dormitory space for students (Males and Females) E-4 and below. In order for a country to take advantage of the use of this dormitory space, a Country Liaison Officer (CLO) is required to accompany, reside, and supervise their students 24/7. Furthermore, the assigned CLO must be of the same gender as the students since they will live in the same quarters (open-bay dorms). NOTE: Before scheduling students, please check with the IAAFA IMSO office for availability of dormitory space.

Funds

Officers and enlisted personnel under IMET sponsorship will receive a living allowance to cover meals and incidental expenses as per DOD 5105.38M, Chapter 10, ***unless otherwise indicated by the International Travel Orders (ITO)***. SCO training officers must ensure all students know their pay, allowances, and obligations to the US government are due prior to their departure. IAW AFI 16-105, International Military Students (IMS) should have in their possession upon entry into the US sufficient funds to cover expenses for a minimum of 30 days. First payment after arrival may take up to 4-weeks (holidays not included).

Baggage

Students are authorized a baggage allowance per DOD 5105.38M, Chapter 10, when travel is paid by IMET. Baggage must accompany the student. For portions of the travel funded by the host

country, the baggage allowance is determined by the host country or current airline limits. ***IAAFA WILL NOT BE RESPONSIBLE FOR EXCESS BAGGAGE***. ***In addition, IAAFA cannot store or mail any excess baggage left behind due to overweight violations.***

Firearms Policy

No students will be permitted to import firearms into the US while on an ITO from the USAF.

Smoking Policy

All work centers, billeting/lodging rooms, and most recreational facilities at JBSA-Lackland are smoke-free. Smoking is allowed in designated areas only.

Mail

Student mail should be addressed as follows:
Rank/Name of Student
PCS #2/IAAFA/Country
2220 Andrews Ave, Unit 362800
JBSA-Lackland TX 78236-3628

Leave and Absence

Students desiring to take leave or drive back to their home countries upon completion of training must have authorization included in their ITOs.

Medical Care

Students will receive medical care IAW AFI 16-105, reimbursable through respective IMET, FMS, INL, or 10-04 channels. Eyeglasses are not provided. If student wears prescription glasses please remind them to bring a second set just in case they lose/break them. **IMPORTANT:** Please refer to "General" section, Student Selection Requirements and Prerequisites, paragraph "a", concerning medical screening of students prior to attendance at IAAFA.

Insurance Policy

Students with a medical insurance policy will provide a copy to the ISM upon arrival at the academy. A copy of the policy is placed in their academy records to ensure prompt medical care is provided and billing is charged to their insurance provider.

Dental Care

Students will only receive **EMERGENCY treatment** dealing with extraction and the relief of pain in accordance with AFI 16-105.

Driver's License
Consult with the Students Affair Section upon arrival at IAAFA

Applicable Directives and Manuals

DoDM 5105.38, Security Assistance Management Manual (SAMM)
AFI 16-103, Managing the Defense English Language Program
AFI 16-105, Joint Security Assistance Training (JSAT) (Inter-Service)
Education and Training Course Announcements, https://etca.randolph.af.mil/
AETCI 36-2215, Training Administration
IAAFA OI 36-2, IAAFA Curriculum Development
IAAFA OI 36-5, Student Conduct and Disciplinary Standards

COURSES

Background

Courses offered are based on historical needs (i.e., courses are kept from year to year), US strategic objectives as described in the US Southern Command Theater Engagement Plan, and customer country requirements. Customer countries can request new courses directly to IAAFA by two means: as honorary directors of the academy, air forces commanders can contact the academy directly, and also through the System of Cooperation Among the American Air Forces' (SICOFAA) Human Resources, A3 Operational Committee. Final decision on development and implementation of new courses occurs during the IAAFA Curriculum Review Advisory.

Human Rights Training

All students receive Human Rights training during their attendance at IAAFA.

Course Design

a. **First Level Courses.** Courses are designed for entry-level training in the respective career field and are designed to complement in-country training programs. They cover the fundamental skills and knowledge to enable the student to perform on the job under the supervision of an experienced individual. Graduates are semi-skilled and can progress to the fully-skilled level by undergoing on-the-job training.

b. **Advanced Courses.** These courses are designed to train individuals in specific systems primarily at the specialist or supervisor level. ***Note:*** Students scheduled to attend these courses must have completed, as a minimum, a basic course in the related field or have at least two years of practical experience in the specialty in addition to meeting all other prerequisites.

Course Numbers

IAAFA uses the AETC course numbering system which includes a 15-digit course number (example is L3AZR1234560SRA). This numbering system will be used throughout the catalog and to identify each course, except PME courses. The last letter in the course number identifies the revision of the course. The MASL number will be used in the course number (ex. L3AZR**123456**0SRA). Use the MASL numbers in all communications between IAAFA and AFSAT.

Graduation Requirements

Students achieving a cumulative grade of 70% or above (80% for pilot courses) will have completed their respective courses successfully and will receive a diploma at a graduation ceremony. Those who do not achieve the minimum of 70% may be returned to their country with a letter of attendance and a letter explaining the failure with recommendations for additional training. Students must attend the graduation banquet to receive a diploma.

BLANK PAGE

PROFESSIONAL MILITARY EDUCATION

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
MASL D171032 **(E-IMET)**	Inter-American Squadron Officer School (ISOS)	8 Weeks
STUDENT LOAD: MIN: 18 MAX: 28		

1. Course Description: This course is the program taught at the USAF Squadron Officer's School (SOS) at Maxwell AFB, which prepares USAF captains for increased leadership responsibilities and is their next step in the Professional Military Education (PME) ladder. The curriculum is developed by the Squadron Officer College under USAF Air University guidelines. Graduates will learn new problem-solving, critical thinking, teambuilding and mentoring techniques in order to lead and motivate personnel to accomplish the mission. They will acquire new tools to further enhance their leadership skills. Course activities will challenge each graduates to apply newly learned principles successfully and to influence group dynamics, cohesion, and effectiveness in a positive manner. ISOS is a course for officers, who will or have completed their own Air Force academic requirements for promotion to the rank of major; or as a required course for promotion, if the academic structure of their country is similar to that of USAF. The course instruction includes administration, extracurricular activities, profession of arms, warfare, leadership, communication, and international security studies.

EXTRACURRICULAR ACTIVITIES: Officers will have the opportunity to executed combined exercises with students from the Inter-American Non-commissioned officers Course to reemphasize the importance of trust between both parties in order to effectively complete a mission. Also, as part of IAAFA's Field Studies Program (FSP), officers will have an opportunity to have a profound cultural immersion on partner nations and in particular the United States.

PROFESSION OF ARMS STUDIES: Officers build upon their understanding of moral and ethical development by applying key concepts of accountability and professionalism to the challenges and opportunities inherent in leadership. Officers will analyze case studies to grasp the unique but vital relationship that binds the military in obedience to its civilian leadership and in defense of the civilian public. They will also integrate personal and professional values consistent with the highest standards of conduct expected of military officers.

WARFARE STUDIES: Emphasis at the primary level is on the application of the military as a national instrument of power (IOP). Officers should understand their Service's roles, missions, distinctive capabilities, core competencies and structures both in the context of history and the joint operations that they may be called on to support. Officers should also have a working knowledge of the capabilities of sister-Services in order to better support the joint warfighting team.

LEADERSHIP AND MANAGEMENT: Focuses on the tactical level to provide tools officers need to build and lead small teams and serve as dynamic followers. The focus at the primary level should be on the dynamics of the interaction between individual leadership skills and group interaction in building successful teams. Instruction should be focused on concepts and

philosophies officers can use to improve individual leadership skills, adjust leadership styles to the situation, accomplish assigned tasks, and employ followers‟ abilities effectively. Opportunities are provided for officers to apply the leadership skills and techniques they have learned.

COMMUNICATION STUDIES: Provides opportunities to apply the principles of effective communication and receive feedback. Special attention is given to those listening, speaking, writing and the interpersonal communication instrumental in team building. Interpersonal communications emphasize maximizing the potential of individual as a part of a team. Officers learn to create and deliver organized, well-reasoned and well-supported arguments via the spoken and written word.

INTERNATIONAL SECURITY STUDIES: It focuses on aspects of national and international security affairs that provide the broad context within which junior officers and their superiors must operate. Special attention is paid to those national and international security topics that most affect an officer's ability to lead and follow, to communicate, and to understand what it really means to be an Airman in today's globalized environment.

2. Course Requirements:

2.1. Eligibility: Officers in the grade of O-3 or equivalent as well as civilians equivalent to the Department of Defense grade of GS-9 and above (consult MILGROUP for grade equivalency). Graduates of in-residence Squadron Officer School, Maxwell AFB, AL (MASL D171003) are not eligible to attend. Student must have basic computer knowledge in order to accomplish writing and briefing assignments as well as electronic readings related to curriculum.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity required for field team building and leadership activities. Student will be expected to be in good physical condition which includes 3 mile runs, sit-ups and pushups. ISOS standards are provided below for reference. Run times below are for the 3 mile distance. Sit-up and Push-up standards are based on "good" performance in the 1-minute Air Force physical fitness test events.

ISOS Fitness Standards (Updated 11 May 07)								
MALE	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Run	28:00		29:30		31:11		34:00	
Sit-Ups	48	46	44	42	39	37	35	32
Push-Ups	49	45	40	35	31	27	25	24
FEMALE	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Run	32:30		34:00		38:00		39:00	

Sit-Ups	44	40	35	33	30	28	26	23
Push-Ups	31	28	26	21	15	13	12	11

2.3. Uniform/Equipment**:** See General Clothing Requirements in General Information section. May bring own running shoes. USAF officers must bring their Service and Mess dress.

3. Other Information: Students are required to make a current job/current events presentation; therefore, it is highly encouraged to bring support material, preferably in electronic form (i.e. maps, history, tourism, current events).

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
Mobile Course MASL: D309054	Inter-American Squadron Officer School (ISOS)	6 Weeks (MTT)
STUDENT LOAD: MIN: 18 MAX: 28		

1. Course Description: This course is the program taught at the USAF Squadron Officer's School (SOS) at Maxwell AFB, which prepares USAF captains for increased leadership responsibilities and is their next step in the Professional Military Education (PME) ladder. The curriculum is developed by the Squadron Officer College under USAF Air University guidelines. Graduates will learn new problem-solving, critical thinking, teambuilding and mentoring techniques in order to lead and motivate personnel to accomplish the mission. They will acquire new tools to further enhance their leadership skills. Course activities will challenge each graduates to apply newly learned principles successfully and to influence group dynamics, cohesion, and effectiveness in a positive manner. ISOS is a course for officers, who will or have completed their own Air Force academic requirements for promotion to the rank of major; or as a required course for promotion, if the academic structure of their country is similar to that of USAF. The course instruction includes administration, extracurricular activities, profession of arms, warfare, leadership, communication, and international security studies.

EXTRACURRICULAR ACTIVITIES: Officers will have the opportunity to executed combined exercises with students from the Inter-American Non-commissioned officers Course to reemphasize the importance of trust between both parties in order to effectively complete a mission. Also, as part of IAAFA's Field Studies Program (FSP), officers will have an opportunity to have a profound cultural immersion on partner nations and in particular the United States.

