

NAVAL AIR TRAINING COMMAND



NAS CORPUS CHRISTI, TEXAS
CIN Q-2D-1194

CNATRAINST 1542.197
21 Apr 2023

CHIEF OF NAVAL AIR TRAINING



ADVANCED MQ-25 NAVAL AIR VEHICLE PILOT TRAINING SYSTEM (NAVPTS) INSTRUCTOR UNDER TRAINING (IUT) MASTER CURRICULUM GUIDE 2023



DEPARTMENT OF THE NAVY
CHIEF OF NAVAL AIR TRAINING
250 LEXINGTON BLVD SUITE 179
CORPUS CHRISTI TX 78419-5041

CNATRAINST 1542.197
N719
21 Apr 2023

CNATRA INSTRUCTION 1542.197

From: Chief of Naval Air Training

Subj: ADVANCED MQ-25 NAVAL AIR VEHICLE PILOT TRAINING SYSTEM
INSTRUCTOR UNDER TRAINING CURRICULUM

1. **Purpose.** To publish the curriculum for Instructor Under Training Air Vehicle Pilot in the Advanced Naval Air Vehicle Pilot Training System (NAVPTS) phase of training.
2. **Action.** This curriculum is effective on receipt. No changes will be made without written authorization by the Chief of Naval Air Training (CNATRA).
3. **Records Management.** Records created as a result of this instruction, regardless of media and format, must be managed per Secretary of the Navy Manual 5210.1 of September 2019.
4. **Review and Effective Date.** Per this instruction, OPNAVINST 5215.17A, CNATRA N7 will review this instruction annually around the anniversary of its effective date to ensure applicability, currency, and consistency with Federal, DoD, SECNAV, and Navy policy and statutory authority using OPNAV 5215/40 Review of Instruction. This instruction will be in effect for 10 years, unless revised or cancelled in the interim, and will be reissued by the 10-year anniversary date if it is still required, unless it meets one of the exceptions in OPNAVINST 5215.17A paragraph 9. Otherwise, if the instruction is no longer required, it will be processed for cancellation as soon as the need for cancellation is known following the guidance in OPNAV Manual 5215.1 of May 2016.
5. **Forms.** The CNATRA forms required by this instruction are automated in the Training Learning Management System (T/LMS) computer program. Additional copies of CNATRA forms are available on the CNATRA Web site <https://www.cnatra.navy.mil/pubs/forms.htm>.


J. RIFAS
Chief of Staff

Releasability and distribution:

This instruction is cleared for public release and is available electronically only via Chief of Naval Air Training Issuances Web site,
<https://flankspeed.sharepoint-mil.us/sites/CPF-CNATRA/SitePages/Publications.aspx>.

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

LIST OF EFFECTIVE PAGES

Original

Total number of pages is 74 consisting of the following:

Page Number

Issue

Letter/(2 blank)
3/(4 blank)
i-ii
iii/(iv blank)
v – x
xi/(xii blank)
xiii – xvi
I-1 – I-6
I-7/(I-8 blank)
II-1 – II-8
III-1/(III-2 blank)
IV-1/(IV-2 blank)
V-1/(V-2 blank)
VI-1/(VI-2 blank)
VII-1 – VII-8
VIII-1 – VIII-6
VIII-7/(VIII-8 blank)
IX-1 – IX-8
IX-9/(IX-10 blank)
X-1/(X-2 blank)

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

TABLE OF CONTENTS

	<u>PAGE</u>
<u>SUMMARY OF CHANGES</u>	iii
<u>COURSE DATA</u>	v
<u>ABBREVIATIONS</u>	ix
<u>GLOSSARY</u>	xiii
 <u>CHAPTER I. GENERAL INSTRUCTIONS</u>	
SYLLABUS MANAGEMENT.....	I-1
TRAINING MANAGEMENT.....	I-1
GROUND TRAINING AND BRIEFING REQUIREMENTS.....	I-2
MISSION GRADING PROCEDURES AND EVALUATION POLICIES.....	I-3
SPECIAL INSTRUCTIONS AND RESTRICTIONS	I-6
ADVANCED MQ-25 NAVPTS IUT COURSE FLOW.....	I-9
 <u>CHAPTER II. GROUND TRAINING</u>	
ADMINISTRATION (ADM01)	II-1
CREW RESOURCE MANAGEMENT (CRM01)	II-2
OPERATIONAL RISK MANAGEMENT (ORM01)	II-3
INSTRUMENT GROUND SCHOOL (IGS)	II-4
CNATRA FLIGHT INSTRUCTOR TRAINING COURSE (FTC01)	II-5
MCS FAMILIARIZATION (MCS).....	II-6
CVN OPERATIONS (CVN01).....	II-7
CARRIER STRIKE GROUP SUPPORT (CSG01).....	II-8
 <u>CHAPTER III. NATOPS TRAINING</u>	
DOES NOT APPLY	III-1
 <u>CHAPTER IV. CONTACT TRAINING</u>	
DOES NOT APPLY	IV-1
 <u>CHAPTER V. INSTRUMENT TRAINING</u>	
DOES NOT APPLY	V-1

