

Operations

ANG FORMAL OPERATIONS FLYING TRAINING PUBLICATIONS

COMPLIANCE WITH THIS INSTRUCTION IS MANDATORY

NOTICE: This publication is available digitally on the NGB-SDP WWW site at <http://www.ngbpcdc.ngb.army.mil>.

OPR: ANG/DOOT (Lt Col Thomas K. Saxe)
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This instruction establishes a command specialized publications system for issue of ANG formal operations training publications in formal aircrew training courses and authorizes printing and duplication of documents. It provides standardized formats for syllabi and applies to all persons who prepare, manage, review, approve, or use ANG formal operations training publications and related documents. Send recommended changes or comments to ANG/DO, 1411 Jefferson Davis Highway, Arlington VA 22202-3231, through appropriate channels using AF Form 847, **Recommendation for Change of Publication**.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

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Chapter 1

PROGRAM DESCRIPTION

1.1. Purpose and Intended Users: ANG formal training syllabi are specialized publications authorized for use by ANG/DO.

1.1.1. An ANG formal training syllabus prescribes the overall training strategy and the appropriate amount of instruction necessary for a student having the entry prerequisites to achieve the syllabus goals and to develop the proficiency in specified course objectives required for graduation.

1.1.2. Syllabi are used by training managers at all levels as a reference for conducting courses. Instructors and students use a syllabus as a single source document to determine specific training guidance, objectives and content. Syllabi are also used by HQ staff agencies to plan, program, and budget for manpower, funding, and materials.

1.1.3. ANG Formal Training Units (FTU) will use ANG/DO approved syllabi. If an ANG/DO approved formal syllabus does not exist, ANG FTUs may use active-duty, or other suitable syllabi with ANG/DO approval.

1.1.4. Units tasked to implement formal training syllabi must ensure that each graduate possesses the skills, knowledge, and levels of proficiency set forth in the course objectives or training standards. The level of instruction and amount of training devoted to elements, events, subjects, or modules should be adjusted to meet the needs of the individual students within constraints set forth by the syllabus and other applicable directives.

1.2. Approval Authority: Authority for approval of ANG formal operations training syllabi is ANG/DO.

1.3. Office of Primary Responsibility: The Office of Primary Responsibility (OPR) for an ANG formal training syllabus is the unit that manages the training program for the weapons system that the syllabus supports.

1.4. Office of Primary Development Responsibility: (OPDR): The Office of Primary Development Responsibility (OPDR) for an ANG formal training syllabus is the office within the OPR unit which actually develops the syllabus. This responsibility is normally delegated to an operations training division. The OPDR uses instructional systems development (ISD) or locally developed procedures to prepare, test, and validate the syllabus.

1.5. Format and Numbering: Format and content guidance for ANG formal flying training syllabi is in Attachment 2. Syllabi will be numbered on the cover page with the course numbers they contain. Course prerequisites will be forwarded by the OPDR for inclusion into the *Education and Training Course Announcements*.

Chapter 2

FTU SYLLABUS DEVELOPMENT, COORDINATION, and APPROVAL

2.1. Development: A syllabus is prepared for each formal flying training course conducted by the ANG.

2.1.1. For a new or revised syllabus of training, the OPR will furnish the OPDR with updated information pertinent to syllabus development. This includes desired capability/status of graduates, limiting factors, and desired implementation. The OPDR will then develop the syllabus using these criteria.

2.1.2. Terminology should be standard in training documents of similar weapons systems. Fighter aircraft training will use the following phases and mission types; specialized training not listed remains unchanged and is found in applicable AFIs.

2.1.2.1. Transition Phase:

2.1.2.1.1. Transition (TR)

2.1.2.1.2. Instruments (INST)

2.1.2.1.3. Formation (FORM)

2.1.2.1.4. Aircraft Handling Characteristics (AHC)

2.1.2.2. Air-to-Air Phase:

2.1.2.2.1. Basic Fighter Maneuvers (BFM)

2.1.2.2.2. Air Combat Maneuvers (ACM)

2.1.2.2.3. Air Combat Tactics (ACT)

2.1.2.2.4. Dissimilar (D)

2.1.2.2.5. Intercept (INT)

2.1.2.3. Surface Attack Phase:

2.1.2.3.1. Surface Attack (SA)

2.1.2.3.2. Surface Attack Tactics (SAT)

2.1.2.4. Air Refueling Training (AR)

2.1.2.5. Low Altitude Step Down Training (LASDT)

2.1.3. The distribution page of all syllabi will be prepared using the format in Attachment 3. Recipients will be listed in the following order: all ANG units alphabetically by base name, then any other commands alphabetically by name. International training syllabi will not contain distribution lists.

