



**Inter-American Air  
Forces Academy  
(IAAFA)**

**2016  
COURSE  
CATALOG**

**JBSA-Lackland, Texas**



**COMMANDANT'S MESSAGE**

It is my distinct pleasure to offer you the Inter-American Air Forces Academy (IAAFA) course catalog for calendar year 2016. The purpose of this catalog is to assist host governments and Security Cooperation Offices in the selection and preparation of students slated to attend training at IAAFA. In addition, this catalog serves as a reference for the United States Air Force (USAF) and other security assistance agencies.

As part of the USAF's Air Education and Training Command, IAAFA's unique mission focuses on providing partner nations education and training in the areas outlined in this catalog. Graduates are fully prepared to carry out their duties, armed with the skills obtained through training exchanges and in accordance with the highest standards of education.

Suggestions received during our visits to your countries have been incorporated in this catalog. We will distribute revisions and/or additions to this catalog during the calendar year as well as post any changes made on IAAFA's web page at <http://www.37trw.af.mil/units/inter-americanairforcesacademy/index.asp>. This catalog replaces the 2015 course catalog; therefore, all previous editions are obsolete. Please forward any proposed changes or questions about obtaining additional copies of this publication to the office below:

E-mail Address:[IAAFA.IMSO@us.af.mil](mailto:IAAFA.IMSO@us.af.mil)Mailing Address:

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

I sincerely hope the students attending IAAFA courses have pleasant and productive stays. The exchange of cultures and experiences at IAAFA will serve to further strengthen the bonds of friendship and cooperation among partner nations and assist in building robust and inter-operable militaries to answer global challenges.



MONICA M. PARTRIDGE, Col, USAF  
Commandant

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## 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](mailto: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.

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

<b>COURSE LENGTH</b>			
<b>Officer and Enlisted</b>	<b>12 Weeks</b>	<b>Less than 12 weeks: Graduate at end of class</b>	<b>Less than 12 weeks: Do not graduate at end of class</b>
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 is now providing "Free" dormitory space for E-4s (Males only) and below. In order for country to take full advantage of the free dormitory it's imperative and required that each country provide a Country Liaison Officer (CLO) to accompany their students.

### **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 Lackland AFB 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

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## 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. L3AZR1234560SRA). 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.

**PROFESSIONAL MILITARY EDUCATION**

COURSE NUMBER	COURSE NAME	LENGTH
MASL D171032 (E-IMET) Mobile Course MASL: D309054	Inter-American Squadron Officer School (ISOS)	8 Weeks
<b>STUDENT LOAD:</b> 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 graduate 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.

**ADMINISTRATION:** Administration focuses on the dissemination of critical and administrative information required for the students to successfully complete this course. There will be formal feedback sessions with the faculty to evaluate the students' understanding of the curriculum. As part of the evaluations program, students will also have the unique opportunity to perform peer-evaluations and thus obtain a different perspective in their development as future leaders of their organizations.

**EXTRACURRICULAR ACTIVITIES:** This area promotes inter-Americanism through the exchange of ideas and practical activities. In this block, lessons are taught on Human Rights, the United States government and culture, while building partnership capacity. This learning block recognizes various areas where international officers can learn the different aspects of the USAF and vice versa.

**PROFESSION OF ARMS STUDIES:** At the primary level of PME, 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 US military in obedience to its civilian leadership and in defense of the civilian public. They will also integrate personal and professional values into a warrior ethos consistent with the highest standards of conduct expected of military officers.

**WARFARE STUDIES:** Emphasis at the primary level is placed on the application of the military as a national instrument of power. 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 to better support the joint war-fighting team.

**LEADERSHIP STUDIES:** The primary focus is 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 is on the dynamics of the interaction between individual leadership skills and group interaction in building successful teams. Instruction is based on concepts and philosophies that officers can use to improve leadership skills, adjust leadership styles to the situation, accomplish assigned tasks, and employ followers' abilities effectively. There are several opportunities throughout the course for officers to apply the leadership skills and techniques they have learned.