CHAPTER VI. NAVIGATION TRAINING

DOES NOT APPLY VI-1

CHAPTER VII. CVN OPERATIONS TRAINING

TRAINING PHILOSOPHY VII-1
MATRICES VII-1
CNV OPERATIONS STAGE MIF VII-1
CVN OPERATIONS CASE I SIM EVENT SUPPORT (CVN11)..... VII-3
CVN OPERATIONS CASE I (CVN31) VII-4
CVN OPERATIONS CASE III SIM EVENT SUPPORT (CVN12) VII-6
CVN OPERATIONS CASE III (CVN32) VII-7

CHAPTER VIII. CARRIER STRIKE GROUP SUPPORT TRAINING

TRAINING PHILOSOPHY VIII-1
MATRICES VIII-1
CARRIER STRIKE GROUP SUPPORT STAGE MIF VIII-1
CARRIER STRIKE GROUP SUPPORT SIM EVENT SUPPORT (CSG11)..... VIII-3
CARRIER STRIKE GROUP SUPPORT (CSG31) VIII-4
CARRIER STRIKE GROUP SUPPORT CHECK FLIGHT (CSG32)..... VIII-6

CHAPTER IX. COURSE TRAINING STANDARDS

PURPOSE IX-1
IUT DUTIES AND RESPONSIBILITIES IX-1
GENERAL STANDARDS IX-1
EXECUTION IX-1
JOB TASKS IX-1
GRADED ITEMS IX-1
COURSE TRAINING STANDARDS IX-2

CHAPTER X. MASTER MATERIALS LIST

INDIVIDUALLY ISSUED MATERIALS X-1
MAJOR TRAINING DEVICES X-1

SUMMARY OF CHANGES

CHANGE NUMBER	DATE OF CHANGE	CHANGE DESCRIPTION	PAGES AFFECTED/ INITIALS

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

COURSE DATA

1. Course Title. Advanced MQ-25 Naval Air Vehicle Pilot Training System Instructor Under Training (NAVPTS) Curriculum.
2. Course Identification Numbers (CIN). Q-2D-1194.
3. Location. Naval Air Station Pensacola, FL.
4. Course Status. Active.
5. Course Mission. The mission of the Advanced MQ-25 Naval Air Vehicle Pilot Training System (NAVPTS) Instructor Under Training (IUT) curriculum is to provide a prospective Instructor Naval Air Vehicle Pilot (INAVP) with the appropriate flight procedures, instructional methodology and techniques to instruct a Student Naval Air Vehicle Pilot (SNAVP) in the Advanced MQ-25 NAVPTS phase of flight training. Requests for amendments or deviations to this instruction shall be forwarded to the Chief of Naval Air Training (CNATRA) (N71).
6. Prerequisite Training. Designation as an Air Vehicle Pilot, military pilot or military flight officer as required by CNATRA.
7. Security Clearance Requirements. None.
8. Follow-on Training. As required for the INAVP to maintain currency.
9. Course Length. For time-to-train calculations for this MCG please refer to CNATRA N3 Annual Time-to-Train Entitlement Notice for active 1542 series instructions on the CNATRA website: <https://cnatra.navy.mil> under Resources, Publications, CNATRA OPS Documents.
10. Class Capacity. Variable.
11. Instructor Requirements. As established by Chief of Naval Operations (CNO) planning factors.
12. Course Curriculum Model Manager. Commander, Training Air Wing SIX (COMTRAWING SIX).
13. Quota Management Authority. CNATRA.
14. Quota Control. CNO.