PROFESSION OF ARMS STUDIES: Officers build upon their understanding of moral and ethical development by applying key concepts of accountability and professionalism to the challenges and opportunities inherent in leadership. Officers will analyze case studies to grasp the unique but vital relationship that binds the military in obedience to its civilian leadership and in defense of the civilian public. They will also integrate personal and professional values consistent with the highest standards of conduct expected of military officers.

WARFARE STUDIES: Emphasis at the primary level is on the application of the military as a national instrument of power (IOP). Officers should understand their Service's roles, missions, distinctive capabilities, core competencies and structures both in the context of history and the joint operations that they may be called on to support. Officers should also have a working knowledge of the capabilities of sister-Services in order to better support the joint warfighting team.

LEADERSHIP AND MANAGEMENT: Focuses on the tactical level to provide tools officers need to build and lead small teams and serve as dynamic followers. The focus at the primary level should be on the dynamics of the interaction between individual leadership skills and group interaction in building successful teams. Instruction should be focused on concepts and philosophies officers can use to improve individual leadership skills, adjust leadership styles to

the situation, accomplish assigned tasks, and employ followers‟ abilities effectively. Opportunities are provided for officers to apply the leadership skills and techniques they have learned.

COMMUNICATION STUDIES: Provides opportunities to apply the principles of effective communication and receive feedback. Special attention is given to those listening, speaking, writing and the interpersonal communication instrumental in team building. Interpersonal communications emphasize maximizing the potential of individual as a part of a team. Officers learn to create and deliver organized, well-reasoned and well-supported arguments via the spoken and written word.

INTERNATIONAL SECURITY STUDIES: It focuses on aspects of national and international security affairs that provide the broad context within which junior officers and their superiors must operate. Special attention is paid to those national and international security topics that most affect an officer's ability to lead and follow, to communicate, and to understand what it really means to be an Airman in today's globalized environment.

2. Course Requirements:

2.1. Eligibility: Officers in the grade of O-3 or equivalent as well as civilians equivalent to the Department of Defense grade of GS-9 and above (consult MILGROUP for grade equivalency). Graduates of in-residence Squadron Officer School, Maxwell AFB, AL (MASL D171003) are not eligible to attend. Student must have basic computer knowledge in order to accomplish writing and briefing assignments as well as electronic readings related to curriculum.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity required for field team building and leadership activities. Student will be expected to be in good physical condition which includes 3 mile runs, sit-ups and pushups. ISOS standards are provided below for reference. Run times below are for the 3 mile distance. Sit-up and Push-up standards are based on "good" performance in the 1-minute Air Force physical fitness test events.

ISOS Fitness Standards (Updated 11 May 07)								
MALE	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Run	28:00		29:30		31:11		34:00	
Sit-Ups	48	46	44	42	39	37	35	32
Push-Ups	49	45	40	35	31	27	25	24
FEMALE	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Run	32:30		34:00		38:00		39:00	
Sit-Ups	44	40	35	33	30	28	26	23

Push-Ups	31	28	26	21	15	13	12	11

2.3. Uniform/Equipment**:** See General Clothing Requirements in General Information section. May bring own running shoes. USAF officers must bring their Service and Mess dress.

3. Other Information: Students are required to make a current job/current events presentation; therefore, it is highly encouraged to bring support material, preferably in electronic form (i.e. maps, history, tourism, current events).

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
MASL D171033 (E-IMET)	Inter-American Noncommissioned Officer Academy (INCOA)	8 Weeks
STUDENT LOAD: MIN: 8 MAX: 14		

1. Course Description: This course is the USAF Noncommissioned Officers Academy (NCOA) course which prepares NCOs for more advanced leadership and management responsibilities. It is the next level of Professional Military Education (PME) designed for those assuming senior NCO leadership positions. The Barnes Center develops the curriculum for the Enlisted PME under the USAF Air University guidelines. Instruction is directed at the improvement of leadership skills. Graduates will learn time and stress management, concepts of human behavior, as well as implementing quality in the workplace. The course instruction includes profession of arms, leadership, and communication.

MILITARY PROFESIONAL- the Military Professional attribute is a combination of lessons between Profession of Arms and Leadership. Military professionals are examples of discipline, integrity and value with a strong understanding of/and commitment to the profession of arms.

OPERATIONAL AIRMAN - The purpose of Operational Airman is to advance the development of a cultural awareness mindset and warrior ethos promoted by the role of the Armed Forces NCOs

UNIT MANAGER- Stress Management, Behavioral Analysis, Team Development, Contemporary problems of supervision, Discipline, Conflict Management, Problem Solving.

MANAGERIAL COMMUNICATION - The foundation for Communication, Communication Process Management, Public Speaking, Interpersonal Communication. Appropriate participation in media and understanding new media.

2. Course Requirements:

2.1. Eligibility: Noncommissioned Officers in the grades equivalent to USAF Staff Sergeant (E-5) through Master Sergeant (E-7). Graduates of USAF NCO Academy (MASL 171007) are not eligible to attend. Civilian equivalents may attend with prior coordination. Familiarization with Microsoft Internet Explorer, Microsoft Word, and PowerPoint and Excel programs is highly recommended.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Must meet minimum physical requirements established by individual country's directives.

2.3. **Uniform**/Equipment**:** See General Clothing Requirements in General Information section. USAF NCOs must bring their Service dress. Mess dress is optional but highly encouraged.

3. Other Information: Students are required to write a country presentation; therefore, it is highly encouraged to bring a notebook/laptop and support material preferably in electronic form (i.e. maps, history, tourism, current events).

4. Intermediate Military Objectives: This course supports the following DOD/TSCP objectives: A2, A3, A4, A6, and C1, USSOUTHCOM/TSCP objectives: 1.2, 2.1, 2.2, 3.1 and 3.2 and the USNORTHCOM/TSCP objectives: M3i, M5a, M5c, and M5e.

COURSE NUMBER	COURSE NAME	LENGTH
Mobile Course MASL: D309034	Inter-American Noncommissioned Officer Academy (INCOA)	6 Weeks (MTT)
STUDENT LOAD: MIN: 8 MAX: 14		

1. Course Description: This course is the USAF Noncommissioned Officers Academy (NCOA) course which prepares NCOs for more advanced leadership and management responsibilities. It is the next level of Professional Military Education (PME) designed for those assuming senior NCO leadership positions. The Barnes Center develops the curriculum for the Enlisted PME under the USAF Air University guidelines. Instruction is directed at the improvement of leadership skills. Graduates will learn time and stress management, concepts of human behavior, as well as implementing quality in the workplace. The course instruction includes profession of arms, leadership, and communication.

MILITARY PROFESIONAL- The Military Professional attribute is a combination of lessons between Profession of Arms and Leadership. Military professionals are examples of discipline, integrity and value with a strong understanding of/and commitment to the profession of arms .

OPERATIONAL AIRMAN - The purpose of Operational Airman is to advance the development of a cultural awareness mindset and warrior ethos promoted by the role of the Armed Forces NCOs

UNIT MANAGER- Stress Management, Behavioral Analysis, Team Development, Contemporary problems of supervision, Discipline, Conflict Management, Problem Solving.

MANAGERIAL COMMUNICATION - The foundation for Communication, Communication Process Management, Public Speaking, Interpersonal Communication. Appropriate participation in media and understanding new media.

2. Course Requirements:

2.1. Eligibility: Noncommissioned Officers in the grades equivalent to USAF Staff Sergeant (E-5) through Master Sergeant (E-7). Graduates of USAF NCO Academy (MASL 171007) are not eligible to attend. Civilian equivalents may attend with prior coordination. Familiarization with Microsoft Internet Explorer, Microsoft Word, PowerPoint and Excel programs is highly recommended.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Must meet minimum physical requirements established by individual country's directives.

2.3. Uniform/Equipment**:** See General Clothing Requirements in General Information section. USAF NCOs must bring their Service dress. Mess dress is optional but highly encouraged.

3. Other Information: Students are required to write a country presentation; therefore, it is highly encouraged to bring a notebook/laptop and support material preferably in electronic form (i.e. maps, history, tourism, current events).

4. Intermediate Military Objectives: This course supports the following DOD/TSCP objectives: A2, A3, A4, A6, and C1, USSOUTHCOM/TSCP objectives: 1.2, 2.1, 2.2, 3.1 and 3.2 and the USNORTHCOM/TSCP objectives: M3i, M5a, M5c, and M5e.

OPERATIONS AND SUPPORT TRAINING COURSES

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D121064) L3OZR1210640SRB	Pilot Instrument Procedures	11 Weeks
STUDENT LOAD: MIN: 4 MAX: 6		

1. Course Description: This course prepares pilots for flying missions under Instrument Meteorological Conditions (IMC) and in accordance with Instrument Flight Rules (IFR) using rules and procedures from both the Federal Aviation Administration (FAA) and the International Civil Aviation Organization (ICAO). Graduates will learn basic instrument flying fundamentals to include how to interpret and use enroute charts, instrument approach plates, navigational aids, and GPS approaches. They will receive four blocks of academic instruction and four blocks of simulator instruction. No actual flight training is involved; therefore, application is taught using an Advanced Aviation Training Device (AATD), which is a computer-based desktop flight simulator. Additionally, graduates will be required to apply these procedures in their respective weapon systems with an experienced instructor or evaluator in order to be fully qualified for instrument operations.

2. Course Requirements:

2.1. Eligibility: This course is designed for ranks of O-1 through O-6, police or civilian equivalent. Students must be current and qualified pilots in their primary aircraft, have flown within the 6 months preceding attendance, and have a minimum of 200 hours of fixed or rotary wing experience after their formal flying course. The candidate must have a minimum of 20 hours of flight under instrument flight rules.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: No hearing or speech impediments.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements, students are encouraged to bring flight suits and flight boots.

3. Other Information: Only electronic manuals are used in the course therefore, students are encouraged to bring a laptop computer if available. Students are also encouraged to bring examples of home field instrument approach charts and maps to share with the class.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D121065) L3OZR1210650SRB	Instructor Pilot Instrument Procedures	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 6		

1. Course Description: This course will reinforce the concepts introduced in the Pilot Instrument Procedures Course (MASL D121064). It includes an additional week of academics to provide a familiarization to instructional procedures and skills necessary to be a flight instructor. Graduates will learn rules and procedures from both the Federal Aviation Administration (FAA) and the International Civil Aviation Organization (ICAO) to prepare for flying missions under Instrument Meteorological Conditions (IMC) and in accordance with Instrument Flight Rules (IFR). They will receive a total of five blocks of academic instruction and three blocks of simulator instruction. Three simulator sorties are designed for the graduate to provide flight instruction to a student from the Pilot Instrument Procedures Course. No actual flight training is involved; therefore, application is taught using an Advanced Aviation Training Device (AATD), which is a computer-based desktop flight simulator. Additionally, graduates will be required to apply these procedures in their respective weapon systems with an experienced instructor or evaluator in order to be fully qualified for instrument operations.