2.2. Coordination: For new or revised syllabi, the coordination procedure will be initiated by the OPR who will forward proposed syllabi to ANG/DOOT. For “common” (coordinated joint use AETC or ACC and ANG) syllabi, ANG/DOOT will coordinate ANG approval for ANG/DO signature.

2.2.1. The OPR will forward copies to other affected agencies with suspense dates for their reply. The OPR will then review comments and suggested changes and direct the OPDR to prepare the final copy for print.

2.2.2. The OPR obtains final approval from ANG/DO and distributes the syllabus as required.

2.3. Approval of Syllabi: ANG/DOO may request briefings from the OPR to clarify extensive revisions or new syllabi. This is optional and not normally required.

Chapter 3

ADMINISTRATIVE PRACTICES

3.1. Currency: Individual users are responsible for maintaining the currency of their syllabi. Revisions or changes will automatically be sent to those agencies on the distribution list. All users may validate the currency of their syllabi by contacting the OPR.

3.2. Record Sets and Historical Files: The OPR will maintain a historical file of obsolete syllabi for each course for a period of at least two years.

3.3. Review Requirements: Unrevised syllabi will be reviewed for currency by the OPR at least every two years.

3.4. Minor Changes: Minor revisions (not affecting course length, student sorties requirement, or costing) and administrative changes do not require approval of ANG/DO. Changes will be published and distributed with a cover letter of explanation to all users.

Chapter 4

SYLLABUS RELATED DOCUMENTS

4.1. Introduction: Although not designated as specialized publications, there are several types of printed or reproduced documents related to syllabi. These documents support ANG formal operations training courses and may be used by operational units as reference materials. This chapter provides management guidance for these syllabi related documents. Authorized types include, but are not limited to:

4.1.1. Phase Guides. These documents generally pertain to the tasks, objectives, and goals of the phases of training they encompass. These phase guides present techniques and procedures to help students achieve desired proficiency levels.

4.1.2. Textbooks. These documents are used during the study of a particular subject or subjects in the academic environment. They are known variously as academic texts, instructional texts, reference guides, or lesson guides.

4.1.3. Guides and Workbooks. These documents are learning aids that provide information to support other instructional methods or exercises on selected topics. Examples are: study guides, briefing guides, workbooks, or supporting media.

4.2. OPRs and OPDRs: The OPR for syllabus related documents is the unit tasked to implement the associated syllabus. The OPDR is the office within the OPR unit that actually develops the syllabus related documents.

4.3. Format: The cover and contents of syllabus related documents will be designed and organized in a format consistent with the applicable course of instruction and the purpose/type of the particular document.

4.4. Administrative Practices: Although syllabus related documents are not designated as specialized publications, they will be administered in much the same way. The OPR is responsible for developing documents deemed necessary and for ensuring that the documents are appropriately coordinated. These documents do not require approval above the unit level.

4.4.1. All documents will be reviewed for adequacy and at least once every two years. Changes may originate with the OPR, by suggestions of the users, or by direction from higher headquarters. Changes will be coordinated and implemented using unit standard publication change procedures.

4.4.2. Users are responsible to maintain currency of their syllabus related documents. Revisions and changes will automatically be sent to those agencies on the distribution lists. All users may validate the currency of documents by contacting the OPR.

Chapter 5

CLASSIFIED PUBLICATIONS AND DOCUMENTS

5.1. Procedures: Classification, marking, storage, transmission, receipting, and accountability procedures outlined in all applicable AFIs are applicable to publications and documents developed, reproduced, and issued under the authority of this instruction.

5.2. Issuance: **Classified publications and documents issued to students in formal syllabus training are organizational property, not the property of the student. Students requiring such material upon course completion will request the school to forward it to their assigned unit.**

DANIEL JAMES III, Lieutenant General, USAF
Director, Air National Guard

OFFICIAL

DEBRA N. LARRABEE, Colonel, USAF
Chief, Support Services

Attachment 1
GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

Abbreviations and Acronyms

ACM - Air Combat Maneuvers

ACT - Air Combat Tactics

AHC – Aircraft Handling Characteristics

AR - Air Refueling Training

BFM - Basic Flight Maneuvers

CBT – Computer Based Training

D - Dissimilar

ECL - English Comprehension Level

FORM - Formation

FTU – Formal Training Unit

INST - Instruments

INT - Intercept

ISD - Instructional Systems Development

LASDT - Low Altitude Step Down Training

OPR - Office of Primary Responsibility

OPDR - Office of Primary Development Responsibility

SA - Surface Attack

SAT - Surface Attack Tactics

SET - Specialized English Terminology

SSR - Student Sorties Requirement

TR - Transition

Terms

Syllabus -a directive that outlines a course of instruction.