**COMMUNICATION STUDIES:** The Communication Studies block amplifies instruction received at the pre-commissioning and basic level and provides opportunities to apply the principles of effective communication and to receive feedback. Special attention is given to those listening, speaking, writing, and interpersonal communication skills instrumental in team building. Interpersonal communications emphasize maximizing the potential of the individual as 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:** The primary level of PME emphasizes those 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 a military member 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.

COURSE NUMBER	COURSE NAME	LENGTH
MASL D171033 (E-IMET) Mobile Course MASL: D309034	Inter-American Noncommissioned Officer Academy (INCOA)	8 Weeks 6 Weeks (MTT)
<b>STUDENT LOAD:</b> 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.

**PROFESSION OF ARMS** - These lessons are all designed to increase student comprehension on how our professional mindset and behaviors promote airmanship and national security. The lessons covered include Airmanship, Human Performance, Air Force Culture and Heritage, Diversity, Ethical Leadership, Joint Organization/Warfighter, and Cross Cultural Awareness.

**LEADERSHIP** - The Leadership and Management area develops the skills necessary to fulfill supervisory responsibilities for the NCOs current rank and to prepare the NCO for future responsibilities, while bridging the gap to the next level of PME. The subjects covered are Team Building, Leader Influence, Negotiating, Resource Stewardship, Discipline, Emergent Leadership Issues, Change Management, and Continuous Improvement.

**COMMUNICATION** - Designed to increase student knowledge of successful learning, barriers to communication, preparing to communicate, effective writing, effective speaking, and interpersonal communication skills.

## 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**

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D121064) L3OZR1210640SRB	Pilot Instrument Procedures	11 Weeks
<b>STUDENT LOAD:</b> 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.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D121065) L3OZR1210650SRB	Instructor Pilot Instrument Procedures	12 Weeks
<b>STUDENT LOAD:</b> 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
<b>STUDENT LOAD:</b> 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 instruction course 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 D122105) L3AZR1221050SRA	Weapons Safety	6 weeks
<b>STUDENT LOAD:</b> MIN: 4 MAX: 12		

**1. Course Description:** This course is designed to provide training for international personnel assigned to weapons safety management. Graduates will learn about the organization of the US Air Force safety program, governing non-nuclear standards, support agreements, safety council/meetings, weapon safety training and education, weapon safety representatives, inspections and evaluation, flight line munitions operations, and Risk Management (RM). The course instruction includes Safety Program Management, Mishap Classifications and Reports, Explosive Safety Principles, Quantity Distance (Q-D) Concepts, and Site Planning.

#### **BLOCK I – SAFETY PROGRAM MANAGEMENT**

Instruction begins with a course orientation in which students are made aware of the academy's policies and procedures, safety hazards, first aid, and human rights training. Topics discussed include non-nuclear standards, role of the Weapons Safety Manager (WSM), training and education requirements, risk management, and tools/techniques.

#### **BLOCK II – MISHAP CLASSIFICATIONS AND REPORTS**

Subjects covered include mishap classification and categories, investigation techniques, mishap prevention. Students will conduct a mishap investigation and prepare a report.

#### **BLOCK III – EXPLOSIVE SAFETY PRINCIPLES**

This block of instruction identifies safety inspection requirement for storage, serviceability, and operations of munitions to include license locations, and transporting on and off base requirements. Students will process, prepare, and inspect a facility to determine explosive license requirements and will prepare an inspection report.

#### **BLOCK IV – QUANTITY DISTANCE (Q-D) CONCEPTS**

In this block of instruction students are required to determine procedures for quantity distance separation types, tables, explosives barricades, and specific facility situations. Students will determine risk assessments, protective measures with explosives. They will determine quantity distance separation and site plan requirements.