2. Course Requirements:

2.1. Eligibility: This course is designed for ranks of O-1 through O-6, police or civilian equivalent. Students must be current and qualified pilots in their primary aircraft, have flown within the 6 months preceding attendance, and have a minimum of 500 hours as an aircraft commander/pilot in command of fixed or rotary wing. The candidate must have a minimum of 200 hours of flight under instrument flight rules. The candidate must have completed instructor qualification training prior to attendance.

2.2. Training: The student should have already completed an introductory course to instruments and have experience flying under Instrument Flight Rules (IFR).

2.3. Physical/Medical:

2.3.1. Vision: Normal (20/20 with or without glasses).

2.3.2. Speech: No hearing or speech impediments.

2.3. Uniform/Equipment: In addition to the uniform requirements listed in the General Clothing Requirements, students are encouraged to bring flight suits and flight boots.

3. Other Information: Only electronic manuals are used in the course therefore, students are encouraged to bring a laptop computer if available. Students are also encouraged to bring examples of home field instrument approach charts and maps to share with the class.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D121066) L30ZR1210660SRB	Search and Rescue Planning	4 Weeks
STUDENT LOAD: MIN: 6 MAX: 12		

1. Course Description: The instructional design for this course is grouped paced. This course is an introduction to Search and Rescue Planning (SARP) procedures and Rescue Coordination Center (RCC) operations and is designed for enlisted or officers who perform in the capacity of SARP coordination and operations or related duties. The course will give the student a working knowledge in concepts on how to organize and plan SAR center operations and mission planning. Class sessions include scenario executions which give the student practical experience in a simulated SAR environment. The course instruction includes SAR System and Organization, Search Planning, and Practical Exercises to SAR Problems.

BLOCK I – SAR SYSTEM AND ORGANIZATION
This block includes course orientation, the SAR system, SAR organizations, agencies and resources, communications, awareness and initial actions, documentation, and SAR satellite systems.

BLOCK II – SEARCH PLANNING
This block prepares the student for the factors involved in a SAR incident includes the facilities that are available to the search planner and the mathematical process involved in calculating a marine SAR operation. It also lays the foundation in planning and preparing for the next block of SAR applications.

BLOCK III – PRACTICAL EXERCISES TO SAR PROBLEMS
This block is an application of the SAR studies and theory learned in the first two blocks. It also prepares the students for SAR planning and operations using the new technology "SAROPS". Multiple exercises are run to give the students many scenarios and practice in running and controlling a SAR operation.

2. Course Requirements:

2.1. Eligibility: Open to all officers, enlisted, and/or civilians that perform or plan to perform SAR planning related duties.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Speech: No hearing or speech impediments or aides.

2.3. Uniform/Equipment: In addition to the uniform requirements listed in the General Clothing Requirements, students are encouraged to bring flight suits and flight boots.

3. Intermediate Military Objectives: This course supports the following

USSOUTHCOM/TCP objectives: 2, 4, 6, 7, 8, 9, 10, 11, 13 and USNORTHCOM/TCP objectives: 2.5, 2.7, 4.2, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D126086) L3AQR1260860SRA	Dynamics of Terrorism	2 Weeks
STUDENT LOAD: MIN: 10 MAX: 40		

1. Course Description: This course is designed for all members of the armed forces and their civilian counterparts, regardless of specialty and or rank. Graduates will learn the basic concepts of anti-terrorism. They will receive training in Human Rights, Introduction to Terrorism, Terrorist Operations, Detecting Terrorist Surveillance, Assessing Terrorist Threats, Individual Protective Measures, Hostage Survival, and Vulnerability Assessment. Students will also learn the purpose of Vulnerability Assessment, the functions of the assessment, the process one must go through in order to conduct an assessment, and how to advise installation commanders on antiterrorism matters.

BLOCK I – FUNDAMENTALS OF TERRORISM
The block includes an orientation, and training on the following subjects: Human Rights, Introduction to Terrorism, Terrorist Operations, Detecting Terrorist Surveillance, Assessing the Threat, Individual Protective Measures, Security While Traveling, Vehicle Security, Residential Security, Active Shooter/Workplace Violence, Hostage Survival, Escape/Rescue/Release, and Vulnerability Assessments.

2. Course Requirements:

2.1 Eligibility: Personnel may be from any specialty, military, police, or civilian no higher than the rank of O-6 or equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: No speech or hearing impediments.

2.2.3. Physical: Normal dexterity.

2.3. Uniform/Equipment**:** See general clothing requirements. All required specialized gear will be provided.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 5, 6, 7, 8, 12 and USNORTHCOM/TCP objectives: 1.4, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D152054) L3AZR1520540SRC	International Logistics	6 Weeks
STUDENT LOAD: MIN: 10 MAX: 19		

1. Course Description: The International Logistics course prepares students to provide logistical support to their units. This course is designed for officers, NCOs and/or civilian personnel assigned to, or projected for assignment to logistic management leadership positions. Also, this course provides the foundation to understand the Foreign Military Sales (FMS) process and how it works parallel with the U.S. government and DoD structure. The course includes the following blocks of instruction: Introduction to Logistics, Materiel Management Publications, Security Assistance and Security Cooperation, and Foreign Military Sales.

BLOCK I - INTRODUCTION TO LOGISTICS
This block provides the principles and concepts for successful logistics management and general information on several support organizations that contribute to the overall logistics structure of an operating base. It also covers the role of supply chain management and its importance on mission accomplishment. This block covers in detail some materiel management concepts such as the processes for determining requirements, establishing appropriate stock levels, focusing on aspects of inventory management and logistic planning.

BLOCK II – MATERIEL MANAGEMENT PUBLICATIONS
This block of instruction provides an introduction to materiel management publications used to research data before requisitioning assets. Students learn to cross-reference part numbers to national stock numbers and search information used in materiel management operations within and between the United States Military Services, other DOD activities, federal and civil agencies, and foreign governments. To reinforce the lectures and reading material, a number of practical exercises are woven into the curriculum. This block also explains the purpose of Military Standard Requisition Issue Procedures (MILSTRIP) and how the Uniform Materiel Movement and Issue Priority System (UMMIPS) applies between the US military branches and Foreign Nations. It also discusses the repair cycle process and the selection criteria for the repair cycle assets. Lastly, students delve into the purpose and use of technical orders (TOs) and culminate the block with TO practical exercises.

BLOCK III - SECURITY ASSISTANCE AND SECURITY COOPERATION
The course aims to increase the students understanding of the management of U.S. security cooperation and security assistance resources and enhance communications between purchaser/recipient country security assistance agencies and U.S. supporting agencies, thereby enhancing the overall efficiency of security assistance management; and to display the role of security assistance within the context of a civilian controlled military. Also, the block explains how the US legislation is welded into a coherent operational foreign policy program and the roles and responsibilities of the Security Cooperation Organization (SCO) and its contribution to the Security Cooperation (SC) and Security Assistance (SA) mission.

BLOCK IV - FOREIGN MILITARY SALES
This block presents major aspects of the Foreign Military Sales (FMS) program and the management concerns of purchaser and recipient countries. The block explains aspects relating to the FMS process to include the Security Cooperation Information Portal (SCIP). It Covers and explains the different categories of materials and/or services which can be purchased from the US. This block covers the different reports of discrepancies (ROD) and its requisites to prepare the report. Students will learn how to prepare a letter of request (LOR) and understand the Military Standard Requisitioning and Issue Procedures (MILSTRIP) for FMS codes related to the FMS process. Lastly, it outlines the purpose and management of the SCIP system, and covers many aspects of its use in managing the purchase of FMS materiel. Students will utilize the SCIP training system in order to gain hands-on experience.

2. Course Requirements:

2.1. Eligibility: Officers in the grades of O-1 through O-6, enlisted personnel in the grades of E-6 through E-9, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal manual dexterity.

2.3. Uniform/Equipment**:** See general clothing requirements. May need steel toe boots.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D152055) L3AZR1520550SRC	Materiel Management	6 Weeks
STUDENT LOAD: MIN: 6 MAX: 16		

1. Course Description: This course is designed for officers, NCOs, Airmen and/or civilian personnel working in base supply or supply-related functions to prepare supply specialist and first line supervisors to assume entry-level supply responsibilities. Graduates will learn how to set up a warehouse and how to operate materiel handling equipment to include training on forklift safety. The course instruction includes Fundamentals, Materiel Management, Warehouse Operations and Inventory Management.

BLOCK I – FUNDAMENTALS
This block of instruction begins with an introduction to Materiel Management, which covers the duties expected to be performed in the Materiel Management AFSC. This is followed by organizational logistics structure, which focuses on the National level, Intermediate level and Base level. Next is property accountability, which explains basic guidance and responsibilities for managing government property under their control. Supply Publications provides an introduction to publications used to research data in PUBLOG FLIS before requisitioning assets. Students will learn to cross-reference part numbers to national stock numbers and search information pertaining to commercial/vendor addresses and codes related to commercial entities. Technical Orders (TO) provide instructions for operating, maintaining, inspecting, modifying, and managing equipment and systems. Students will learn to use these TOs to research for replacement parts, next higher assemblies in support of these equipment and systems.

BLOCK II – MATERIEL MANAGEMENT
This block of instruction covers all aspects of the logistics system, to include the order process from customer to base supply and from base supply to depots. Stock control provides an introduction to stock levels and economic order quantity principals. Students learn the process of inventorying materiel, analyze the USAF Repair Cycle Process, receiving/turn-ins, inspection principals and document control fundamentals.

BLOCK III - WAREHOUSE OPERATIONS
This block of instruction focuses on the processes and elements of a supply organization that physically deals with property from the time it enters the supply system until it is issued to another organization. This block also covers processes, which ensure that the property is maintained in serviceable condition while in stock and readily available for issue to the correct user, and at the right time and place. The areas of instruction covered are Storage principals, Surveillance Program, Property Storage, Location System, Hazardous Material and Materiel Handling equipment to include forklift familiarization.

BLOCK IV – INVENTORY MANAGEMENT
This block provides students the opportunity to implement all subjects learned throughout the previous blocks of instruction. Students create a layout of a storage facility and apply all warehousing principles learned to determine the appropriate warehouse location, assign and

establish a locator system. Students will also establish an automated inventory management database.

2. Course Requirements:

2.1. Eligibility: Newly commissioned officers in the grade of O-1 through O-4, enlisted personnel in the grade of E-1 through E-6, police, or civilian equivalent who perform or will perform inventory management and warehouse functions.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Speech: No hearing or speech impediments.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** See general clothing requirements.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D162030) L3AJR1620300SRB	On-the-Job Training (OJT) Administration	4 Weeks
STUDENT LOAD: MIN: 8 MAX: 14		

1. Course Description: This course is designed for middle to upper-level training managers and supervisors, NCO's, officers, and civilians, who are directly involved with training program management activities and functions. The concepts taught in this course are easily adaptable to the training program administration of any professional specialty. Graduates will learn how to effectively develop, manage, and evaluate On-the-Job Training (OJT) programs. Students will also learn fundamental OJT program standardization concepts and documentation procedures. The course includes the following blocks of instruction: OJT Organization and Training Plan Development and Conducting, Evaluating, and Documenting Training.

