



## DEPARTMENT OF THE NAVY

CHIEF OF NAVAL AIR TRAINING  
CNATRA  
250 LEXINGTON BLVD SUITE 102  
CORPUS CHRISTI TX 78419-5041

Canc frp: Feb 10

CNATRANOTE 1500

N7

12 Mar 2009

### CNATRA NOTICE 1500

Subj: INSTRUCTOR NAVAL FLIGHT OFFICER (INFO) PROGRAM

Ref: (a) CNATRAINST 1542.150  
(b) CNATRAINST 3710.13F  
(c) OPNAVINST 3710.7T  
(d) COMNAVAIRFORINST 4790.2A

1. Purpose. To establish policies and procedures for the training and incorporation of designated Naval Flight Officer (NFO) personnel as Instructor Naval Flight Officers (INFOs) into Chief of Naval Air Training (CNATRA) Strike Pilot Training Squadrons (VT-7, VT-9, VT-21 and VT-22).

2. Scope. This guidance is applicable to Commander, Training Air Wings ONE and TWO, and to designated INFOs assigned to the CNATRA Staff, Training Air Wings (TRAWINGS) ONE or TWO staffs, NAS Kingsville or NAS Meridian, or any of the four Advanced Strike Pilot Training Squadrons in an active duty, Squadron Augmentation Unit (SAU) or Selected Reserve (SELRES) capacity.

3. Policy. The INFO program is designed solely for the purpose of utilizing fleet experienced NFOs as instructors to train in designated areas of the Advanced Strike Pilot training programs at TRAWINGS ONE and TWO.

4. Discussion. CNATRA Instructor Pilots (IPs) have traditionally been the only personnel authorized to train Student Naval Aviators (SNAs) in the flight portion of the Advanced Strike Pilot training pipeline. IPs are designated to various levels of instructor qualifications upon completion of respective levels of the Instructor Under Training (IUT) program delineated in reference (a). Once designated by the TRAWING Commander as an instructor, IPs are eligible to instruct SNAs in the stages of instruction authorized. As IP manning levels within CNATRA, especially in the Advanced Strike Pilot training pipeline, become increasingly difficult to maintain to achieve production capacity, and with the availability of instructor

training billets for fleet NFOs decreasing, CNATRA is introducing a probationary program which will train and designate qualified NFOs to instruct SNAs in the Advanced Strike Pilot training program.

5. Action

a. For CNATRA

(1) Ensure prospective INFO gains are properly screened for high risk training in accordance with reference (b).

(2) Ensure INFO gains complete Flight Instructor Training Course (FITC) in accordance with reference (b).

(3) Publish changes to this Notice as required to publish changes to the INFO program based on process improvements and TRAWING recommendations.

(4) Develop methods to measure INFO effectiveness utilizing Training Integration Management System (TIMS) data mining and analysis.

b. For TRAWINGS ONE and TWO

(1) Enroll INFOs into the T-45C Jet Transition Strike Flight Instructor Training Curriculum. Modifications to the CNATRAINST 1542.150 instruction are published in paragraph 5c.

(2) Events listed in reference (a) but not required for the IUT syllabus shall be waived in TIMS.

(3) INFOs shall instruct in the T-45C only. Class numbers for the T-45A are diminishing and the cost effectiveness to dual train is not optimal. INFOs shall conduct all training and perform instruction from the aircraft's rear cockpit only.

(4) The aim of the INFO program is to train the instructor to effectively teach in only the designated phases of training listed in paragraph 5c. The INFO is not a pilot and therefore shall not be trained to operate the aircraft as a pilot in command of the flight controls. However, due to the high-risk training inherent in the Strike syllabus, an INFO is

expected to be capable of gaining control of the aircraft in the event the SNA becomes incapacitated to either buy time for the SNA to recover sufficiently to pilot the aircraft to a safe recovery, or posture for a controlled ejection.

(5) Per reference (c), a Pilot-in-Command (PIC) of an aircraft is required. INFOs are not authorized to assume duties as the PIC and thus, PIC responsibilities delineated in reference (c) shall rest with the SNA at all times. Reference (d) states clearly that the PIC shall review the Aircraft Discrepancy Book for aircraft discrepancies and corrective actions for at least the 10 previous flights and shall sign block 11 of the Aircraft Inspection and Acceptance Record (OPNAV 4790/141), assuming full responsibility for the safe operation of the aircraft and the safety of the other individuals aboard. Therefore, SNAs shall sign for the aircraft from Maintenance Control during all flights crewed with an INFO.