#### **BLOCK V – SITE PLANNING**

In this block of instruction students will apply all knowledge acquired in previous blocks. They will prepare and review explosive site plans for a single combat aircraft parking area, munitions storage area, and assembly conveyer. Also they will prepare waiver/exemption request and review explosives site plan packages.

**2. Course Requirements:**

2.1 Eligibility: Open to military members between the ranks of E-5 through O-5, police or civilians equivalent that performs or plans to perform weapons safety managers' duties. Munitions experience is required.

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.

**4. Intermediate Military Objectives:** This course supports the following  
USSOUTHCOM/TCP objectives: 2, 5, 6, 7, 8, 11 and the USNORTHCOM/TCP objectives: 1.1,  
1.2, 1.3, 1.4, .1.5, 1.6, 1.7, 2.6, 3.1, 3.2, 3.3, 3.4, 3.5, 4.3

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D126013) L3AQR1260130SRA	International Anti-terrorism Level I Course	1 Week
<b>STUDENT LOAD:</b> MIN: 5                      MAX: 15		

**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 antiterrorism. They will receive training in the characteristics of terrorist operations, describing the phases of a terrorist incident, discussing the most common terrorist acts, explaining the types of weapons used by terrorists, and identifying the countries that supply the major portion of terrorist weaponry. The course instruction includes Fundamentals of Terrorism.

### **BLOCK I – FUNDAMENTALS OF TERRORISM**

Training includes, introduction to terrorism, terrorist operation, protecting terrorist surveillance, individual protective measures and hostage survival.

### **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

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D126014) L3AAR1260140SRA	International Anti-terrorism Level II Course	1 Week
<b>STUDENT LOAD:</b> MIN: 5                      MAX:15		

**1. Course Description:** This course is designed to prepare mid-level to high-ranking members of any branch of the military or civilian counterparts to advise installation commanders on antiterrorism matters. Graduates will learn the roles of the Intelligence (INTEL), and Counterintelligence (CI) agencies. They will receive training to identify basic physical security considerations as they apply to installations and facilities in order to become familiar with the purpose of the vulnerability assessment, the functions of the assessment, and the process one must go through in order to conduct an assessment. Additional areas of training focus on vulnerability elements associated with an assessment, the application of physical security and assessments, and the procedures for conducting an assessment. The course instruction includes Dynamics of Terrorism.

#### **BLOCK I – DYNAMICS OF TERRORISM**

Training includes assessing the threat, understanding anti-terrorist roles and responsibilities, conducting Vulnerability Assessments (VA) and VA presentation to installation commanders.

#### **2. Course Requirements:**

2.1. Eligibility: Personnel must have completed the Antiterrorism Level I course and 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: Normal hearing and speech.

2.2.3. Physical/Other: 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

<b>COURSE NUMBER</b>	<b>COURSE NAME</b>	<b>LENGTH</b>
(MASL D152054) L3AZR1520540SRB	International Logistics	6 Weeks
<b>STUDENT LOAD:</b> MIN: 8                      MAX: 16		

**1. Course Description:** This course is designed to prepare officers, NCOs and/or civilian personnel assigned to or projected for assignment to logistic management leadership positions. Graduates will learn the importance of the relationship between joint doctrine, contribution of other government agencies, and multinational endeavors. The course instruction includes Introduction to Logistics, Supply Publications, Security Assistance and Security Cooperations, and Foreign Military Sales (FMS).

### **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 support of an operating base. It also provides an extensive look at material management and property accounting. Covered in detail are the important aspects about the processes for determining requirements, establishing appropriate stock levels, focusing on aspects of inventory management and Logistic planning.