BLOCK I - OJT ORGANIZATION AND TRAINING PLAN DEVELOPMENT
This block covers the OJT program organizational structure and training plan development. Lessons include: OJT program structure, program responsibilities of the training manager, supervisor, trainer, and trainee, specialty training plan development, work center master training plan development, and training record documentation procedures. Instruction also includes familiarization of electronic training systems.

BLOCK II – CONDUCTING, EVALUATING, AND DOCUMENTING TRAINING
This block focuses on the execution of OJT program processes and responsibilities. Lessons include: training process initiation, training needs determination, capability and resource determination, and the development and presentation of the Air Force Training Course. Instruction also includes a familiarization of training program evaluation procedures and statistical data reporting.

2. Course Requirements:

2.1 Eligibility: Open to military members with the rank of E-4 and above, but no higher than the rank of O-4, and police or civilians equivalent whom execute, administer, and/or manage OJT training program activities and functions.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment: No special uniforms or equipment are required other than those identified in the General Clothing Requirements.

3. Other Information: Students must possess a basic familiarization with the Microsoft Word, Excel, and PowerPoint programs in order to complete the practical exercises required for successful course completion. Students are encouraged to bring examples of existing training program processes and products to share with the class.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D166041) L3AZR1660410SRC	Basic Instructor Course (BIC)	6 Weeks
STUDENT LOAD: MIN: 6 MAX: 14		

1. Course Description: This course is designed for officers, NCOs and civilians supporting technical training missions. Students learn US Air Force technical training concepts and techniques to deliver quality instruction. They receive training on how to conduct classroom instruction, perform student counseling as well as how to develop course curriculum. This course also includes extensive practical exercises to improve the student's presentation skills. The course consists of the following blocks of instruction: Fundamentals of Instruction, Instructional Development and Presentations.

BLOCK I - FUNDAMENTALS OF INSTRUCTION
This block sets the foundation for technical instruction. Lessons include: roles of an instructor, qualities of an instructor, the communicative process, group dynamics, counseling theory, multimedia use, and instructional methods. Students learn and practice effective questioning techniques. Classroom scenarios enhance instructor counseling techniques. Lesson plan outlining procedures are reviewed and discussed. The students prepare their first presentation to practice the concepts covered in this block of instruction.

BLOCK II – INSTRUCTIONAL DEVELOPMENT
This block focuses on the responsibilities of key personnel in a technical training organization and the instructional system development (ISD) process. Lessons include: Test administration, ISD process, and lesson plan development. Students learn how to develop and maintain a quality course using the ISD process. Lesson plan development is thoroughly discussed and practiced. Test administration, control and security procedures are covered in detail. Students prepare and present a lesson plan in preparation for the lectures performed in block three.

BLOCK III – PRESENTATIONS
Students apply the concepts learned during previous blocks of instruction in a classroom setting. They execute instructor roles, responsibilities and instructional methods unassisted. Students prepare and present three presentations using two delivery methods: two lectures and one demonstration/performance. The presentations will prove essential for student's future success as instructor.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-5, police, or civilians equivalent with at least two years advanced technical area knowledge or experience within their respective specialty or field.

NOTE: Pilots requiring preparation for instrument pilot instructor duties should be enrolled in the Instructor Pilot Instrument Procedures course, MASL D121065.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity. Familiarization with Microsoft Word, Excel, and PowerPoint is required in order to complete the practical exercises successfully. It is encouraged to bring examples of existing lesson plans to use in the class.

2.3. Uniform/Equipment: No special uniforms or equipment are required other than those mentioned in the General Clothing Requirements.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

- *Note: This course was previously called Technical Training Instructor.*

COURSE NUMBER	COURSE NAME	LENGTH
L3AQR1720230SRB (MASL D172023)	Intelligence, Surveillance and Reconnaissance (ISR) Fundamentals	5 Weeks
STUDENT LOAD: MIN: 6 MAX: 12		

1. Course Description: This course is designed for officers, enlisted, National Police and civilian equivalent requiring an understanding of the fundamentals of Intelligence, Surveillance, and Reconnaissance (ISR). Graduates will learn basic principles of intelligence, analysis, critical thinking, Intelligence Preparation of the Operational Environment (IPOE), ISR concepts and roles, and targeting fundamentals. They will receive training in plotting coordinate systems and presenting intelligence briefings. The course instruction includes Introduction to Intelligence and Intelligence, Surveillance and Reconnaissance (ISR) Fundamentals.

Orientation
Instructors indoctrinate students to course outline, local policies, and military chain of command, academic and work environment expectations. Medical procedures, extracurricular and cultural programs available are also explained to students.

BLOCK I – INTRODUCTION TO INTELLIGENCE
This block introduces the students to critical thinking and analytical methodologies. The importance of security is also addressed to include information protection and Operations Security (OPSEC). Students will learn about different types of intelligence disciplines (the –INTs), the roles of intelligence personnel in the –INT world, the roles of National Agencies and Department of Defense related to the –INTs and Intelligence as a whole. The IPOE process is also addressed to depict its role in identifying potential centers of gravity and courses of action. This block closes with students learning to use geospatial mapping tools to plot different coordinate systems on maps.

BLOCK II – INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE (ISR) FUNDAMENTALS
This block addresses the core concepts of the ISR process and its role in an operational environment. Students will be introduced to Collection and Request for Information (RFI) Management fundamentals as well as Priority Intelligence Requirement (PIRs) considerations. To highlight the ISR process phase of dissemination, students will build and present current intelligence briefings to enable them to gain an analytical perspective of current world issues and to employ briefing techniques specified in classroom instruction. Students will also learn about the Air Operations Center (AOC) structure and the intelligence personnel's role within this organization. Targeting fundamentals concepts will also be discussed to include deliberate and dynamic targeting. The block ends with a consideration of legal implications in war through discussion of the Law of Armed Conflict (LOAC) and Rules Of Engagement (ROE).

2. Course Requirements:

2.1. Eligibility: Open to military members no higher than the rank of O-5, police, or civilian equivalent. Attendees should be assigned to an intelligence unit position or have an additional duty of Intelligence Officer, NCO or equivalent. Some basic computer skills, particularly PowerPoint, are highly desirable.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment: See general clothing requirements.

3. Other Information: Members are encouraged to bring situations from their countries to discuss in class.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.7, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5.

Note: *This course was previously called* *Introductory Air Intelligence*.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D173056) L3AZR1730560SRB	Ground Defense Leadership Course	6 Weeks
STUDENT LOAD: MIN: 26 MAX: 44		

1. Course Description: This course is designed for security forces personnel of any branch charged to protect key resources to sustain air operations during peacetime or contingencies. Graduates will learn effective means of operating in any environment to extend defense beyond the boundaries of their installations. The topics that will be covered include troop leading procedures, warning/operations orders, defense command and control, weapons training, land navigation, tactical movement under direct fire, patrolling and tactical vehicle deployment. They will also participate in a field training exercises, which will simulate patrol and urban defense. The course instruction includes Defender Leadership and Defender Skills operations.

BLOCK I – DEFENDER LEADERSHIP
Training includes Troop Leading Procedures, Defense Command and Control and Field Considerations.

BLOCK II – DEFENDER SKILLS
Training includes Weapons Fundamentals, Land Navigation, Tactical Movement, Patrolling, Convoy Operations and Built-Up Area Search and Clear Operations (BUASC).

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-3, police, or civilian equivalent. Personnel not in a security forces or police specialty code may attend with prior coordination.

2.2. Physical/Medical: Top physical condition, NO injuries that could prevent member from training.

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.2.4. The following is a table of minimum physical requirement on the first day of training:

MALE

Age	1-Minute Push-Ups	1-Minute Sit-Ups	1.5-Mile Run Time
30 and under	33	42	13:36
30-39	27	39	14:00
40-49	21	34	14:52

FEMALE

Age	1-Minute Push-Ups	1-Minute Sit-Ups	1.5-Mile Run Time
30 and under	18	38	16:22
30-39	14	29	16:57
40-49	11	24	18:14

***Note: It is imperative to consider that student's ability to meet minimum physical fitness requirements represent for which they represent their ability to safely complete the physical requirements of the course. Country managers should ensure that personnel selected to attend this course are evaluated on their physical condition prior to course attendance using the standards listed above.**

2.3. Uniform/Equipment: Uniform: See general clothing requirements. All required specialized gear will be provided.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D173067) L3AZR1730670SRB	Special Reaction Team	6 Weeks
STUDENT LOAD: MIN: 12 MAX: 25		

1. Course Description:
This course is designed for mid-level security forces members of any branch charged to manage high-risk situations. After completing this course, graduates will have learned SRT tactics to include how to respond to high risk incidents, familiarization with two different weapons systems focusing on safety and proper weapon handling techniques. Also, they will have learned basic window entry techniques, vehicle and aircraft assault interdiction techniques, and "active-shooter" response procedures. All this training will enable members to support the war against terror as well as counter-narcotics operation, peacekeeping efforts and natural disaster response. The course instruction includes SRT Fundamentals and SRT Tactics.

BLOCK I – SRT FUNDAMENTALS
This block includes training in the following areas: Human Rights, Physical Fitness, SRT Concepts of Operations, Introduction to Terrorism, SRT Use of Force Training, Pre-Planning and Tactical Considerations, and Intelligence Gathering.

BLOCK II – SRT TACTICS
This block includes training in the following areas: Physical Apprehension and Restraint (PART)/Weapons Retention Techniques, Handgun, Rifle, Vehicle Assault, Cylindrical Vehicle Assault, Exterior Movement, Containment & Entry, Building Clearing & Close Quarter Combat, Active Shooter, and a Final Training Exercise.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-3, police, or civilian equivalent. Personnel not in a security forces or police specialty code may attend with prior coordination.

2.2. Physical/Medical: Top physical condition, NO injuries that could prevent member from training.

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.2.4. The following is a table of minimum physical requirement on the first day of training:

MALE

Age	1-Minute Push-Ups	1-Minute Sit-Ups	1.5-Mile Run Time
30 and under	33	42	13:36
30-39	27	39	14:00
40-49	21	34	14:52

FEMALE

Age	1-Minute Push-Ups	1-Minute Sit-Ups	1.5-Mile Run Time
30 and under	18	38	16:22
30-39	14	29	16:57
40-49	11	24	18:14

***Note: It is imperative to consider that student's ability to meet minimum physical fitness requirements represent for which they represent their ability to safely complete the physical requirements of the course. Country managers should ensure that personnel selected to attend this course are evaluated on their physical condition prior to course attendance using the standards listed above.**

2.3. Uniform/Equipment: Uniform: See general clothing requirements. All required specialized gear will be provided.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5.

- **Note:** To get the most out of the Special Reaction Team (SRT) course (MASL 173067) and have a student that can better meet the challenging demands of the career field , we ***highly encourage*** attending the Anti-terrorism (AT) level I and II (MASLs 126013 and 126014) offered just before the SRT course. Elements of AT level I and II are used and applied during the SRT course. The countries not only save funds but also get three courses during one visit to IAAFA.