(6) INFOs shall be designated on the flight schedule as the Mission Commander during all SNA instructional events, and per reference (c), exercise command over a single naval aircraft or formation(s) of naval aircraft and shall be responsible for all phases of the flight mission except those aspects of safety of flight that are related to the physical control of the aircraft that fall within the scope of the PIC.

(7) INFOs shall be designated as Naval Air Training and Operating Procedures Standardization (NATOPS) qualified and hold a valid NFO instrument qualification, per reference (c), in the T-45C prior to designation as an instructor from the TRAWING Commander.

(8) TRAWING Commanders may authorize additional training flights in excess of the IUT curriculum outlined in paragraph 5d. in order to achieve the experience necessary to instruct in the areas delineated in paragraph 5c.

(9) Based on the training flow for SNAs depicted in CNATRANOTE 1542.159, Strike Pilot Combined Training Curriculum, SNAs shall attain a valid instrument rating prior to flying any of the designated sorties in paragraph 5c with a qualified INFO Instructor.

(10) Submit INFO training process improvement recommendations to CNATRA as they develop.

c. SNA events authorized for INFOs to instruct pursuant to completion of the IUT events listed in paragraph 5d are:

- (1) Airway Navigation (AN) 16-18X
- (2) Field Carrier Landing Practice (FCLP) FCLP-3X
- (3) Operational Navigation (ON) 5-8X and 13-14X
- (4) Weapons (WEPS) 9, 10, and 14X
- (5) Tactical Formation (TACFORM) 4-6X
- (6) Air Combat Maneuvering (ACM) ACM-3X and ACM-6X
- (7) Any changes to this list of authorized events

require written permission from CNATRA.

d. INFO IUT Syllabus is modified as outlined below. For all IUT flight events, the INFO shall occupy the rear cockpit only to observe the instructor pilot demonstrate proper stage procedures; understand common student errors; gain familiarity with cockpit displays, functions and switches; and learn the conduct and flow of each designated training stage sortie. The INFO shall occupy the rear cockpit only for all instructional sorties with SNAs once designated by the TRAWING Commander.

(1) MOD 00 - Aviation Student Indoctrination (ASI) in its entirety.

(2) MOD 01 - Academics and Flight Preparation in its entirety.

(a) During CO-7S and CO-8S, INFOs may attempt to fly the simulator; however, piloting skills are not the focus and simulator instructor assistance in placing the aircraft in the correct position, including the simulator freeze function, to allow the INFO to perform the checklist item or achieve the learning objective may be required.

(b) INFOs are not required to don flight equipment for any simulator event in training.

(3) MOD 02 - BI/RI/FAM/FORM Stages

(a) Mod 02-01 through Mod 02-46 and Mod 02-53 conducted in their entirety. INFOs may attempt to fly all simulator events; however, piloting skills shall not be the focus. Intent is to gain an understanding of the different instrument maneuvers and cockpit instrument operations and presentations. Simulator instructor assistance may be required to pilot the simulator to achieve the learning objectives.

(b) Mod 02-47 through Mod 02-52 and Mod 02-54 through Mod 02-61, familiarization procedures, simulators and familiarization flights are waived and shall be waived in TIMS.

(c) Mod 02-62 through Mod 02-64, Out-of-Control flight procedures, simulator and flight shall be conducted in their entirety.

(d) Mod 02-65 is waived, annotate in TIMS.

(e) Mod 02-66 through Mod 02-71 shall be completed in their entirety. Mod 02-71 (IR-01X) shall be annotated as the INFOs Instrument Qualification per reference (c), and endorsements recorded in the NATOPS Jacket and Flight Logbook accordingly.

(f) Mod 02-72 through Mod 02-80 is waived and shall be waived in TIMS.

(g) Mod 02-81 through Mod 02-100 shall be completed in their entirety. Simulator events may be flown by the INFO if the piloting portions do not detract from the learning objectives of each event. Simulator instructor assistance may be required to pilot the simulator to complete all graded items. Flight events shall be conducted from the rear cockpit only and the INFO is to apply all crew resource management techniques, understand each maneuver performed by the instructor pilot, and build familiarity with T-45C performance and operations.