### **BLOCK II - SUPPLY PUBLICATIONS**

This block of instruction provides an introduction to supply publications used to research data before requisitioning assets. Students learn to cross-reference part numbers to national stock numbers and search information used in supply 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. In these exercises, the student has the opportunity to practice what has been learned in the classroom. Also, in this block we explain the purpose of Military Standard Requisition Issue Procedures (MILSTRIP) and how the Uniform Materiel Movement and Issue Priority System (UMMIPS) apply between the US military branches and Foreign Nations. Lastly, in this block we discuss the repair cycle process and the selection criteria for the repair cycle assets.

### **BLOCK III - SECURITY ASSISTANCE AND SECURITY COOPERATIONS**

The course aims to increase the students understanding of the management of U.S. 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.

### **BLOCK IV - FOREIGN MILITARY SALES**

This block is modified to present major aspects of the Foreign Military Sales (FMS) program and the management concerns of purchaser and recipient countries. The block explains all aspects relating to the FMS process to include the SCIP system. It covers and explains the different categories of materials and/or services which can be purchased from the US and ensures you differentiate between material/systems managed by the different US military branches as well as items managed by Defense Logistics Agency (DLA). It outlines the purpose and management of the Security Cooperation Information Portal (SCIP) system, explains the similarities and differences between SCIP and STARR/PC2 and covers all aspects in detail of its use in managing the purchase of FMS materiel as well as the management of repairable assets. 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) L3AZR1520550SRB	Materiel Management	6 Weeks
<b>STUDENT LOAD:</b> 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 and how to operate it. The course instruction includes Organization, Supply Publications, Materiel Management, Warehouse Operations and Automated Inventory Management.

#### **BLOCK I – ORGANIZATION**

Students begin this course with an in-depth view of various logistics systems. The focus is on the supply organization and functions of a base level supply unit and its interface with depot level supply. Students learn about the supply/logistics career field, duties, and responsibilities, and how our day-to-day function directly affects the mission of the operational units, which are supported.

#### **BLOCK II – SUPPLY PUBLICATIONS**

This block of instruction provides an introduction to supply publications used to research data before requisitioning assets. This area presents five main sets of publications: FEDLOG, MCRD, H Series, MD/I&S, Characteristics, WebFLIS and Technical Orders. Students learn to cross-reference part numbers to national stock numbers and search information pertaining to commercial/vendor addresses and codes related to commercial entities.

#### **BLOCK III - MATERIEL MANAGEMENT**

This block of instruction covers all aspects regarding the inventorying of material. Document Control, Bench Stock, and also provides an introduction to stock level and economic order quantity principles. It analyzes the USAF model to illustrate the accountability of The Repair Cycle Process.

#### **BLOCK IV – 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 issues to another organization. This block covers processes, which ensure that the property maintains a serviceable condition while in stock and readily available for issue to the correct user, and the time and place for the need of an asset. Forklift instruction is also provided to the students.

#### **BLOCK V – AUTOMATED INVENTORY MANAGEMENT**

This block provides students the opportunity to implement all subjects learned throughout the previous blocks of instruction. Students apply all warehousing principles learned to determine the appropriate warehouse location, assign a warehouse location, and establish a locator system.

Students also establish an automated inventory management database, and actual layout of a storage facility and organization of a supply squadron.

## **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 D155065) L3AZR1550650SRC	Cyber Operations	7 Weeks
<b>STUDENT LOAD:</b> MIN: 4                      MAX: 10		

**1. Course Description:** This course is designed for entry level students. Graduates will learn to identify cyber security vulnerabilities, strengthen their computer infrastructure, network security, establish emergency measures, and develop security policies, procedures and training programs for users. They will receive training to protect their network's integrity and foster security consciousness while improving server/system reliability. Additional areas of training focus on identifying computer and network components and how they interact, network operational concepts, router and switch operations, wireless networking and Wide Area Network (WAN) technologies, concepts related to server infrastructure and configuration, and the use of Office applications, which will enhance the student's skills to work with customers and improve administrative productivity. The course instruction includes Cyber Security, Cyber Networks, and Application Software.