Attachment 2

SYLLABUS FORMAT AND CONTENT

A2.1. General Organization: Due to the large number of ANG syllabi in use, it is necessary that a standardized format be used to easily compare certain features of the courses. The following general organization is mandatory. Addenda, additional chapters, or sections are authorized if necessary to accommodate the requirement of a particular course. Charts and tables in this attachment are for example only and not regulatory in nature. They are to be used as guidelines for general formatting purposes.

<u>Chapter/Section</u>	<u>Page</u>
Cover Page	N/A
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Table of Contents	ii
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Chapter 2 - Course Management	2-1
Chapter 3 - Academic Training	3-1
Chapter 4 - Device Training	4-1
Chapter 5 - Flying Training	5-1
Chapter 6, etc. - (as required)	6-1, etc.
Attachments - (as required)	A1-1, etc.

A2.1.1. Cover Page. This page readily identifies the document by command, course types/numbers, and weapons system involved. A distinctive cover, similar to Attachment 3 is required. The cover also establishes the authenticity of the publication and the OPR.

A2.1.2. Summary of Changes. (page i): Purpose and content is the same as standard publications.

A2.2. Table of Contents. (page ii): Use general organization example as a guide. Add sections/paragraph titles as needed to direct readers to pertinent material. See page 14.

A2.3. Distribution Listing. (page iii): Use "D" distribution.

A2.4. Standard and Non-Standard Abbreviations. (page iv)

A2.5. Chapter 1, COURSE ACCOUNTING. This chapter is used for rapid reference to the dimensions of the courses prescribed by the syllabus. Mandatory sections are:

A2.5.1. SECTION A. COURSE DESCRIPTION. Include separate paragraphs for course title, course entry prerequisites, purpose and status upon completion, location of training, duration (training days, ground, flying). See page 15.

A2.5.2. SECTION B. FLYING INVENTORY. Use a matrix charts to show student sorties and hours, direct/indirect support sorties and hours, and other support sorties per student. Show totals by phases or module and grand totals for the course. Also, for cost accounting, show the student sorties requirement (SSR). SSR is the total number of sorties required for a student to complete the syllabus. It includes student sorties, direct support sorties, indirect

support sorties, and re-fly rate sorties. Re-fly rates are obtained from historical or forecast data maintained by the syllabus OPR. See page 17.

A2.5.3. SECTION C. TRAINING DEVICE INVENTORY. List sessions and hours by major devices of instruction and totals. See page 18.

A2.5.4. SECTION D. ACADEMIC INVENTORY. List sessions and hours by categories of lectures, computer based training, workbooks and specialized training. See page 18.

A2.5.5. SECTION E. WEAPONS INVENTORY. Use a matrix or chart to show munitions and range requirements. List student range sorties and support sorties per student showing range type (and if manned or unmanned). Show student/support munitions per student by type, per sortie, and totals. See page 19.

A2.6. Chapter 2, COURSE MANAGEMENT. There are three mandatory sections in this chapter.

A2.6.1. SECTION A, COURSE TRAINING STANDARDS. Training standards are the minimum performance levels required to progress through and/or graduate from the course. Syllabus developers should present this information in the most convenient way that is compatible with course design and the chosen instructional/progression strategy. As a minimum, the end-of-course standard for flying tasks will be identified in terms of proficiency levels. Reference to additional criteria is permissible if it is explained and provided or referenced. Academic course training standards must also be identified here or through reference to another source or part of the syllabus.

A2.6.1.1. General Instructions. This section describes the general guidelines used in managing the overall course.

A2.6.1.2. The following special instructions will be included verbatim in all ANG formal flying training syllabi:

A2.6.1.3. "Approval Authority: ANG/DO is the approval authority for this syllabus"

A2.6.1.4. "Graduation Requirement: Graduation for this course requires the effective completion of the training prescribed by the syllabus"

A2.6.1.5. "Commander's Authority: The unit commander is responsible for conducting the training specified under the authority/direction of this syllabus. Unit commanders/OGs have waiver authority and may authorize deviations in training to meet special weather and peculiar local conditions consistent with good training management, student progress, and student experience level."