(4) MOD 03, Field Carrier Landing Practice Stage

(a) Mod 03-01 is waived and shall be waived in TIMS.

(b) Mod 03-02 and Mod 03-03 shall be completed in their entirety.

(c) Mod 03-04 through 03-26 are waived and shall be waived in TIMS.

(d) Mod 03-27 shall be completed. During the FCLP-19X, this flight should introduce the INFO to CNATRA FCLPs with emphasis on FCLP course rules to/from the outlying field (OLF) to the maximum extent possible. Although encouraged to flow this IUT event into scheduled FCLPs, the requirement may be fulfilled as a single sortie as necessary.

(e) Mod 03-28 is waived and shall be waived in TIMS.

(5) MOD 04, Basic Instructor Qualification; all portions are waived and shall be waived in TIMS.

(6) MOD 05, Formation and Night Formation Phases; all portions waived and shall be waived in TIMS with the following exceptions.

(a) Mod 05-18 (FORM-16X), 2-ship formation shall be completed to observe the IP flying section formation.

(b) Mod 05-23 (FORM-21X), 4-ship formation shall be completed to observe the IP flying division formation.

(7) MOD 06, Operational Navigation and Weapons Phases. Modified as follows:

(a) Mod 06-01 through Mod 06-06 are waived and shall be waived in TIMS.

(b) Mod 06-07 through 06-11 shall be completed in their entirety.

(c) Mod 06-12 and Mod 06-13 are waived and shall be waived in TIMS.

(d) Mod 06-14 and Mod 06-15 shall be completed in their entirety.

(e) Mod 06-16 is waived and shall be waived in TIMS.

(f) Mod 06-17 through Mod 06-23 shall be completed in their entirety.

(g) Mod 06-24 through Mod 06-27 are waived and shall be waived in TIMS.

(h) Mod 06-28 through Mod 06-33 shall be completed in their entirety.

(i) Mod 06-34 through Mod 06-37 are waived and shall be waived in TIMS.

(8) MOD 07, TACFORM, ON, Out-of-Control (OCF) and ACM Phases. Modified as follows:

(a) Mod 07-01 through Mod 07-08 shall be completed in their entirety.

(b) Mod 07-09 and Mod 07-10 are waived and shall be waived in TIMS.

(c) Mod 07-11 and Mod 07-12 shall be completed in their entirety.

(d) Mod 07-13 is waived and shall be waived in TIMS.

(e) Mod 07-14 through Mod 07-18 shall be completed in their entirety.

(f) Mod 07-19 is waived and shall be waived in TIMS.

(g) Mod 07-20 shall be completed.

(h) Mod 07-21 through Mod 07-31 shall be completed in their entirety.

(i) Mod 07-32 through Mod 07-42 are waived and shall be waived in TIMS.

(j) INFOs shall not instruct in OCF or any post ACM-6X sortie due to the piloting skill sets that are introduced on

nearly every dual flight and the number of solo flights after ACM-6X.

e. Training Hour Summary:

Stage	<u>FLIGHT TRAINING HOURS</u>					
	Total Flights	Total Hours	Dual Flights	Dual Hours	Solo Flights	Solo Hours
BI	2	3.0	2	3.0	0	0
RI	3	4.8	3	4.8	0	0
FAM	0	0.0	0	0.0	0	0
OCF	1	0.6	1	0.6	0	0
NFAM	0	0.0	0	0.0	0	0
AN	2	3.0	2	3.0	0	0
NA	8	11.3	8	11.3	0	0
IR	1	1.5	1	1.5	0	0
FCLP	1	0.6	1	0.6	0	0
TOTAL	18	24.8	18	24.8	0	0

Stage	<u>BASIC INSTRUCTOR QUALIFICATION</u>					
	Total Flights	Total Hours	Dual Flights	Dual Hours	Solo Flights	Solo Hours
FAM						
BI						
RI						
AN						
NFAM						
TOTAL						

No Events in this Block

Stage	<u>ADVANCED INSTRUCTOR QUALIFICATION</u>					
	Total Flights	Total Hours	Dual Flights	Dual Hours	Solo Flights	Solo Hours
FORM	2	3.0	2	3.0	0	0
NFORM	0	0.0	0	0.0	0	0
ON	7	8.8	7	8.8	0	0
WEPS	5	6.5	5	6.5	0	0
TACF	4	4.8	4	4.8	0	0
ACM	6	6.6	6	6.6	0	0
OCF	1	1.0	1	1.0	0	0
TOTAL	25	30.7	25	30.7	0	0