#### **BLOCK I – CYBER SECURITY**

Topics presented to the student are: 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 II – CYBER NETWORKS**

Students are introduced to cyber networks, topics discussed are: Network Fundamentals, Network Operation and Configuration, Wireless and Wide Area Networks (WAN) and Network Server Infrastructure and Services.

#### **BLOCK III – APPLICATION SOFTWARE**

Students are introduced to Windows operating systems, Adobe Acrobat, and the Microsoft Office Suite. In this block students learn the functionality of each application within Microsoft Office Professional with special interest given to databases. The following applications are discussed: Microsoft Outlook, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, and Microsoft Access.

### **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.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D162030) L3AJR1620300SRB	On-the-Job Training (OJT) Administration	4 Weeks
<b>STUDENT LOAD:</b> MIN: 6                      MAX: 14		<b>(MTT Capable)</b>

**1. Course Description:** This course is designed for middle to upper-level training supervisors and managers, officers, NCOs and civilians, who are directly involved with job specific training activities. Graduates will learn to effectively develop, administer and evaluate On-the-Job Training (OJT) Programs. They will receive training in how to plan an OJT program, administer training, evaluate training programs, prepare training directives, and document an OJT program. The course instruction includes OJT Organization and Training Plan Development, and How to Conduct, Evaluate, and Document Training.

#### **BLOCK I - OJT ORGANIZATION AND TRAINING PLAN DEVELOPMENT**

This block covers basic organization of OJT programs. Topics include structure of the OJT program, OJT responsibilities for the supervisor/trainee, presentation of an impromptu speech, developing a specialty job description, and documenting and maintaining training forms and records. The student learns to develop training charts, OJT records, master training listings, as well as electronic training systems.

#### **BLOCK II - HOW TO CONDUCT, EVALUATE, AND DOCUMENT TRAINING**

This block focuses on the actual execution of training programs. Topics include initiating the training process determining training needs, capabilities, and resources, and scheduling training. Instruction also includes concepts of conducting field-training evaluations, managing the training evaluation process, as well as staff assistance visits and the Air Force Trainer Course.

#### **2. Course Requirements:**

2.1 Eligibility: Open to military members with a rank of E-4 and above, but no higher than the rank of O-4, police, or civilians equivalent who administers or manages OJT training 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 mentioned in the General Clothing Requirements.

**3. Other Information:** Students are encouraged to bring examples of unit training programs 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.

**Note:** To get the most out of the On-the-Job Training (OJT) course (MASL 162030) and have a student that can better meet future leadership challenges, we ***highly encourage*** attending the Inter-American Noncommissioned Officer Academy (INCOA) course (MASL 171033) offered just after the OJT course. Elements of the OJT course are used and applied during the INCOA course. The countries not only save funds but also get two courses during one visit to IAAFA.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D166041) L3AZR1660410SRB	Basic Instructor Course (BIC)	8 Weeks
<b>STUDENT LOAD:</b> MIN: 6                      MAX: 14		

**1. Course Description:** This course is designed for experienced officers, NCOs and civilians to perform instructor duties in their respective specialty. Graduates will learn Air Force technical training concepts and techniques to ensure the delivery of quality instruction. They will receive training in how to conduct classroom instruction as well as how to develop curriculum. Additional areas of training focus on extensive practical exercises to build the graduate's presentation skills. The course instruction includes Fundamentals of Instruction, and Instructional Development.

### **BLOCK I - FUNDAMENTALS OF INSTRUCTION**

Instructional techniques and communicative skills lay the foundation for technical instruction. The developmental approach to academic instruction covers instructor roles, responsibilities, and motivational theories. The purpose and use of effective instructional aids is covered in detail. Effective questioning techniques are reviewed and practiced. In addition, instructor counseling techniques are reviewed, practiced and enhanced through classroom scenarios. Student administration procedures are reviewed and discussed. The students will prepare one informal lecture presentation to practice those technical concepts covered in this block of instruction.