A2.6.1.6. Course Flow. This section shows recommended and/or required order of training, sequencing, time phasing, and prerequisites of phases, blocks, modules, sorties, sessions, lessons, etc. Course maps supported by appropriate descriptive commentary and symbology keys will be used to present this information (see pages 20 and 21). If standard symbols are insufficient, symbols unique to a particular weapons system may be used.

A2.6.2. Type Training, Chapters 3,4,5. The purpose of these chapters is to provide a synopsis of academic, device, and flying training. The chapters should contain special instructions, if needed, to give further guidance strategy, limitations, ROE, etc., not

contained in other parts of the syllabus. Use sections/subsections to provide general descriptions of each individual lesson, session, or sortie, by phase, block, or module of instruction. These descriptions should be in logical sequence and be formatted similarly in all three chapters. See examples, pages 22 and 23. Each lesson, session, and sortie description should show an alphanumeric identifier and the nominal time required to complete. The following additional information is required by the type of training. **NOTE:** Other chapters with additional syllabus information may be included if appropriate.

A2.6.2.1. Chapter 3, Academic Training. Indicate lesson title, a brief description/overview of the lesson content, facilities requirements (classroom, learning center, etc.), instructional media (workbook, CBT, lecture, etc.) and any unique instructor requirements. (example - page 22)

A2.6.2.2. Chapter 4, Device Training. Indicate training device hardware requirements, instructor/student ratios, and a brief title as well as succinct narrative of mission profiles/tasks. (example - page 23)

A2.6.2.3. Chapter 5, Flying Training. Indicate aircraft numbers, configurations, instructor/student ratios, as well as crew requirements per aircraft. Use of locally developed configuration codes is authorized. Show munitions requirements by quantity and type. Mission profiles should contain specific mission objectives as well as a comprehensive list of mission tasks to be accomplished during the sortie.

A2.6.3. Additional Chapters, Attachments, Addenda. In all syllabi, Chapters 1 through 5 are reserved for the materials described above. Subsequent chapters, attachments, or addenda are authorized, if needed, and may be titled as appropriate. Multi-course/track syllabi are permitted. In these cases, the OPDR is responsible for designing a presentation scheme that allows ready identification of the information required by this attachment for each course or track.

Attachment 3
SAMPLE SYLLABUS

Department of the Air Force
Headquarters U.S. Air Force
Washington D.C. 20330

ANG SYLLABUS F16A/C00BG
October 1999

AIR NATIONAL GUARD
HYBRID
BASIC TACTICAL TRAINING COURSE
F-16A/B/C/D
October 1999

INTRODUCTION

This syllabus reflects the general nature of the training required to enable graduates to achieve the standards of proficiency established in this course. It prescribes the overall plan of instruction and the approximate time required for the average student to attain the required proficiency in individual subjects. The level of instruction and time devoted to the individual elements, events and subjects of phases should be adjusted, as required, to meet the needs of the individual students.

Instructions governing publication and revision of ANG syllabi are contained in ANGI 10-100 and the 162nd FW OG OOI 11-403.

OFFICIAL

MARK E. DOUGHERTY, COL, USAF
Director of Operations

OPR: 162nd FW OG/CC
OPDR: 162nd FW OG/OST
Distribution: D

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CHAPTER 1**COURSE ACCOUNTING****SECTION A. COURSE DESCRIPTION****1-1. Course Title:**

Air National Guard International Hybrid Basic Tactical Training Course, F16A/C00BI, dated March 2000.

1-2. Course Entry Prerequisites:

- a. Graduate of an approved military pilot training course. Additionally, a recognized statement stating the pilot is certified in high performance jet fighter aircraft.
- b. English Comprehension Level (ECL) of 85. Specialized English Terminology (SET) training required.
- c. Centrifuge training complete before class start date.
- d. Physiological training completed and valid through the end of the course.
- e. Maximum number of students enrolled per class limited to four (4) per training squadron.
- f. Pilots not meeting entry requirements will require a waiver from ANG/DO to enter this course.

1-3. Purpose and Status Upon Completion.