SIMULATOR TRAINING HOURS

Stage	Total Events	Total Hours	OFT Events	OFT Hours	IFT Events	IFT Hours
CO	2	3.0	2	3.0	0	0
EP	3	4.5	3	4.5	0	0
BI	5	7.5	5	7.5	0	0
RI	4	6.0	4	6.0	0	0
FAM	0	0.0	0	0.0	0	0
OCF	1	1.5	1	1.5	0	0
NA	6	9.0	6	9.0	0	0
FCLP	0	0.0	0	0.0	0	0
TOTAL	21	31.5	21	31.5	0	0

BASIC INSTRUCTOR QUALIFICATION

Stage	Total Events	Total Hours	OFT Events	OFT Hours	IFT Events	IFT Hours
BI						
RI	No Events in this Block					
TOTAL						

ADVANCED QUALIFICATIONS

Stage	Total Events	Total Hours	OFT Events	OFT Hours	IFT Events	IFT Hours
FORM	0	0.0	0	0.0	0	0
ONAV	2	3.0	2	3.0	0	0
WEPS	1	1.0	1	1.0	0	0
OCF	0	0.0	0	0.0	0	0
TOTAL	3	4.0	3	4.0	0	0

FLIGHT SUPPORT TRAINING HOURS

JET TRANSITION & BASIC QUALIFICATION FLIGHT SUPPORT

Subject	Symbol	Period	Hours
Course Rules	CR	3	3.5
Aircrew Coordination Training	ACT	1	3.0
NACES	SEAT	1	2.0
Operational Risk Management	ORM	1	1.0
Cockpit Orientation	CO	8	9.4
Emergency Procedures	EMFP	11	14.5
Basic Instruments	BIFP	10	9.5
Radio Instruments	RIFP	5	7.7
Familiarization	FAMFP	0	0.0
Out-of-Control Flight	OCFFP	1	1.0

Night Familiarization	NFAMFP	0	0.0
Formation	FFP	6	6.9
NATOPS/NATOPS Examinations	NATOPS	2	4.0
Instrument Rating	IRFP	3	4.0
Carrier Qualification (FCLP)	CQFP	2	1.5
TOTAL		54	68.0

ADVANCED INSTRUCTOR FLIGHT SUPPORT

Subject	Symbol	Period	Hours
Formation	FFP	0	0.0
Night Formation	NFFP	0	0.0
ONAV Flight Procedures	ONFP	5	5.1
Tactical Formation	TFFP	4	4.7
Weapons	WEPFP	5	4.8
Out-of-Control Flight	OCFFP	2	2.0
Air Combat Maneuvering	ACMFP	5	4.6
TOTAL		21	21.2

ACADEMIC INSTRUCTION HOURS

Subject	Symbol	Period	Hours
Aviation Student Indoctrination	ASI	5	4.3
Engineering	ENG	30	32.8
Aerodynamics	AERO	6	6.5
Instrument Navigation	INAV	12	13.0
ONAV Ground School	ONAV	0	0.0
TOTAL		53	56.6

f. Training Allocation by Module:

MOD	Flight		Simulator		Flt Support		Academics	
	Hours	Events	Hours	Events	Hours	Events	Hours	Events
00	0.0	0	0.0	0	0.0	0	3.3	4
01	0.0	0	3.0	2	13.4	10	53.3	49
02	24.2	17	28.5	19	53.1	42	0.0	0
03	0.6	1	0.0	0	1.5	2	0.0	0
04	0.0	0	0.0	0	0.0	0	0.0	0
05	3.0	2	0.0	0	0.0	0	0.0	0
06	11.3	9	4.0	3	8.5	8	0.0	0
07	16.4	14	0.0	0	12.7	13	0.0	0
TOTAL	55.5	43	35.5	24	89.2	75	56.6	53

g. Module Summary:

MODULE	FLIGHTS	SIMULATORS	FLIGHT SUPPORT	ACADEMICS
00 (Aviation Student Indoctrination)				
				ASI-01- ASI-04

01 (Academic and Flight Preparation)