### **BLOCK II – INSTRUCTIONAL DEVELOPMENT**

Techniques learned in this block are applied to the instructional system development process. This process teaches the instructor how to develop and maintain a quality course. Development of criterion instructional objectives set the stage for standardized instruction. Development of effective measurement devices is covered and practiced. Test administration, control and security procedures are also covered in detail. In addition, general concepts of being an instructor supervisor will be covered. Students will be required to prepare and present four different presentations: three informal lectures and one demonstration/performance lecture.

## **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.

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.*

<b>COURSE NUMBER</b>	<b>COURSE NAME</b>	<b>LENGTH</b>
L3AQR1720230SRB (MASL D172023)	Intelligence, Surveillance and Reconnaissance (ISR) Fundamentals	5 Weeks
<b>STUDENT LOAD:</b> 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	8 Weeks
<b>STUDENT LOAD:</b> MIN: 31		MAX: 44

**1. Course Description:** This course is designed for security forces personnel of any branch charged to protect key resources in the field needed to sustain air operations during peacetime or contingencies. Training includes concepts and principles/threat spectrum, the handling of prisoners of war, and law of armed conflict, tactical communications, night training and elementary night movement, patrolling and land navigation, personal hygiene/field sanitation, tactical vehicle deployment, camouflage individual/equipment, listening/observation posts, range determination, warning/operations orders, hand and arm signals, cover and concealment, tactical sentry duties, move under direct fire/move over, through, and around obstacles, weapons training. Students will participate in field training exercises, which simulate patrol and urban defense. This course includes the following blocks of instruction: Air Base Defense Doctrine and Ground Defense Skills Operations.

#### **BLOCK I – AIR BASE DEFENSE DOCTRINE**

Training includes Law of Armed Conflict, Basic Principles of Threat Spectrum, Transition to War, Principles of War, Rear Battle, Stability Operations, Enemy Prisoners of War, Air Base Defense Command and Control, Base Defense Operations Center, Sector Flight Command Post, Delay Withdrawal Operations, Alternate Means of Communication, Field Craft Skills, Team Movement Techniques, Range Cards, Sector Sketches, Range Determination, and Troop Leading Procedures.

#### **BLOCK II – GROUND DEFENSE SKILLS OPERATIONS**

Training includes M-16A-2/M-4 Carbine, M-203 Grenade Launcher, M-240 Machine Gun, M-249 Squad Automatic Weapon, Land Navigation, Patrolling, Establishing a Defensive Fighting Position, Radio and Wire Communications, Night Vision Devices, Built-Up Area Search and Clear Operations, and Convoy Operations.

#### **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 note that students not meeting the minimum physical fitness requirements will be removed from the course. Country managers should ensure that personnel selected to attend this course assess their students' 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.

<b>COURSE NUMBER</b>	<b>COURSE NAME</b>	<b>LENGTH</b>
(MASL D173067) L3AZR1730670SRB	Special Reaction Team	6 Weeks
<b>STUDENT LOAD:</b> 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. Graduates will learn tactics on how to respond to high risk incidents and familiarization with two different weapons systems, concentrating on safety and proper weapon handling techniques. Additional areas of training focus on basic window entry techniques, vehicle and aircraft assault interdiction techniques, and “active-shooter” response procedures. Furthermore, 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**

Training includes use of force, Concepts of Operations, Use of Force Training, Crisis Negotiation Team Concepts of Operations, Intelligence Gathering Techniques, and Contingency Planning.

#### **BLOCK II – SRT TACTICS**

Training includes Rappel Operations, Concepts and Principles of Close Quarters Combat, Vehicle Search and Clear Operations, Aircraft Interdiction, M-9 handgun, M-500 shotgun, M203 grenade launcher, and M-4 carbine.