15. Course Training Subjects

a. Initial IUT Administration

INITIAL IUT ADMINISTRATION		
Stage	Symbol	Hours
Administration	ADM0101-3	3.0
Totals		3.0

b. Initial IUT Ground Training

INITIAL IUT GROUND TRAINING		
Stage	Symbol	Hours
MCS Crew Resource Management	CRM0101	2.0
Operational Risk Management	ORM0101	1.0
Instrument Ground School	IGS0101-2	6.0
CNATRA Flight Instructor Training Course	FTC0101-3	24.0
MCS Familiarization	MCS0101-4	7.0
MCS Device Introduction and Familiarity (FAM-0)	MCS0105	4.5
CVN Operations	CVN0101-7	19.0
CVN Operations Exam	CVN0108	1.5
Carrier Strike Group Support	CSG0101-9	17.0
Carrier Strike Group Support Exam	CSG0110	1.5
Totals		83.5

c. Initial IUT Simulator Support

INITIAL IUT SIMULATOR SUPPORT		
Stage	Symbol	Hours
CVN Operations Support Case I	CVN1101	2.0
CVN Operations Support Case III	CVN1201	2.0
Carrier Strike Group Support	CSG1101	3.0
Totals		7.0

d. Initial IUT Simulator Training

INITIAL IUT SIMULATOR TRAINING			
Flight/Events	Symbol	MCS	
		Flts	Hrs
CVN Operations Case I	CVN3101-3	3	4.5
CVN Operations Case III	CVN3201-5	5	7.5
Carrier Strike Group Support	CSG3101-9	9	13.5
Carrier Strike Group Support Check Flight	CSG3290	1	2.0
Totals		18	27.5

e. Annual INAVP Ground Training (Recurring)

ANNUAL INAVP GROUND TRAINING (Recurring)		
Stage	Symbol	Hours
MCS Crew Resource Management	CRM0101	2.0
Instrument Ground School (IGS)	IGS0101-2	6.0
CVN Operations Exam	CVN0108	1.5
CSG Support Exam	CSG0110	1.5
Totals		11.0

f. Annual INAVP Simulator Training (Recurring)

ANNUAL INAVP SIMULATOR TRAINING (Recurring)			
Flight/Events	Symbol	MCS	
		Flts	Hrs
Carrier Strike Group Support Check Flight	CSG3290	1	2.0
Totals		1	2.0

16. Training Time Analysis. In addition to the hours formally planned and scheduled for academic classes, ground training and simulator events, significant additional time to prepare and study outside of scheduled training hours should be expected by the Instructor Under Training (IUT). The amount of time will vary depending on the complexity of the material and individual IUT needs, and may be up to several hours per event. For simulator events, specific brief times will be programmed into the CNATRA approved Training/Learning Manager Management System (T/LMS) and accounted for on the flight schedule, per the following table:

ADDITIONAL FORMAL TRAINING TIME HOURS PER CURRICULUM EVENT			
Training Area	Brief	Debrief	Total
Simulator Events: All	1.0	1.0	2.0

17. Physical Requirements. As specified in the Manual of the Medical Department, Chapter 15, and all applicable anthropometric standards.

18. Obligated Service. Refer to MILPERSMAN for Naval personnel.

19. Preceding Curriculum Data. None.

20. Primary Instruction Methods. Lecture, Mediated Interactive Lecture (MIL), Computer Aided Instruction (CAI), self and group paced study, and 2B51 Multi-Crew Simulator (MCS) events.

21. IUT Performance Measurement/Application of Standards. The standards outlined in Chapter IX, Course Training Standards (CTS), are used to evaluate performance for all items on all events. Final judgment regarding the satisfactory performance of any item rests with the instructor. Refer to CNATRAINST 1500.4K, Chapter 6, for further guidance.

ABBREVIATIONS

The following is a list of abbreviations used in the curriculum:

ACLS	-	Automatic Carrier Landing System
ADMACS	-	Aviation Data Management and Control System
AIR PLAN	-	Air Operations Plan (aka Flight Schedule)
ATF	-	Aviation Training Form
ATJ	-	Aviation Training Jacket
AVP	-	Air Vehicle Pilot
BAR	-	Basic Airwork Recognition
CAG	-	Carrier Air Group; the title used when addressing the Air Wing Commander
CAI	-	Computer Aided Instruction
CAP	-	Combat Air Patrol
CAS	-	Close Air Support
CNATRA	-	Chief of Naval Air Training
COMM	-	Communications
COMTRAWING SIX	-	Commander, Training Air Wing SIX
CO-PC	-	Commanding Officer Progress Check
CRM	-	Crew Resource Management
CTS	-	Course Training Standard
CVN	-	Carrier, Aircraft, Nuclear, US Navy
CVW	-	Carrier Air Wing
CWC	-	Composite Warfare Commander
DCA	-	Defensive Counter Air
DOR	-	Drop On Request
EO/IR	-	Electro-Optical/Infra-Red