CO-07S	CR-01	ENG-01-
CO-08S	ACT-01	ENG-30X
	SEAT-01	AERO-01-
	ORM-01	AERO-06
	CO-01-	INAV-01-
	CO-06	INAV-12X
		ASI-05

MODULE	FLIGHTS	SIMULATORS	FLIGHT SUPPORT	ACADEMICS
02 (Instruments/Familiarization/NATOPS Qualification)				

BI-6	EP-01S	EMFP-01-
BI-07X	EP-02S	EMFP-11X
RI-05-	BI-01S-	BIFP-01-
RI-07X	BI-05SX	BIFP-10X
OCF-02	RI-01S-	RIFP-01-
IR-01X	RI-04SX	RIFP-05X
AN-01	EP-03S	CR-02
AN-02	OCF-01S	CR-03X
NA-04-	NA-01S-	CO-09
NA-06	NA-03S	CO-10
NA-08	NA-07S	OCFFP-01
NA-10-	NA-09S	NATOPS-02X
NA-12	NA-13SX	NATOPS-03X
NA-14X		IRFP-01-
		IRFP-03X
		FFP-01-
		FFP-06X

03 (Field Carrier Landing Practice)

FCLP-19X	CQFP-01
	CQFP-02

04 (Basic Instructor Qualification) - No Training in this MOD

05 (Advanced Qualifications)

FORM-16X and FORM-21X

06 (ONAV and Weapons Advanced Qualifications)

ON-05	ON-01S	ONFP-01-
ON-06X	ON-02S	ONFP-03X
ON-08	WEP-05SX	WEPFP-01-
ON-09X		WEPFP-05X
WEP-06-		
WEP-10X		

MODULE	FLIGHTS	SIMULATORS	FLIGHT SUPPORT	ACADEMICS
07 (Out-of-Control Flight and Air Combat Maneuvering)				

TACF-01-		TFFP-01-
TACF-04X		TFFP-04X
ON-11-		ONFP-04
ON-13X		ONFP-05X
OCF-4X		OCFFP-02
ACM-01-		OCFFP-03X
ACM-6X		ACMFP-01-
		ACMFP-5X

h. Time-to-Train Calculations

Training Area		Training Days	Training Weeks	Calendar Weeks
Flight:	55.5 hours 43 events	32.54	6.51	7.25
Simulator:	35.5 hours 24 events	13.92	2.78	3.08
Academics:	56.6 hours 53 events	13.85	2.77	3.08
Flight Support:	89.2 hours 75 events	21.12	4.22	4.84
Curriculum Time (Tc)		81.43	16.28	18.25
* Δt (15%×Tc)		12.21	2.44	2.74
<b>Time-to-Train (Tt) Totals:</b>		<b>93.64 days</b>	<b>18.72 wks</b>	<b>20.99 wks</b>

i. Designation of INFOs as Instructor Training Unit (ITU) Instructors

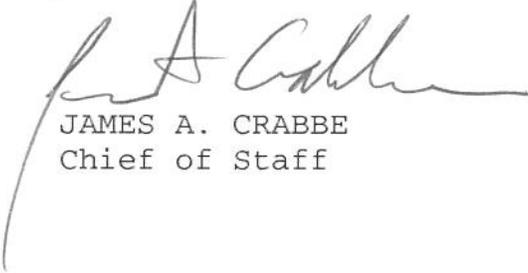
(1) The TRAWING Commander shall be responsible for determining if and when it is appropriate to designate INFOs as ITU Instructors.

(2) Flying with IUTs as a dedicated ITU Instructor is different than instructing SNAs, therefore, based on fleet and Training Air Wing experience, TRAWING Commanders may designate INFOs as ITU Instructors in any area of flight instruction they feel is commensurate with the INFO's skill level. Attention shall be given to provide appropriate upgrade syllabus events in order to obtain the required skill sets that may not have been gained during the original INFO IUT syllabus in order to be an effective ITU Instructor.

(3) ITU Instructor upgrade plans and designations shall be forwarded to CNATRA for information purposes only, designation as an ITU Instructor rests with the TRAWING Commander.

6. Point of Contact within CNATRA for the INFO program is the N7 Strike Pipeline Training Officer.

7. Cancellation Contingency. This Notice shall remain in effect for one year, cancelled by CNATRA 00, or superseded by an updated Notice with the same subject.



JAMES A. CRABBE  
Chief of Staff