This course will provide academic and flying training required for basic tactical qualification for international pilots. Training for Transition (TR), Basic Fighter Maneuvers (BFM) and Air Combat Maneuvering (ACM) will be accomplished in the F-16A/B. Students will then accomplish an abbreviated F-16A/B to F-16C/D conversion phase and then complete Intercept (INT), Air Combat Tactics (ACT), Low Altitude Stepdown Training (LASDT), Surface Attack (SA) and Surface Attack Tactics (SAT) training in the F-16C/D. Students will receive an Instrument/Qualification check and a Mission Check in accordance with applicable AFIs, ANGIs and local OGV guidance. At the completion of this course the pilot will have training in the air-to-air tasks and atasks. The pilot will be qualified in LOWAT Category I and Air Combat Training (ACBT).

1-4. Location:

162FW, Tucson, Arizona

1-5. Duration:

150 Training Days

1-6. Amount:

<i>Categories of Training</i>	<i>Sessions / Sorties</i>			<i>Hours</i>			<i>Total</i>	
	<i>A/B</i>	<i>C/D</i>	<i>Generic</i>	<i>Total</i>	<i>A/B</i>	<i>C/D</i>		
Academic Training Sessions	-	-	-	0	-	-	-	0.0
Aircrew Training Device Sessions	0	0	0	0	0	0	0	0.0
Student Sorties	29.0	40.0	-	69.0	35.0	53.6	-	88.6
Direct Support Sorties	20.0	33.5	-	53.5	22.0	45.2	-	67.2
Indirect Support Sorties	6.0	10.5	-	16.5	6.0	13.0	-	19.0
Tanker Support	-	-	-	-	1.0	0.5	-	1.5

SECTION B. FLYING INVENTORY

Student Data					Support Data				Remarks
Training Sortie	"A"	"B"	Sorties	Hours	Direct Support		Indirect Support		
					Sorties	Hours	Sorties	Hours	
Transition Phase									
TR-1		1	1	1.5					Intro air work
TR-2		1	1	1.5					Intro instruments
TR-3	2		1	1.5	1	1.5			Solo
TR-5	2		1	1.5	1	1.5			Inst/Qual Check
			4.0	6.0	2.0	3.0			
Air-to-Air Phase									
BFM-2	2		1	1.0	1	1.0			Practice Offensive
BFM-5	2		1	1.0	1	1.0			Prof Defensive
BFM-7	2		1	1.0	1	1.0			Prof Hi Aspect
(D)ACM-2	3		1	1.0	1	1.0	1	1.0	Intro Defensive
(D)ACM-3	3		1	1.0	1	1.0	1	1.0	Intro Hi Aspect
INT-3	3		1	1.5	1	1.5	1	1.5	Intro Elem
INT-4	2		1	1.5	1	1.5			Prac Elem
INT-5	2		1	1.5	1	1.5			Prac Elem/Intro BVR
(D)ACT-1	4		1	1.0	1	1.0	2	2.0	OCA
(D)ACT-2	4		1	1.0	1	1.0	2	2.0	DCA
			10.0	11.5	10.0	11.5	7.0	7.5	
Air-to-Surface Phase									
SA-2	2		1	1.3	1	1.3			Prac Cont Rng
SA-4R	1	1	1	1.3	0.5	0.7			Intro Sys Del
SA-7	2		1	1.3	1	1.3			Prof Cont Rng
SAT-6	3		1	1.3	1	1.3	0.5	0.7	Intro 4-ship
SAT-7	3		1	1.3	1	1.3	1	1.3	Prac 4-ship
			5.0	6.5	4.5	5.9	1.5	2.0	
Air Refueling Phase									
AR-2				0.5		0.5		0.5	Flown w/ BFM-7
			0	0.5	0	0.5	0	0.5	

GRAND
TOTALS

ACFT		STUDENT		DIRECT		INDIRECT		TANKER	
RQMTS		F-16A/B		F-16A/B		F-16A/B		SUPPORT	
"A"	"B"	Sorties	Hours	Sorties	Hours	Sorties	Hours	Sorties	Hours
42	3	19.0	24.5	16.5	20.9	8.5	9.5	0	0.5

SSR = 48.4 (Student Sorties + Direct Sorties + Indirect Sorties + 10% {162 FW} Refly Rate)

SECTION C. TRAINING INVENTORY

<i>Aircrew Training Devices</i>	<i>Sessions</i>				<i>Hours</i>			
	<i>C/D</i>	<i>Generic</i>	<i>Total</i>	<i>A/B</i>	<i>C/D</i>	<i>Generic</i>	<i>Total</i>	
Emergency Procedures Trainer (EPT)	-	-		0				0.0
Computerized Mission Planning (CMP)				0				0.0
Cockpit Familiarization Trainer (CFT)				0				0.0
Part Task Trainer (PTT)				0				0.0
Unit Training Device (UTD)				0				0.0
Operational Flight Trainer (OFT)				0				0.0
Totals	0	0	0	0	0	0	0	0.0