### **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 note that students not meeting the minimum physical fitness requirements will be removed from the course. Country managers should ensure that personnel selected to attend this course assess their students' 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
<b>STUDENT LOAD:</b> 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.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D179108) L3AZR179108SRA	Cyber Security	2 Weeks
<b>STUDENT LOAD:</b> 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.

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D179113) L3AZR179113SRA	Cyber Networks	3 Weeks
<b>STUDENT LOAD:</b> 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.

**AIRCRAFT AND SYSTEMS TRAINING COURSES**

COURSE NUMBER	COURSE NAME	LENGTH
(MASL D133060) L3AQR1330600SRB	Avionics Communication/Navigation Technician	12 Weeks
<b>STUDENT LOAD:</b> 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 D13119, 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
<b>STUDENT LOAD:</b> 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.

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**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 working 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) L3AZR1412470SRB	Aircraft Hydraulic Systems Technician	12 Weeks
<b>STUDENT LOAD:</b> 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 Familiarization, Hardware, Maintenance Equipment, Basic Hydraulic System and Components, Hydraulic Subsystem Units, Shock Absorbing Devices, Brake Systems, and Wheel Brake Assemblies.

#### **BLOCK I – FAMILIARIZATION**

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 receive instruction on solving equations pertaining to basic pneudraulics and electrical principles, detailed instructions on the use of technical orders, as well as maintenance manuals and illustrated parts breakdown, also the use of Fault Isolation T.O.

#### **BLOCK II – HARDWARE**

This block provides necessary information on the proper selection and care of hand tools and detailed instruction on the use of torque wrenches, calipers, and micrometers, allowing students to determine allowable tolerances of components. Students will receive instruction on safety devices and demonstrate proper safety procedures, learn to identify hydraulic fittings, seals, hydraulic fluids and lubricants used on aircraft pneudraulics systems. They will be instructed in the operation of an open-and-close hydraulic system. Additionally, students will manually fabricate flare tubing and a medium pressure hose assembly.

#### **BLOCK III – MAINTENANCE EQUIPMENT**

This block provides students with the fundamentals and operation of shop equipment, aircraft jacks and maintenance stands. They learn to interpret support equipment schematics on the MJ-2A-1 hydraulic test stand. They also learn to operate and adjust an MJ-2A-1 hydraulic test stand to support aircraft hydraulic systems and sub-systems operational checkouts. Finally, students will operate and adjust pressure output to service aircraft pneumatic systems.

#### **BLOCK IV – BASIC HYDRAULIC SYSTEM AND COMPONENTS**

This block concentrates on the description and theory of operation of basic hydraulic system components. Items covered in the block include: hydraulic reservoirs, hydraulic pumps, pressure regulators, filters, accumulators, actuating cylinders, and hydraulic motors. Students will accomplish overhaul procedures on the Accumulator.

**BLOCK V – HYDRAULIC SUB-SYSTEM UNITS**

During this block students will learn to use schematics and state the purpose of control valves; explain the operation of a hydraulic fuse, flow regulator, and a hydraulic flow equalizer. They will explain the purpose and operation of a pressure-reducing valve, methods for controlling sequencing valves and hydraulic system sequencing, as well as calculate three pressure settings for relief valves, and flow control, directional control, selector and flow, and sequence valves.

**BLOCK VI – HYDRAULIC SYSTEMS**

Using schematics, students will learn the theory of operation of the A-37 hydraulic and C-130 hydraulic system and subsystems. They will perform an operational check of the hydraulic system and subsystems. Students will perform an operational check of the hydraulic system and the landing gear sub-system of the A-37B aircraft. This block also covers the theory of operation of the C-130 landing gear hydraulic sub-system. They will also receive instruction on the system and subsystem arrangement and operations. Students will describe and perform functional checks of the primary flight control system using the C-130 mock-up and perform a functional check of the secondary flight control system of an A-37B aircraft. Also they will perform Fault Isolation procedures, with the C-130 T.O.