COURSE NUMBER	COURSE NAME	LENGTH
L3AZR1760060SRA (MASL D176006) (E-IMET)	Rule of Law and Disciplined Military Operations	1 Week
STUDENT LOAD: MIN: 8 MAX: 20		

1. Course Description: This course is designed for international officers and NCOs of any military force. Graduates will learn the basics of the international rules of law and their impact on human rights, including how these international standards fit into the planning of military operations. This information is vital to any country that may participate in international peacekeeping missions sponsored by the United Nations. The Defense Institute of International Legal Studies, a field activity of Defense Security Cooperation Agency, teaches this course at IAAFA.

2. Course Requirements:

2.1. Eligibility: Open to military members no higher than the rank of O-6, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal manual dexterity.

2.3. Uniform/Equipment: See General Clothing Requirements in the General Information section. Normally, this class does not require mess dress since it is held after end-of-training cycle (no graduation banquet).

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8 and USNORTHCOM/TCP objectives: 2.2, 2.3, 2.7, 3.1, 3.3, 3.5, 4.2, 4.3.

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D179108) L3AZR179108SRA	Cyber Security	2 Weeks
STUDENT LOAD: MIN: 4 MAX: 10		

1. Course Description: This course is designed for students to develop cyber security skills and knowledge. Graduates will learn to identify user problems, such as data access needs, security violations, and changes in programming. They will receive training in strengthening digital documents' security, network security, emergency measures, plus establish policy, procedures, and necessary system tests or trials. Additional areas of training focus on how to create training programs for users and foster security consciousness to ensure system integrity and improve server/net efficiency. Finally, graduates will learn to supervise data use and regulate its access in order to safeguard file information. The course instruction includes Calculating the Risk, Infrastructure and Connectivity, Network Protection, Threats and Vulnerabilities, Identity and Access Control, Educating and Protecting the User, Operating System and Application of Security, Cryptography Fundamentals, Cryptography Implementation, Physical Security and Hardware-based, Network Vulnerability and Security, Wireless Security, Security-related Directives and Procedures.

BLOCK I – CYBER SECURITY
The student will learn about cyber security issue, problems, network security, policies and procedures for implementing a cyber-security program.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-5, police, or civilians equivalent who work with information technology systems. Basic personal computer knowledge is highly desirable, but not necessary.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment: See general clothing requirements.

3. Other Information: Members are encouraged to bring situations from their countries to discuss in class.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.6, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5.

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D179113) L3AZR179113SRA	Cyber Networks	3 Weeks
STUDENT LOAD: MIN: 4 MAX: 10		

1. Course Description: This course is designed for students to develop cyber networks' skills and knowledge. Graduates will learn to identify computer and network components and how they interact; network operational concepts, router and switch operations, wireless networking and Wide Area Network (WAN) technologies. They will also receive training in information regarding server infrastructure and configuration. The course instructions includes Network Fundamentals, Network Operation and Configuration, Wireless and Wide Area Networks (WAN) and Network Server Infrastructure and Services.

BLOCK I – CYBER NETWORKS
The student will be introduced to network fundamentals, network operation and configuration, wireless and wide area networks, and network server infrastructure.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-5, police, or civilians equivalent who work with information technology systems. Basic personal computer knowledge is highly desirable, but not necessary.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment: See general clothing requirements.

3. Other Information: Members are encouraged to bring situations from their countries to discuss in class.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12 and USNORTHCOM/TCP objectives: 1.4, 1.6, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5.

BLANK PAGE

AIRCRAFT AND SYSTEMS TRAINING COURSES

BLANK PAGE

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D133060) L3AQR1330600SRB	Avionics Communication/Navigation Technician	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This specialized course designed to provide students with training on inspection and installation of avionics communications/navigation equipment, focusing on flightline operations. Graduates will learn to identify theory of operation. They will receive hands-on training on minimum performance tests on the aircraft. The course instruction includes General Comm/Nav Avionics Maintenance Practices, Basic Comm/Nav Theory, ADF-60, VIR-30 VOR/ILS Navigation System, DME-40, AN/ARC 186-2 VHF Radio, AIC-18 Intercommunications System, and Wire Harness Construction.

BLOCK I – GENERAL COM/NAV MAINTENANCE PRACTICES
The students will receive an orientation and Human Rights briefing. They will also receive instruction in safety, Technical Orders (T.O.), the consolidated tool kit, aircraft maintenance form AFTO 781, and technician training documentation.

BLOCK II – BASIC COMM/NAV THEORY
Students will learn about basic transmission and reception principles in communication systems.

BLOCK III – COLLINS ADF-60 AUTOMATIC DIRECTION FINDING SYSTEM
The students learn theory of operation, component characteristics, system block diagrams, and schematics for the antenna, receiver and instrumentation. During the laboratory portion of instruction, students learn the requirements for operational performance checks and aircraft familiarization. The following test equipment is used: ADF test set, ADF receiver, 479S-6 VOR/ILS signal generator, audio output meter TS-585, digital multimeter, and oscilloscope.

BLOCK IV – COLLINS VIR-30 VOR/ILS NAVIGATION SYSTEM
The students learn system theory of operation and characteristics, component and system block diagrams, as well as schematics, which includes: ground transmitter, receiver and detailed receiver. During operational performance checks, students are familiarized with the operation of test equipment, appropriate safety measures and proper maintenance procedures. Test equipment used during this course includes VOR/ILS test set, VIR-30 receiver, 479S-6 VOR/ILS signal generator, audio output meter TS-585, digital multimeter, and oscilloscope.

BLOCK V - DME-40 NAVIGATION SYSTEM
Students learn system theory of operation and characteristics, component and system block diagrams that include: receiver-transmitter, 339F-12 indicator, analog distance circuit and receiver-transmitter special circuits. During operational performance checks students are familiarized with the operation of test equipment, appropriate safety measures and proper maintenance procedures. Test equipment used during the course includes DME test bench, DME-

40 receiver-transmitter, signal generator, audio output meter TS-585, digital multi-meter, and oscilloscope.

BLOCK VI - AN/ARC 186 VHF RADIO
Block V provides the basis for understanding block diagrams, identification of major components, and functional operation of the AN/ARC-186. Students are provided practical training on minimum performance checks of the ARC-186 VHF transceiver using various test equipment. At the completion of this block, the student will know the modes of operation and be able to conduct performance tests and analyze equipment failure at the aircraft.

BLOCK VII - AIC-18 INTERPHONE SYSTEM
Students learn the operation, characteristics and the functions of all major components and related circuits. During operational performance checks and alignment, students are familiarized with the operation of test equipment, appropriate safety measures and proper maintenance procedures. Test equipment used during this course includes, AIC-18 intercommunications test panel, AN/PSM-37 multi-meter, fluke digital voltmeter, and power supply.

BLOCK VIII – WIRE HARNESS CONSTRUCTION
Students will become familiarized with soldering processes. They will also learn to fabricate a BNC connector cable and a communication connector and cable.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent and have successfully completed the Electronic Fundamentals, MASL D131119, or equivalent electronic fundamentals course.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** Battle Dress Uniform or utility uniforms. Safety toe boots and non-conductive plastic frames for eyeglasses are mandatory for students who wear glasses.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D141243) L3OZR1412430SRC	Aircraft Maintenance Officer	10 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is designed for officers in aircraft maintenance leadership and management positions. Graduates will learn maintenance management skills which help develop, prepare, execute, and sustain maintenance activities. They will also receive training in the understanding of the organizational structures and management techniques used in the planning and developing of functional areas within a maintenance organization. The course instruction includes General Subjects, Operational Programs, Continuous Improvement Process, USAF Technical Order System and Logistic System, Maintenance Organization Structure and Responsibilities, Aircraft Maintenance Functions, Maintenance Management Metrics, and Aircraft Generation, Execution and Planning.

BLOCK I – GENERAL SUBJECTS
The students will be introduced to the principles of the Air Force Safety Programs. Students will also understand the fundamentals of the following programs Air Force Occupational Safety and Health (AFOSH), and Accident Prevention Program.

BLOCK II – OPERATIONAL PROGRAMS
The student will learn the Operational Risk Management (ORM) and Quality Assurance Principles.

BLOCK III – CONTINUOUS PROCESS IMPROVEMENT
Students will be introduced to the Continuous Process Improvement concept and Team Fundamentals. Students will learn to properly use the Process Improvement tools, Process Improvement techniques, and AFSO 21 Problem Solving Process. Students will also develop internal procedures on a selected subject and implement a self inspection program.

BLOCK IV – USAF TECHNICAL ORDER SYSTEM AND LOGISTIC SYSTEM
The students will be introduced to the Technical Order System; students will also learn the use, changes and updating technical data, developing a technical order library and responsibilities in maintaining all applicable technical data. Aircraft Documentation process and procedures will also be introduced as well as the logistics and supply system.

BLOCK V – MAINTENANCE ORGANIZATION STRUCTURE AND RESPONSIBILITIES
The students will be introduced to Supervisory Management, Flightline Organization and Leadership, Common Maintenance Practices and Terms, Flightline Maintenance Processes.

BLOCK VI – AIRCRAFT MAINTENANCE FUNCTIONS
Students will learn about Mission Generation Requirements, Maintenance Planning, Aircraft Generation Planning, and Aircraft Generation Execution. These concepts will be put into practice later in the course.

BLOCK VII – MAINTENANCE MANAGEMENT METRICS
Students will learn about Aircraft Reporting Requirements, Statistics, Maintenance Indicators, and Reliability-Centered Maintenance (RCM).

BLOCK VII – AIRCRAFT GENERATION, EXECUTION AND PLANNING
Students will learn the development of Aircraft Generation Sorties, develop and execute an Aircraft Scheduling Process, identify and manage Aircraft Maintenance Status, finally students are exposed to a variety of simulated maintenance and scheduling problem situations and virtual simulation of an operational maintenance unit to further prepare you for them to work~~ing~~ in the maintenance environment. Students are evaluated individually and as a team on the decision making techniques, communication and coordination to sustain the aircraft support capability during aircraft generation sorties (missions).

2. Course Requirements:

2.1 Eligibility: Officers in the grades of O-1 through O-6, police, or civilian equivalent.
Basic maintenance knowledge is highly desirable.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following the utility or work uniform: BDUs, fatigues, coveralls. Do not need steel toe boots.

3. Other Information: Students are encouraged to bring material in reference to a problem in a process within the organization to do a country presentation.

4. Intermediate Military Objectives: This course supports the following
USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and
USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH

(MASL D141247) L3AZR1412470SRC	Aircraft Hydraulic Systems Technician	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is designed to train Aircraft Hydraulic Systems Technicians on the fundamentals of aircraft hydraulic systems at the apprentice and journeyman level. Graduates will learn hydraulic and pneumatic principles, system theory, hydraulic system and subsystem operation, on-aircraft troubleshooting techniques and related system support equipment. The course instruction includes Fundamentals, Units and Systems, Aircraft Management, Back Shop Maintenance, and Inspection and Maintenance.

BLOCK I – FUNDAMENTALS
This block begins with a course orientation, where students learn about the academy's policies, programs, and academic objective requirements. Instruction is provided on ground, back-shop, and flight line safety. Students learn the principles of flight, hydraulics, and pneumatics. They will also learn on basic pneudraulics, electrical principals and fundamentals, and the operation of the multimeter.