EOB	-	End of Block
EP	-	Emergency Procedure
ESM	-	Electronic Support Measure
ET	-	Extra Training
FAM	-	Familiarization
FEZ	-	Fighter Engagement Zone
FMS	-	Flight Management System
FTI	-	Flight Training Instruction
H/X	-	Hours per Event
INAVP	-	Instructor Naval Air Vehicle Pilot
IAW	-	In Accordance With
IFLOLS	-	Improved Fresnel Lens Optical Landing System
IPC	-	Initial Progress Check
JPALS	-	Joint Precision Approach and Landing System
MAGIC CARPET	-	Maritime Augmented Guidance with Integrated Controls for Carrier Approach and Recovery Precision Enabling Technologies
MCG	-	Master Curriculum Guide
MCS	-	Multi-Crew Simulator
MEZ	-	Missile Engagement Zone
MIF	-	Maneuver Item File
MIL	-	Mediated Interactive Lecture
NAVVP	-	Naval Air Vehicle Pilot
NAVPTS	-	Naval Air Vehicle Pilot Training System
NFS	-	Naval Flight Student
NSS	-	Naval Standard Score
OPNAV	-	Officer of the Chief of Naval Operations
P/P	-	Pencil and Paper (usually referencing a written examination)

PLATCAM	-	Pilot's Landing Aid Television Camera
ROE	-	Rules of Engagement
RRU	-	Ready Room Unsatisfactory
SOP	-	Standard Operating Procedure
SNAVP	-	Student Naval Air Vehicle Pilot
SSR	-	Special Syllabus Requirements
TCC	-	Tactical Crew Coordination
TRAWING	-	Training Air Wing
TTLR	-	Turning Tanker-Last Recovery
TTO	-	Training Time Out
UNSAT	-	Unsatisfactory
WU	-	Warm Up
XO	-	Executive Officer

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

GLOSSARY

1. Advancing X. Completed event within the normal syllabus flow. Excludes events with last characters in the range 84-89 unless specified by CNATRAINST 1500.4K.
2. Aviation Training Form (ATF). Any form used to document training performance in the Naval Aviation Training Command pipelines (computer generated grade sheets and supplemental administrative documents).
3. Aviation Training Jacket (ATJ). A complete administrative record of all aviation training received while attending flight training at Naval Aviation Training Command (NATRACOM) activities. It contains ATFs, calendar card, grade reports, and all other associated training information. ATJs are maintained in student control and follows the students through all phases of training.
4. Block of Training. A sequential series of lessons within a training stage sharing identical MIFs. The third character in the lesson designator identifies a block.
5. Blue Supplemental ATF. A standard ATF that is printed on blue paper. The blue supplemental ATF is used to denote an Extra Training (ET) event.
6. Check Flight (XX90). A check event in any stage of training. Check flight events shall be coded as XX90, e.g., CSG3290.
7. Class Advisor. An instructor assigned to each class as mentor and advisor to monitor student progress, assist when difficulties arise, and instill the Naval Aviation culture.
8. Commanding Officer Progress Check (CO-PC) (XX89). A progress check either directed by the Commanding Officer, or if triggered by SNAVP performance. A satisfactory CO-PC returns the student to normal syllabus flow. An UNSAT CO-PC results in a TRB. CO-PC events shall be coded as XX89, e.g., CVN3189.
9. Course of Training. The entire program of simulation, academics, and officer development conducted in all media during the programmed training days.
10. Course Training Standard (CTS). CTS define the behavior associated with each maneuver and standards or tolerances recommended for successful stage completion. These standards are defined in Chapter IX.
11. Courseware. The technical data, FTIs, audio, video, film, CAI, MIL, instructor guides, student study guides, and other training material developed to support and implement the syllabus of instruction.