SECTION D. ACADEMIC INVENTORY

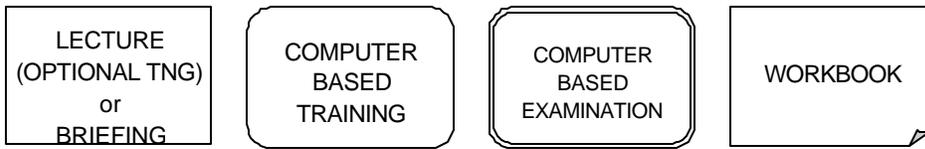
<i>Categories of Academic Training</i>	<i>Sessions</i>				<i>Hours</i>			
				<i>Total</i>				<i>Total</i>
Lectures				0				0.0
Computer Based Training				0				0.0
Workbooks				0				0.0
Specialized Training				0				0.0
Totals				0				0.0

SECTION E. WEAPONS INVENTORY

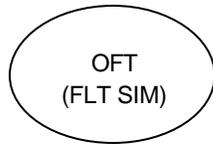
STUDENT MUNITIONS								SUPPORT MUNITIONS						ADMIN		
Sortie	AIM-9	Chaff		BDU		20	AIM-9	Chaff		BDU		20	M-Con	U-Tac		
	AMD		Flares	33	50	MM		AMD		Flares	33	50			MM	
AIR-TO-AIR TRAINING PHASE																
BFM-2	1						1		30	30						
BFM-5	1		30	30			1									
BFM-7	1	1	30	30			1	1	30	30						
(D)ACM-2	1		30	30			2		60	60						
(D)ACM-3	1	1	30	30			2	2	60	60						
INT-3	1	1	30	30			2	2	60	60						
INT-4	1	1	30	30			1	1	30	30						
INT-5	1	1	30	30			1	1	30	30						
(D)ACT-1	1	1	30	30			3	3	90	90						
(D)ACT-2	1	1	30	30			3	3	90	90						
AIR-TO-SURFACE TRAINING PHASE																
SA-2					6		125				6		125	2		
SA-4R					6		125				3		63	1.5		
SA-7					6		125				6		125	2		
SAT-6	1	1	30	30	6		2	2	60	60	6			2		
SAT-7	1	1	30	30	6		2	2	60	60	6			2		
TOTALS	12	9	330	330	30	0	375	21	17	600	600	27	0	313	5.5	4

Syllabus Totals

WEAPONS INVENTORY						ADMIN	
Air-to-Air				Air-to-Surface		Ranges	
AIM-9	AMD	Chaff	Flares	BDU	20 MM	Sorties / Student	
		RR-188	M-206	33D/B	PGU-27A/B		
		ZE81A	F061A	ZP61A	Z20AD	M-CON	U-TAC
33	26	930	930	57	688	5.5	4



Classified lessons are indicated by BOLD Font and Borders



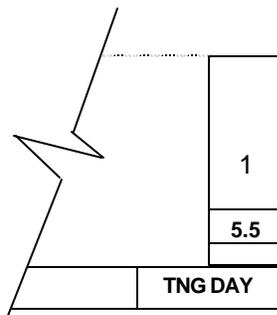
Indicates next Training Event



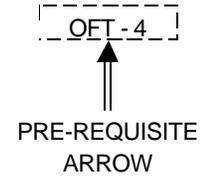
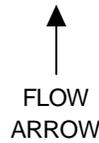
Indicates **TNG DAY** flow continues

COURSE CONNECTOR

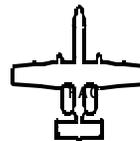
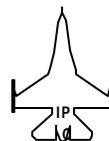
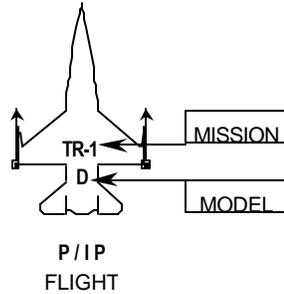
AIRCREW TRAINING DEVICES



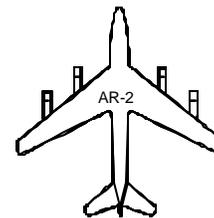
Indicates the Training Day's total number of hours scheduled for **Aircrew Training Devices and Academic Training Sessions**