BLOCK II – UNITS AND SYSTEMS
This block will focus on Aircraft Hydraulics fundamentals, components and systems. Utilizing schematics, students will learn the theory of operation of fighter aircraft and cargo aircraft hydraulic system and subsystems. They will perform maintenance and operational checks on hydraulic system and subsystems, such as; Power, Cargo doors and ramp, landing gear, wheel brake and flight controls. Students will also learned Structured troubleshooting methods and servicing.

BLOCK III – AIRCRAFT MANAGEMENT
This block provides students instruction on aircraft and support equipment maintenance and service documentation. They will learned aircraft and support equipment forms utilization. Also, students will learn how to identify and utilize technical order publications.

BLOCK IV – BACK SHOP MAINTENANCE
This block concentrates on Hydraulics Back shop maintenance. The students will learn the operation and maintenance of in-shop equipment. They will also learn the overhaul process of hydraulic components such as brake assemblies. Lastly, students will hand/machine build and test hydraulic and pneumatic flexible hoses.

BLOCK V – INSPECTION AND MAINTENANCE
This block will focus on aircraft and support equipment inspections and maintenance. The students will learn the concepts and principles of preventive maintenance and inspections. They will also learn how to operate support equipment such as Power units, hydraulic stands, and hydraulic/nitrogen servicing carts.

2. Course Requirements:

2.1. Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing.

2.2.3. Other: Normal manual dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements section, utility uniform, battle-dress uniform or equivalent, and steel toe boots are required.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D141249) L3AAR1412490SRA	Aircraft Maintenance Superintendent	10 weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is designed for experienced senior Non-commissioned officers and civilian equivalent that perform supervisory and/or superintendent duties and assume a greater leadership role within a maintenance complex. Graduates will increase their knowledge and understanding of maintenance operations while honing his/her military professionalism and increase their ability to function as a senior maintenance supervisor and/or Maintenance Superintendent. The course instruction includes General Subjects, Operational Programs, USAF Technical Order, Aircraft Forms And Logistics Systems, On-The-Job Training (OJT), Personnel Management, Maintenance Organization Structure and Responsibilities, and Aircraft Generation.

BLOCK I – GENERAL SUBJECTS
This block begins with a course orientation, where students learn about the academy's policies, programs, and academic objective requirements. It also provides the student with an introduction to Human Rights. This block provides detailed lectures and discussions on the maintenance safety doctrine, Supervisory Safety responsibilities Safety practices and the Air Force Occupational Safety and Mishap Prevention Program.

BLOCK II – OPERATIONAL PROGRAMS
This course provides the student with the fundamentals of the Risk Management (RM) program, Job Safety Analysis, and the Quality Assurance (QA) functions. Subjects to be covered include: The role and responsibilities of QA in evaluating and assessing personnel proficiency (including the quality and effectiveness of training programs), equipment, and aircraft condition, as well as the management of specific programs that ultimately increase mission effectiveness.

BLOCK III – USAF TECHNICAL ORDER, AIRCRAFT FORMS AND LOGISTICS SYSTEMS
The objective of this lesson is for each student to know the evolution of Quality and the principles behind the concept of Quality. The student also learns the concept of Quality Practices and Management in today's military environment. It also provides the student with decision tools that are essential in enhancing the continuous improvement efforts, an understanding of team dynamics and how to apply team leader skills to manage a successful team.

BLOCK IV – ON-THE-JOB TRAINING (OJT)
This block begins with a general introduction to the AF publication system and it is followed by a familiarization with the Technical Order (TO) system, the TO Index system and the TO numbering system. Students learn the purpose, authority, and use of the USAF TO system, and illustrated parts breakdowns. They also learn how to research and select the proper Technical Order and how to determine the status of Technical Orders.

BLOCK V – PERSONNEL MANAGEMENT
The student is exposed to the On-the-Job-Training Program. The students learn the structure of the program and responsibilities of key personnel within training program. It also teaches supervisors how to plan, conduct, evaluate and document training.

BLOCK VI – MAINTENANCE ORGANIZATION STRUCTURE AND RESPONSIBILITIES
Students are introduced to weight and balance principles in aircraft maintenance operations. Students learn and perform mathematical formulas used to calculate aircraft weight changes, aircraft Center of Gravity (CG) changes, and proper forms documentation related to weight and balance.

BLOCK VII – AIRCRAFT GENERATION
Students are provided with working knowledge of the principles and techniques of effective personnel management to include: supervisory job and responsibilities, the management process, effective leadership, human relations, effective communication, and counseling. This principles and techniques will further hone the military professionalism and leadership trait of students.

2. Course Requirements:

2.1. Eligibility: Open to military members between the ranks of E-7 through E-9, police or civilians equivalent and/or to military members in the ranks of E-5 and E-6, police or civilians equivalents who are performing aircraft maintenance superintendent duties or that will perform aircraft maintenance superintendent duties immediately after attending this course.

2.2. Medical requirements:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Speech: Normal hearing and speech.

2.2.3. Physical: Normal dexterity**.**

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, ABUs, or fatigues. Do not need steel toe boots.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
L3AQR1412510SRA (MASL D141251)	Aircraft Technician	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is designed to train aircraft maintenance technician apprentices on operational principles and theory of ground safety, aircraft systems and sub-systems, component description and operation, aircraft ground handling, inspection, servicing procedures, and operation of aerospace ground equipment. Graduates will learn aircraft familiarization of light aircraft (fighters, trainers, and attack). They will be required to pass a written and or performance test at the end of certain blocks prior to advancement to the next block of instruction. The course instruction includes Familiarization, Aircraft General, Electrical System, Utility Systems, Pneudraulics System, Flight Control System, Fuel Systems and Jet Engine and Subsystems.

BLOCK I – FUNDAMENTALS
This block consists of course orientation, academy's policies, programs, and academic objective requirements. Students learn safety principles, accident prevention, aircraft ground safety and flight line procedures. They also learn about Technical Orders (T.O.), aircraft records, inspection systems, hand tools, and aircraft hardware.

BLOCK II – AIRCRAFT GENERAL
Students learn the variety of airframe structures, reference datum numbering and aircraft markings. They are taught aircraft ground handling, marshalling procedures, parking, towing, mooring, and jacking. Students also learn the principles and use of non-powered ground support equipment, operation of powered ground support equipment, corrosion control, and aircraft safe for maintenance.

BLOCK III - ELECTRICAL SYSTEM
Students learn the operational concepts and theory of electricity, circuits, and components. They learn identification and inspection procedures of the direct and alternating current systems, aircraft lighting systems, and operation of aircraft fire and overheat warning systems.

BLOCK IV - UTILITY SYSTEMS
Students learn the fundamental principles, components, theory of operation, and inspection procedures of the bleed air system, air-conditioning and pressurization systems, fire extinguisher and anti-icing and de-icing systems. Additionally, the operation of the liquid and gaseous oxygen system, servicing procedures, and the inspection procedures of the utility systems are discussed.

BLOCK V - PNEUDRAULIC SYSTEM
Students learn the aircraft pneudraulics systems, components, and operation. Students learn the aircraft's landing gear, inspection, components, and operational checks of the system. Removal and installation of wheel/tire and brake assembly is also taught during this block of instruction.

BLOCK VI - FLIGHT CONTROL SYSTEM

Students learn theory and principles of flight. They identify and state the purpose of the primary and secondary flight control surfaces and components. Students also perform procedures of inspection, rigging, removal and installation of flight control surfaces.

BLOCK VII - FUEL SYSTEMS
Students learn the fundamentals of the fuel system, inspection procedures and safety precautions, components and operation of the internal and external fuel system, and inspection and servicing procedures.

BLOCK VIII – JET ENGINE AND SUBSYSTEMS
Students learn the technical terminology, major sections, and component on several types of jet engines. They also learn principles of operation, inspection and component location, and subsystems. Finally, students will learn to remove, inspect, and install an engine.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent. Basic personal computer knowledge is highly desirable.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students attending this course are required to bring the following utility or work uniform: BDUs, fatigues, flight suit, maintenance coveralls or equivalent.

3. Intermediate Military Objectives: This course supports the following
USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and
USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D141253) L3AQR1412530SRB	Avionics Instrument Technician	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is designed to take students through all phases of various avionics instrument and flight control systems. Graduates will learn identification and relationship of associated systems. They will be able to state principles and facts for all systems and associated systems, and will have in-depth understanding needed to work these systems throughout their careers. They will be required to pass a written and/or performance test at the end of certain blocks prior to advancement to the next block of instruction. The course instruction includes Maintenance Concepts, General Wire Maintenance, Quantity Indicating Systems, Barometric Flight Instruments, Engine Instrument Systems, Integrated Flight Instruments Systems, Compass Systems, and Advanced Systems.

BLOCK I – MAINTENANCE CONCEPTS
This block starts with a course orientation in which students are made aware of the academy's policies and procedures, hazards, and ground safety. Students are then familiarized with maintenance and electrical fundamentals, as well as aircraft and flight theory needed for subsequent blocks of instruction. Finally, the theory of basic electromechanical devices is covered to establish the background for more complex systems. Students learn the principles of operation, terminology, and characteristics of transformers, relays, motors and generators, as well as remote position indicating systems (Synchros, Magnesyn and Selsyn).

BLOCK II – GENERAL WIRE MAINTENANCE
This block starts with general wire basics and inspection procedures. The principles of wire repair are also covered through wire splices and safety devices. Students will also learn how to solder and safety wire.

BLOCK III – QUANTITY INDICATING SYSTEMS
Block III of instruction introduces students to aircraft quantity indication systems and direct pressure indication systems. The principles of operation, terminology, and characteristics are explained, to include: resistive type quantity indicating systems, capacitance type fuel quantity indicating systems, and direct pressure indicating systems. Students will learn to use test equipment such as the capacitive fuel quantity tester.

BLOCK IV – BAROMETRIC FLIGHT INSTRUMENTS
This block begins with the introduction of aircraft pitot-static systems. It covers the theory of barometric altimeters, vertical velocity indicators; and airspeed indicators. It concludes by learning about Traffic Collision Avoidance System (TCAS). Students will perform a complete checkout of a pitot-static system and all associated instruments using the TTU-205F test set.

BLOCK V – ENGINE INSTRUMENT SYSTEMS
In Block V students will learn the principles of operation and terminology of engine instrument indication systems. Students are familiarized with the characteristics of synchronous pressure indicating systems, fuel flow indicating systems, tachometer indicating systems, temperature

indicating systems, and torque indicating systems. Students will learn to use test equipment such as TTU-23 for synchronous systems, TTU-27 for testing instruments and transmitters in a tachometer system, and the Jet-Cal tester for thermocouple testing.

BLOCK VI – INTEGRATED FLIGHT INSTRUMENTS SYSTEMS
This block of instruction covers the principles of operation, terminology, and characteristics of the G-meter, Gyroscopic Principles, Turn and Bank Indicator, Self-Contained Attitude Indicators such as the J-8, Remote Attitude Indicating Systems, and Flight Director Systems. Students will get hands-on training and interaction with working mockups of these systems.

BLOCK VII – COMPASS SYSTEMS
During block VII students will learn the principles of operation, terminology, and characteristics of the standby compass and electronic gyro compass systems such as C-12. A working mockup of the electronic compass is provided for interaction and hands on training as well as an Attitude Hearing and Reference System (AHRS) mockup.