12. Drop on Request (DOR). The self-initiated termination of training. Anytime a student makes a statement such as “I quit” or “DOR,” they shall be immediately removed from the training environment and referred to the training officer for administrative action.
13. Emergency Procedures (EP). An established procedure used by aircrew to assist in safely controlling the aircraft in the event of a flight control failure or airborne emergency.
14. End of Block (EOB). Last event in a block. The student must meet or exceed MIF on all mandatory items in the block to progress past EOB.
15. Event. A scheduled period of prescribed instruction. It may be in an academic or laboratory classroom, a simulator, or flight environment.
16. Extra Training (ET) (XX87). Extra training may be authorized by the squadron Commanding Officer to allow for correction of a training deficiency, or skillset deficiency. ET events shall be coded as XX87, e.g., CSG3187.
17. Flight Training Instruction (FTI). Training publications that define maneuvers and acceptable performance standards for each maneuver the student is expected to perform. Each FTI covers one or more stages of instruction.
18. Hours per Event (H/X). The resourced duration for each event, rounded to the nearest tenth of an hour.
19. Initial Progress Check (IPC) (XX88). A special check given by an experienced instructor (senior O-3 or above) as designated in writing by the CO. A satisfactory IPC returns the student to normal syllabus flow. An IPC can count as a progressing event at the CO’s discretion. An UNSAT IPC results in a CO-PC. IPC events shall be coded as XX88, e.g., CVN3188.
20. Instructor Training Form. A grade sheet documenting IUT performance for all categories of training regardless of media, phase, or stage.

21. Lesson Designator. All syllabus events have a lesson designator consisting of a stage identifier of up to three letters and an event code of four numbers representing order and required resourcing. Refer to the CNATRA 1550.6F CH-1 for further information.

Char	Meaning	Remarks
1 st - 3 rd	Stage	ADM – Administration CRM – Crew Resource Management MCS – Multi-Crew Simulator CVN – Carrier Operations ORM – Operational Risk Management FTC – Flight Instructor Training Course CSG – Carrier Strike Group Support IGS- Instrument Ground School
4 nd	Media	0 - Ground Training 1 - Academics/Sim Support 2 - CPT 3 - Simulator 4 - Aircraft
5 th	Block	Sequential, indicating block within stage.
6 th & 7 th	Event/ Check Identifier	Sequential, indicating event within block, or other event types as shown below: 84 - Adaptation Flight 85 - Practice Sim 86 - Warmup 87 - Extra Training 88 - Initial Progress Check 89 - CO Progress Check 90 - Check Flight

22. Mandatory Item. Any maneuver coded with a plus sign (+). This symbol indicates the maneuver is required and must be accomplished to the specified standard in that block of training.

23. Maneuver Item File (MIF). A chart listing the required maneuvers and associated proficiency levels for a particular block of flight training.

24. Master Curriculum Guide (MCG). A publication tailored to a specific phase of training.

25. Phase of Training. The chief subdivisions of a course. The Naval Aerial Vehicle Pilot pipeline is comprised of Primary, Intermediate, and Advanced MQ-25 NAVPTS phases of training.

27. Pink ATF. A standard ATF that is printed on pink paper. The pink ATF is used to denote an UNSAT event.

28. Progress Check (XX88/XX89). A student check event within a given stage of training administered by an experienced instructor IAW the CNATRAINST 1500.4K.

29. Progress Check Instructor. An INAVP authorized to administer Initial or Command Directed Progress Checks.
30. Ready Room UNSAT (RRU). An UNSAT grade given for inadequate knowledge of flight procedures, systems, discuss items, emergency procedures, or deficient preflight planning or failure of a non-academic examination (e.g., NATOPS quiz/exam). Missing a brief does not constitute an RRU, but shall be documented on a supplemental ATF. Refer to CNATRAINST 1500.4K, Ch. 6 for further information on missed briefs.
31. Special Syllabus Requirements (SSR). One-time, ungraded demonstration item.
32. Stage. A subdivision of a phase, comprised of events leading to a single set of objectives, designated by a common symbol (e.g., CVN Support, Carrier Strike Group Support). Refer to CNATRAINST 1550.6F CH-1, Appendix D for further information.
33. Standardization Instructor (SI). A highly experienced INAVP who is designated to provide initial training to IUTs and annual Advanced MQ-25 NAVPTS stage check flights to stage qualified INAVPs.
34. Standard Operating Procedure (SOP). An instruction or directive that provides guidance on TRAWING or squadron operating rules.
35. Training Media. Advanced MQ-25 NAVPTS IUT media include ground training, the 2B51 simulator, and associated simulator support lectures may consist of MILs, off-line lectures (Lect.), CAI lessons, and exams. The first numerical character in the lesson identifier designates the training media. Refer to CNATRAINST 1550.6F CH-1 for further information.
36. Training Review Board (TRB). A fact-finding board appointed to conduct an administrative review of training following a failed CO-PC. Refer to CNATRAINST 1500.4K for further information.
37. Training Time Out (TTO). A pause in training when a student or Instructor expresses concern for personal safety or a need exists to clarify procedures or requirements. Either the NFS or Instructor may call a TTO.
38. Warmup Event(s) (XX86). Additional event(s) given to allow a student to regain a level of proficiency previously demonstrated which has diminished due to a non-syllabus break in training. Warmup events shall be coded as XX86, e.g., CVN3186.