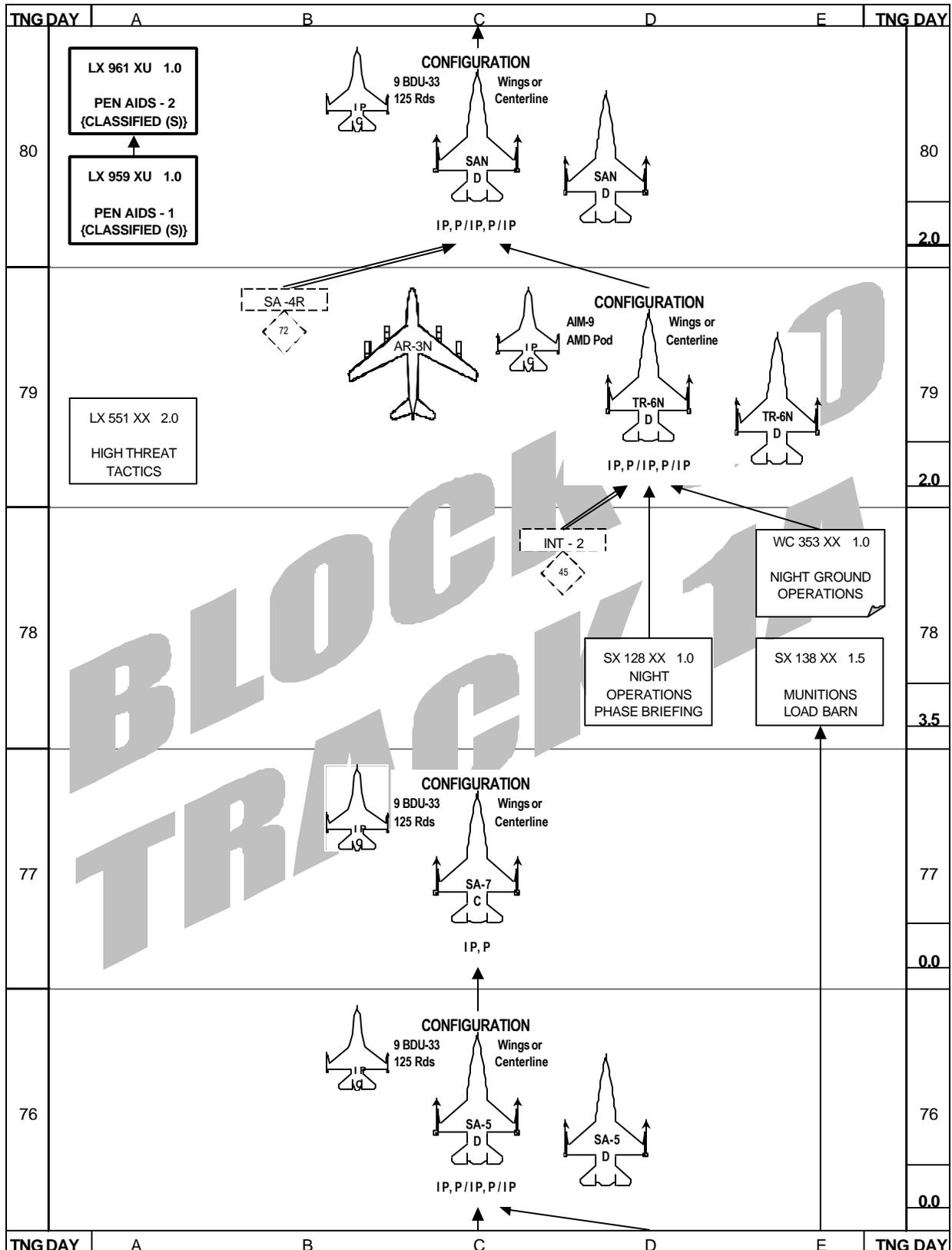
CONFIGURATION



SUPPORT AIRCRAFT



LARGE AIRCRAFT INDICATES
SMALL AIRCRAFT INDICATES SUPPORT



SECTION B. LECTURES (L)