BLOCK VIII – ADVANCED SYSTEMS
In this final block of instruction, students will learn the principles of operation, terminology, and characteristics of the Stall Warning System and Autopilot System, and accomplish a complete functional analysis of the autopilot system. They will gain valuable knowledge applicable to all autopilot systems in general. Mockup and desktop simulations are provided in order to perform hands on training.

2. Course Requirements:

2.1 Eligibility: Open to military members of all branches, law enforcement agencies no higher than the rank of O-4, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses with non-conductive material).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Intermediate Military Objectives: This course supports the following USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D141254) L3AQR1412540SRB	Aircraft Electrical Fundamentals Technician	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is design to provide aircraft electrical fundamentals for the apprentice level student and serves as the foundation for aircraft electrical system maintainers. Graduates will learn to confidently repair aircraft electrical systems. They will receive training in aircraft safety, electrical theory and principles, equipment and maintenance, and operational procedures. Instruments, communication, navigation, and armament systems are excluded. The course instruction includes Maintenance Basics, Direct Current (DC) Principles, Alternating Current (AC) Principles, Power Generation, Aircraft Systems I, and Aircraft Systems II.

BLOCK I – MAINTENANCE BASICS
Instruction begins with an introduction to the Aircraft Electrical Fundamental Course. Students will see the course outline and content. Topics discussed in this block are safety; Technical Orders (T.O.) and aircraft familiarization; handtools, hardware and wires; wire maintenance; safety devices and soldering.

BLOCK II – DIRECT CURRENT (DC) PRINCIPLES
Some of the subject areas covered in this block include: DC electrical fundamentals, magnetism, DC generators, DC motors, electrical and electronic symbols, battery fundamentals, series circuits, parallel circuits, and series-parallel circuits.

BLOCK III -- ALTERNATING CURRENT (AC) PRINCIPLES
Students will learn about AC fundamentals, inductors, transformers, capacitors, AC motors, semiconductors, solid state devices, amplifying circuits, electronic voltage regulators, and logic gates and data buses.

BLOCK IV -- POWER GENERATION
Areas discussed in this block include: diagrams and troubleshooting, three-phase generators, single AC generator system, and DC power supply system.

BLOCK V – AIRCRAFT SYSTEMS I
Students now learn about AC distribution, inverters, AC change-over system, DC voltage regulators, reverse urrent relays, over-voltage system, fire and overheat warning systems, flight control systems and lighting systems.

BLOCK VI AIRCRAFT SYSTEMS II
At this point students learn about landing gear systems, nose gear steering systems, anti-skid systems, and cargo door systems.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses), plastic or non-conductive frame glasses (if worn).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Other Information: Members are encouraged to bring material to do a country presentation.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D141257) L3AZR1412570SRB	Helicopter Crew Chief	12 weeks
STUDENT LOAD: MIN: 5 MAX: 10		

1. Course Description: This course is designed for personnel working as a helicopter maintenance technician. Graduates will learn ground safety, publications, airframe familiarization, landing gear maintenance, special and common tools, hydraulic, electrical, instruments and avionics system familiarization, rotary wing aerodynamics, major component removal and installation, flight control system rigging, T-53 engine and related systems inspections, drive train systems maintenance, familiarization of Vibrex equipment and vibrations as applicable to helicopters. The course instruction includes General Subjects, Helicopter General, Helicopter Systems, Helicopter Powerplant, Rotor Systems, Power Train System and Flight Control System.

BLOCK I – GENERAL SUBJECTS
This block begins with a course orientation, where students learn about the academy's policies, programs, and academic objective requirements. Students are given an introduction to safety doctrine and practices. They are taught the importance of ground safety and its effects on the maintenance activity with emphasis on awareness and compliance. The student will also learn how to identify and properly use maintenance manuals and other reference materials. In addition, the student will learn about the responsibilities of the helicopter maintenance organization and the different levels of supervision. Students are also instructed on how to perform different types of preventive maintenance procedures, required inspections, and documentation.

BLOCK II –HELICOPTER GENERAL
During this block of instruction the student is taught how to properly identify and use common and special tools. Students will learn to identify different types of aircraft hardware and aircraft tubing and hoses according to their color-coded decals. This block will teach the student how to correctly select and install safety devices. The purpose, operation, and safety for different types of powered and non-powered ground support equipment are taught during this block. The student learns to recognize and treat different types of corrosion and the procedures for corrosion control. Helicopter ground handling is also included in this block. The students learn hand signals and proper towing procedures. The student will remove, inspect and install the helicopter main landing gear. Students are familiarized with the theory and construction of H-1 helicopter variants.

BLOCK III – HELICOPTER SYSTEMS
This block will familiarize students with the fundamental theory of operation, purpose, and component location of helicopter systems to include hydraulic, electrical, instruments, utility, and fuel systems. Through schematics students are able to visualize the entire flow of these systems and learn the functions of various valves and pumps located within them. They will also learn the identification of different instruments and the meaning of range markings.

BLOCK IV – HELICOPTER POWERPLANT

Students are taught the theory of operation for each T-53 engine system. This block also teaches the proper removal and installation procedure for the T-53 engine.

BLOCK V –ROTOR SYSTEMS
This block begins by familiarizing students with different types of main rotors and their major components. Students will remove the stabilizer bar, main rotor, and blades from H-1 helicopter variants. They will learn the procedures for the stabilizer bar damper check. Familiarization with the tail rotor system is also taught within this block. Students will remove and install the tail rotor, and the pitch change mechanism is discussed. Students are then taught about helicopter vibrations and its affects in flight.

BLOCK VI – POWER TRAIN SYSTEM
This block is designed to familiarize students with information about the helicopter power train system. Students will remove and install the main transmission. The removal and installation of the tail rotor drive shafts, hanger bearing assemblies, and 42 degree and 90 degree gearboxes are also accomplished during this block. In this block the students will install the stabilizer bar, main rotor, and blades as these components were removed prior to removing the main transmission.

BLOCK VII – FLIGHT CONTROL SYSTEM
During this last block students are familiarized with the purpose and functions of helicopter flight controls. Students will perform rigging procedures on flight controls to include the collective, cyclic, tail rotor, and synchronized elevator systems.

2. Course Requirements:

2.1. Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
L3AAR1410900SRA(MASLD141090)	Turboprop Technician	11 Weeks
STUDENT LOAD: MIN: 4 MAX: 10		

1. Course Description: This course is designed to provide turboprop engine and propeller technicians with advanced operational theory and hands-on maintenance training in order to establish a solid craftsman foundation. Graduates will learn to evaluate conditions and make proper repair decisions of turboprop engine and propeller operating systems and subsystems using the T-56 engine and Hamilton Standard propeller as a platform. They will be required to pass a written and or performance test at the end of certain blocks prior to advancement to the next block of instruction. The course instruction includes Engine familiarization, Engine System Operation, Engine Maintenance, Propeller Familiarization, Propeller Operation and Systems, and Propeller Maintenance.

BLOCK I – ENGINE FAMILIARIZATION
The students will learn an in-depth description and familiarization about the turboprop engine to include a detailed description of all engine components.

BLOCK II – ENGINE SYSTEMS OPERATION
Students will receive engine principles and operational theory on all gearbox accessories and engine components. Students will then learn troubleshooting principles and apply their newly acquired system's knowledge to troubleshoot common system faults.

BLOCK III – ENGINE MAINTENANCE
Students will remove and install critical engine components, as well as perform a complete turbine teardown and build-up. Students will also learn important trouble shooting procedures and in-shop maintenance practices.

BLOCK IV – PROPELLER FAMILIARIZATION
The students will learn a comprehensive description and familiarization about the Hamilton Standard propeller and its major components.

BLOCK V – PROPELLER OPERATION AND SYSTEMS
Student will receive information about operational theory and trouble-shooting techniques on the propeller's systems and sub-systems.

BLOCK VI – PROPELLER MAINTENANCE
The student will apply all items learned during the course and completely rebuild the engine's propeller and sub-assembly using special tools.

2. Course Requirements.

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent and have completed an apprentice-level propeller technician course or have one or two years of propeller maintenance experience.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Other Information: In Addition to the uniform requirements, students should bring item(s) to perform a country presentation at the academy.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
L3AZR1412800SRB (MASL D141280)	PT-6 Engine Technician	4 Weeks
STUDENT LOAD: MIN: 3 MAX: 10		

1. **Course Description:** This course is designed to provide engine technicians advanced operational theory, hands-on maintenance training, and establish a solid craftsman foundation with extensive operational knowledge and intermediate level maintenance skill. Graduates will learn to troubleshoot, analyze facts and draw conclusions related to the operation and workings of the PT6 engine and engine subsystems. The course instruction includes PT6 Engine Familiarization, Hot Section Inspection, and Maintenance.

BLOCK I – PT6 ENGINE FAMILIARIZATION
This block begins with a course orientation, where students learn about the academy's policies, programs, and academic objective requirements. They will learn the fundamentals of ground safety, maintenance management, maintenance/inspections systems and forms. The students will learn a general description and familiarization about the PT6 engine, its characteristics and theory of operation. All engine systems are discussed in depth and explained to its highest capacity.

BLOCK II – BLOCK II – ENGINE INSPECTION AND MAINTENANCE
Student will receive instruction and complete engine inspection, teardown of major sections, and discusses maintenance procedures using applicable technical data. This includes hot section inspection.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent and have completed an apprentice-level jet engine course or have two years of practical experience in the jet engine field.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Other Information: In Addition to the uniform requirements, students should bring item(s) to perform a country presentation at the academy.

4. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D141282) L3AZR1412820SRC	Corrosion Control Technician	6 Weeks
STUDENT LOAD: MIN: 4 MAX: 8		

1. Course Description: This course is designed to train maintenance personnel in the fundamentals of corrosion control. Graduates will learn procedural requirements for the detection, prevention, and treatment of corrosion on aircraft and equipment. They will receive training in cleaning and inspecting aerospace equipment for corrosion, removal of corrosion by mechanical and chemical treatment, manufacture and application of aerospace markings, mixture and application of organic coatings and cleaning and storage of spray equipment. The course instruction includes Fundamentals, Corrosion Control and Application of Coatings.

BLOCK I – FUNDAMENTALS
This block begins with a course orientation, where students learn about the academy's policies, programs, and academic objective requirements. They will learn the fundamentals of ground safety, personal protection, fire prevention, use and storage of chemicals. Students will be taught how to identify and use technical orders. Students will learn of the environmental impact of improper corrosion control practices. They will discuss the characteristics of metals. Additionally, students will learn the factors, types of corrosion, and the effects of corrosion on all aircraft structural surfaces.

BLOCK II – CORROSION CONTROL PROGRAM, CORROSION REMOVAL, AND CORROSION TREATMENT
The corrosion control program is presented, plus cleaning methods are explained and taught according to technical orders. Students are taught corrosion removal, treatment, and inspection techniques, using the mechanical methods. They will discuss the procedures and methods of chemical treatment and surface preparation to prevent corrosion.