**BLOCK VII – SHOCK ABSORBING DEVICES AND BRAKE SYSTEM**

This block covers construction of the landing gear shock struts and servicing procedures, the student will perform the measurement on the Strut using the “Dimension X”. Students learn general procedures for disassembly, inspection and reassembly a shimmy damper, perform an operational check of a nose wheel steering sub-system, and explain the operation of each sub-system. Instruction is also provided on the independent power boost brakes, slave brake sub-systems and brake anti-skid system. They will learn general bleeding procedures for Independent Brake System and Brake Boost and Power Brake Sub-systems.

**BLOCK VIII – WHEEL BRAKE ASSEMBLIES**

Here students will learn component breakdown and operation of the shoe, multiple discs, segmented rotors and spot disc brake assemblies. Students will identify segmented rotor brake components and its common malfunctions. Perform overhaul of a Brake assembly.

**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) L3AAR141249SRA	Aircraft Maintenance Superintendent	10 weeks
<b>STUDENT LOAD:</b> 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
<b>STUDENT LOAD:</b> 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
<b>STUDENT LOAD:</b> 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 Heading 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

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 D141254) L3AQR1412540SRB	Aircraft Electrical Fundamentals Technician	12 Weeks
<b>STUDENT LOAD:</b> 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
<b>STUDENT LOAD:</b> 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(MASL D141090)	Turboprop Technician	11 Weeks
<b>STUDENT LOAD:</b> 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
<b>STUDENT LOAD:</b> 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.

<b>COURSE NUMBER</b>	<b>COURSE NAME</b>	<b>LENGTH</b>
(MASL D141282) L3AZR1412820SRC	Corrosion Control Technician	6 Weeks
<b>STUDENT LOAD:</b> 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 Program, Corrosion Removal and Corrosion Treatment, 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
L3AAR1413040SRB (MASL D141304)	Advanced Helicopter Crew Chief	8 weeks
<b>STUDENT LOAD:</b> 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
(MASL D141387) L3AZR1413870SRB	J-85 Engine Technician	10 Weeks
<b>STUDENT LOAD:</b> MIN: 4                      MAX: 10		

**1. Course Description:** This course is designed to provide advanced training on the Turbojet engine for engine specialists. Graduates will learn in-shop training, intermediate depot level maintenance, compressor balancing, inspection and repair procedures on the engine, its components, and its sub-systems. They will receive training which provides familiarization with engine operation, engine inspection techniques, and rigging procedures, field level disassembly, compressor repair, total reassembly of the engine and accessories. The course instruction includes the following Main Engine Sections, Engine Systems, Engine Teardown, Compressor Repair, and Engine Build-Up.

#### **BLOCK I – TURBOJET MAIN ENGINE SECTIONS**

The students will learn an in depth description and the Turbojet main engine sections.

#### **BLOCK II – TURBOJET ENGINE SYSTEMS**

Student will receive a complete description of the engine's subsystems, and troubleshooting techniques.

#### **BLOCK III – TURBOJET ENGINE TEARDOWN**

Students will perform a complete engine teardown and learn important procedures on inspecting engine components.

#### **BLOCK IV – TURBOJET COMPRESSOR REPAIR**

The students will disassemble and repair the engine compressor and complete a full inspection of all stages of compression with special shop equipment.

#### **BLOCK V – TURBOJET ENGINE BUILD-UP**

The student will apply all items learned during the course and completely rebuild the engine with all sub-assembly and all perform rigging check procedure.

### **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
(MASLD141396) L3AZR1413960SRB	Aircraft Structural Maintenance Technician	12 Weeks
<b>STUDENT LOAD:</b> 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.

## **COURSES IN DEVELOPMENT**

**Courses below are scheduled for development in 2015 and will be added to the 2016 catalog once curriculum and instruction dates have been approved.**

Cargo Transport Aircraft Technician  
Basic Engine Course



## **The IAAFA Mission**

Fostering enduring Inter-American engagement  
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