SECTION B. LECTURES (L)**3-6. Lectures for the F-16A/B:**

LA 009 ZX	Fire Control and Navigation Panel (FCNP)	1.0
LA 011 ZX	Communication, Navigation, Identification (CNI)	1.0
LA 021 ZX	Stores Management System (SMS)	1.5
LA 027 ZX	Heads Up Display (HUD) and Combined Altitude Radar Altimeter (CARA)	1.5
LA 031 ZX	Inertial Navigation System Basics and Alignment Procedures	1.5
LA 045 ZX	Hydraulic and Landing Gear System Malfunctions	2.0
LA 061 ZX	Fuel System	2.0
LA 063 ZX	Fuel System Malfunctions and Emergencies	1.0
LA 067 ZX	Electrical System Normal Operations	1.5
LA 069 ZX	Electrical System Malfunctions and Emergencies	2.0
LA 087 ZX	Flight Control System (FLCS)	2.0
LA 089 ZX	FLCS Operational Limitations and Normal Operations	2.0
LA 095 ZX	Normal Checklist Procedures - 1	1.5
LA 097 ZX	Normal Checklist Procedures - 2	1.5
LA 099 ZX	Normal Checklist Procedures - 3	2.0
LA 109 ZX	Lighting System	1.0
LA 117 ZX	Flameout Patterns and Landings	1.5
LA 131 ZX	Instrument Refresher Course: Abnormal Instrument Procedures	1.0
LA 135 ZX	Flight Control System Malfunctions and Emergencies	3.0
LA 143 ZX	PW 220 Emergency Procedures Review	2.5
LA 209 ZX	Air-to-Air Radar	2.0
LA 237 ZX	AIM-9 Missile Employment	1.5
LA 253 ZX	F-16 Gun Employment	1.5

3-7.**LECTURES FOR THE F-16C/D:**

LL 009 5X	Upfront Controls / Communication Navigation IFF - 1	1.5
LL 011 5X	Upfront Controls / Communication Navigation IFF - 2	1.0
LL 013 5X	Upfront Controls / Communication Navigation IFF - 3	1.5
LL 017 5X	Multi-Function Display Set (MFDS)	1.5
LL 021 5X	Master Modes and SMS Operations	1.5
LL 027 5X	Heads Up Display (HUD) and Combined Altitude Radar Altimeter (CARA)	1.5
LL 031 5X	Inertial Navigation System (INS) Basics and Alignment	1.5
LL 035 5X	Global Positioning System (GPS)	1.0
LL 109 XX	Aircraft Lighting System	1.5
LL 117 XX	Flameout Patterns and Landings	1.5
LL 190 XX	Aircraft Systems Differences - Block 10/15 to Block 42	2.5
LL 192 XX	Normal Procedures Differences - Block 10/15 to Block 42	1.5
LL 194 XX	Emergency Procedures Differences - Block 10/15 to Block 42	2.5
LL 209 5X	Air-to-Air Radar - 1	2.0
LL 217 5X	Air-to-Air Radar - 2	2.0

<i>TR-1</i>	
<p>Aircraft: F-16B Crew: P / I P</p>	<p>Time: 1.5 Hours Primary Arm: None Add / Alt Arm: None</p>
<p>Prereqs: EPT-1, CMP-1, OFT-3, SX 112 XX, SX 116 XX, WA 147 ZX</p>	
<p>MISSION OBJECTIVES: Introduce preflight preparation requirements, briefing customs and standards. Validate checklist procedures training to date. Introduce transition air work, SFO patterns and VFR patterns and landings.</p>	
<p>MISSION TASKS:</p> <ol style="list-style-type: none"> 1. Supervised exterior preflight 2. MIL power takeoff 3. Instrument departure 4. FOD check 5. Familiarization maneuvers: <ol style="list-style-type: none"> a. "G" warm-up (90° / 180° turns) / AGSM b. Flight control demonstrations: <ol style="list-style-type: none"> (1) AOA limiter (2) "G" command 6. Proficiency maneuvers: <ol style="list-style-type: none"> a. Aerobatics b. Unusual attitude recovery c. Vertical recovery d. HARTS maneuver #1 e. HARTS maneuver #2 7. VFR straight-in touch and go 8. SFO patterns 9. VFR patterns and landings 	
<p>SPECIAL INSTRUCTIONS: Briefing may start 2.5 hours prior to scheduled takeoff time, IAW squadron policy. Introduce the student to mission data at the operations center desk to include weather sheets, NOTAM data, SOF instructions, FCIF / CAPs requirements and takeoff and landing data books for appropriate aircraft. Establish ground rules for preparation and briefing show times. In the briefing, introduce the student to CAPs review and EP of the day briefing techniques.</p>	