BLOCK III - APPLICATION OF COATINGS
Finally students learn about the composition of coatings, the care and use of equipment, the application of aerospace markings, and polyurethane coatings.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent. Basic personal computer knowledge is highly desirable.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal manual dexterity. Must not have any physical or medical condition that will prevent the wearing of a full-face respirator.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
L3AAR1410890SRA (MASL D141089)	Advanced Helicopter Crew Chief	8 weeks
STUDENT LOAD: MIN: 4 MAX: 8		

1. Course Description: This course is designed for personnel working as an Advanced Helicopter maintenance technician. Graduates will learn ground safety familiarization, landing gear maintenance, hydraulic systems maintenance, T-53 Engine alignment and throttle rigging, flight idle rigging, Twin Pack Power Plant rigging, UH-1 Fuel System troubleshooting, rotary wing aerodynamic principles, rotors and drive train system maintenance, major component removal and installation, flight control system inspection, troubleshooting, rigging, installation and operation of Vibe equipment to include vibration analysis and Weight and Balance procedures. The course instruction includes General Subject, Landing Gear and Hydraulic Systems, T –53-L-13b Engine, Twin Pack Power Plant and UH-1 Fuel Systems, Rotors and Drive Train System, Flight Controls, Vibrations, and Weight And Balance

BLOCK I - GENERAL SUBJECT, LANDING GEAR AND HYDRAULIC SYSTEMS
This block begins with flight line safety responsibilities at the supervisory level. They are familiarized with tasks related to airframe and landing gear inspections, deflection checks and weigh the helicopter using load cells. Rigging procedures are performed on the collective, cyclic and tail rotor flight control systems.

BLOCK II - T –53-L-13B ENGINE
Adjustment and troubleshooting of the T-53 turbo shaft engine and its components is the focus in this block. Students will perform engine throttle and power control rigging. They will also perform engine to transmission alignment and starting engine procedures using the UH-1 systems trainer.

BLOCK III – TWIN PACK POWER PLANT AND UH-1 FUEL SYSTEMS
This block contains PT-6/T-400 Engine components and systems operations, droop compensator Nf rigging, power lever control Ng rigging, beep actuator control rigging, and UH-1 Fuel System.

BLOCK IV - ROTORS AND DRIVE TRAIN SYSTEM
Main and tail rotor hub assembly inspection procedures are accomplished. The main rotor hub is disassembled and reassembled. Wear limitations are identified and discussed. The student will learn the operating characteristics of the drive train system. They will also become skilled on how to disassemble and reassemble the drive shaft hanger bearings and inspect the main drive shaft. Students will gain knowledge of operating principals of all gearboxes. They will learn to remove, inspect, and install the 42 degree and 90 degree gearboxes.

BLOCK V – FLIGHT CONTROLS, VIBRATIONS, WEIGHT AND BALANCE
In this block the student is taught vibration characteristics and their effects on the helicopter airframe and rotating components. They will learn to install and use vibration analysis equipment and apply troubleshooting techniques to solve vibration problems. Students will install actual equipment on aircraft and apply troubleshooting procedure with a whirly-gig simulator to reduce

vibrations. An introduction to use and function of the 8500 spectrum analyzer is given. They will also learn the weight and balance procedures. Students will receive a thorough understanding of flight controls and rigging procedures. Flight control inspections are performed and troubleshooting procedures discussed.

2. Course Requirements:

2.1. Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent and have completed the helicopter crew chief course (MASL 141257) or equivalent or have one year of practical experience on any rotary wing aircraft.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment: In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASLD141396) L3AZR1413960SRB	Aircraft Structural Maintenance Technician	12 Weeks
STUDENT LOAD: MIN: 4 MAX: 12		

1. Course Description: This course is designed for international commissioned and non-commissioned officers to perform duties as an aircraft structural maintenance technician. Graduates will learn how to repair, modify, and fabricate aircraft metal components and assemblies, cleaning and inspecting aerospace equipment for corrosion, removal of corrosion by mechanical and chemical treatment, manufacture and application of aerospace marking, mixture and application of organic coatings, cleaning and storage of spray equipment and manufacturing tubing and cable assemblies. They will receive training in the theory of corrosion and to form a better understanding about common aircraft metals. Additional areas of training focus on the fundamentals of painting aircraft parts. The course instruction includes Fundamentals of Aircraft Structural Maintenance, Fabrication of Aircraft Parts, Corrosion Principles, Aircraft Structural Repair, Tubing and Cables, and Composite Repairs.

BLOCK I – FUNDAMENTALS OF AIRCRAFT STRUCTURAL MAINTENANCE
This block begins with a course orientation, where students learn about the academy's policies, programs, and academic objective requirements. Students are given an introduction to safety doctrine and practices. They will learn the characteristics and identification of common aircraft metals. Students learn shop mathematics, how to interpret technical drawings, and tool control. Students initially learn how to utilize simple tools such as: rulers, scribes, and dividers to develop metal layouts and cut them with non-powered equipment. Lastly, the student will use the same metal layouts to learn how to make different types of sharp bends.

BLOCK II – FABRICATION OF AIRCRAFT PARTS
In block II, students will learn about setback and bend allowance-using tables and charts to calculate the minimum and maximum radius bends that can be accomplished. They will also fabricate a Simulated Aircraft Structure (SAS) utilizing their knowledge. Afterwards, they will learn to form a metal part by hand then by machine forming.

BLOCK III – PREPARATION FOR STRUCTURAL ASSEMBLY
During block III structural assembly preparation, students advance and begin to utilize powered equipment and tools. They learn about the power shear and band saw and how they are used to cut out sheet metal. Rivet identification, rivet pattern and rivet layout is taught followed by pneumatic drilling, countersinking, and dimpling holes using the SAS.

BLOCK IV – CORROSION PRINCIPLES
The students learn about technical orders and the principle of corrosion affecting common aircraft metals. They learn about hazardous materials and the importance of shelf life program for chemicals. The students learn about spray guns, spray pattern defects, chemical preservation, and application of primer on the SAS. The student is taught pneumatic riveting on the SAS. The SAS will be used to apply a protective coating.

BLOCK V – AIRCRAFT STRUCTURAL REPAIR
The students learn about classifying damage and stop-drilling cracks. They also learn about coating and corrosion removal. Lastly, they learn non-flush repair and a combination repair on the completed SAS.

BLOCK VI – TUBING AND CABLES
In this block of instruction students learn about the most common hardware and fasteners used on aircraft. They will also learn how to manufacture aircraft tubing assemblies. The block concludes with learning about aircraft cables.

BLOCK VII – COMPOSITE REPAIRS
In the final block of instruction students learn about advanced composites. Unlike earlier composite structures defined in the course, students start with basic fiberglass composites and from there transition to the more advanced Kevlar and Graphite composite structures. Topics discussed are advantages and disadvantages of advanced composites use, handling, storage, construction and repair of such structures.

2. Course Requirements:

2.1 Eligibility: Open to military members no higher than the rank of O-4, police, or civilian equivalent.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing with no speech impediments.

2.2.3. Physical/Other: Normal manual dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls. Steel toe boots and goggles.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSE NUMBER	COURSE NAME	LENGTH
(MASLD141259) L3AZR1412590SRB	Cargo/Transport Aircraft Technician	8 Weeks
STUDENT LOAD: MIN: 4 MAX: 10		

1. Course Description: This is an essential course designed to provide aircraft apprentices and journeymen the guidance to develop fundamental knowledge on cargo-type aircraft systems' operation through the Simulated Based Training Aid (SBTA) and hands on training. SBTA's are real-time simulations that accurately reproduce the normal and abnormal behaviors of any system, sub-system or process of the cargo aircraft. This method of training builds student confidence as it provides a safe training environment. The concepts of this course are presented in a context that enhances an understanding of fundamental theories and methods of aircraft maintenance. This fast-paced training is composed of six blocks of instruction covering the cargo aircraft systems in their entirety. This course includes the following blocks of instruction: Aircraft General, Electrical Systems, Fuel System, Utility Systems, Hydraulic Systems, and Propulsion Systems.

BLOCK I- AIRCRAFT GENERAL
Students learn the principles of safety, accident prevention, and aircraft ground safety during aircraft jacking and towing procedures. Students also learn how to select and interpret technical data and are introduced to aircraft form documentation.

BLOCK II- ELECTRICAL SYSTEMS
Students learn the theory of operation of a cargo aircraft's electrical systems. Discussions will focus on the main electrical system and miscellaneous subsystems, such as AC/DC power, lighting, fire and overheat detection, and operational checks.

BLOCK III- FUEL SYSTEMS
Students learn about specifics of a cargo aircraft's fuel system. They will use technical publications and SimGraph software as they will have hands-on training on servicing fuel systems. They will also learn different safety configurations, dump in case of an emergency, quantity indication, refuel, defuel, and vent system operations.

BLOCK IV- UTILITY SYSTEMS
Students will understand cargo aircraft utility systems in this block. They will learn specifics of the operational procedures of the bleed air system, anti-ice system, air conditioning system, and the pressurization system. Students will operate various utility systems to tie all concepts learned.

BLOCK V- HYDRAULIC SYSTEMS
Students learn the characteristics and interaction of specific components on cargo aircraft hydraulic systems. Students will also learn about the theory and operation of hydraulically powered components such as the ramp and aft cargo door, flight controls, brakes, and landing gear systems.

BLOCK VI- PROPULSION SYSTEMS
Students learn principles of different types of cargo aircraft engines. Students will also cover:

propellers, oil system, fuel system, and ignition. Finally, they learn system components and their related inspection principles.

2. Course Requirements:

2.1. Eligibility: Open to military members no higher than the rank of O-3 or E-4, police, or civilian equivalent who have completed an apprentice level cargo/transport aircraft technician course or who have at a minimum three months of practical experience on any cargo/transport model aircraft.
Note: This course is tailored to students who will work cargo/transport type aircraft during their aviation careers.

2.2. Physical/Medical:

2.2.1. Vision: Normal (20/20 with or without glasses).

2.2.2. Hearing/Speech: Normal hearing and speech.

2.2.3. Physical/Other: Normal dexterity.

2.3. Uniform/Equipment**:** In addition to the uniform requirements listed in the General Clothing Requirements in General Information section, students in this course are required to bring the following utility or work uniform: BDUs, fatigues, coveralls.

3. Intermediate Military Objectives: This course supports the following USSOUTHCOM/TCP objectives: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and USNORTHCOM/TCP objectives: 1.4, 1.6, 1.7, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3, 4.4, 4.5, 4.6.

COURSES IN DEVELOPMENT

The courses below are scheduled for development in 2017; therefor, updated information will be added to the 2019 catalog once curriculum and instruction dates have been approved.

(MASL D172023), Intelligence, Surveillance and Reconnaissance (ISR) Fundamentals
(MASL D141254), Aircraft Electrical Fundamentals Technician
(MASL D141243), Aircraft Maintenance Officer
(MASL D141249), Aircraft Maintenance Superintendent
(MASL D141280), PT-6 Engine Technician

The IAAFA Mission

Strengthening international partnerships through education and training

http://www.37trw.af.mil/Units/Inter-AmericanAirForcesAcademy.aspx