Chapter I

General Instructions

1. Syllabus Management

a. Distribution. Participating TRAWING and squadron personnel.

b. Interpretation. The syllabus is directive. Should circumstances create situations not covered within the scope of this syllabus, or specific course of action appears to conflict with other directives, consult CNATRA (N71).

c. Deviations. Document all deviations on the event's ATF.

d. Changes. Recommended changes shall be submitted IAW CNATRINIST 1550.6F CH-1.

e. Execution. All IUTs Chapters II through VIII.

f. Syllabus Description. Advanced NAVPTS events are executed in the 2B51 Multi-Crew Simulator (MCS) training platform and are divided into stages. Stages are grouped by similar flight training regimes such as Carrier Operations and Carrier Strike Group Support. Each stage may be subdivided into training blocks. If so, the training blocks consist of a specified number of events. MIFs identify the minimum acceptable level of performance in relation to the CTS that must be achieved at the completion of each training block.

2. Training Management

a. Syllabus Progression

(1) Other than noted exceptions, syllabus events shall be flown sequentially within each stage. Blocks shall not be started without all prerequisites completed. IUTs may be enrolled in different stages simultaneously. IUTs must complete all events unless proficiency advanced by the FITU OIC or TRAWING Commander. System training management is designed to facilitate two graded events (simulator, or exam) per IUT per day.

(2) The flowchart on page I-9 is a depiction of the Advanced MQ-25 NAVPTS IUT course flow which delineates the sequence of events and their ground training prerequisites. System training management is designed to facilitate up to two graded events (simulator or exam, or combination thereof) per IUT per day.

(3) The first event in stage must be completed within 14 calendar days of the associated simulator event support lecture. The associated simulator event support lecture must be redone if 14 or more days have elapsed.

(4) The first event in stage cannot be completed the same day as the associated simulator event support lecture(s).

b. Maneuver Continuity. IUTs should be allowed to attempt previously introduced maneuvers frequently enough to maintain required proficiency.

c. Hours per Event (H/X). Instructors shall plan and execute missions to meet H/X as closely as possible. If actual sortie length varies from H/X by more than 0.3 hours, the instructor shall annotate the reason in the ATF general comments section. This only applies to flight events, as simulator events should be conducted for the entire syllabus event H/X stated in the respective MCG. Refer to CNATRINST 1500.4K, section 605 for further clarification.

d. Location of Training. IUT shall be accomplished at home station.

e. Special Syllabus Requirements. Unless noted otherwise, instructors may accomplish SSRs on any event within the block. Annotate which were completed in the ATF's Maneuver Comments section. Assign NG/1 as the SSR maneuver grade and annotate date of exposure on the SSR tab.

3. Ground Training and Briefing Requirements

a. Mission Preparation, Briefings, and Debriefings

(1) EOB Events. The SI shall carefully review the IUT ATJ when planning the EOB event to ensure the profile includes opportunities to reach MIF on all mandatory items and demonstration items attempted in the block.

(2) Preparation. Students shall arrive for each flight or simulator event with:

(a) A thorough knowledge of:

1. The Discuss Items, as listed in Chapters II-VIII.

2. Procedural knowledge of the mandatory and demonstration items for the event's training block.

(b) An event profile tailored to training requirements, weak areas, and continuity.

(3) Briefing. Thoroughly cover the current mission's:

- (a) Discuss Items, as listed in Chapters II-VIII.
- (b) Specific objectives.
- (c) Techniques and required procedures for accomplishing those objectives.
- (d) Planned profile and contingencies.

(4) Debriefing

(a) After each event, the SI shall critique the IUT's performance using cause/effect analysis, particularly with respect to the CTS.

(b) The mission's complexity and IUT's progress will govern the time required for debrief.

(c) Debriefing must be detailed and comprehensive. The ATF shall be completed prior to the IUT's next event IAW CNATRAINST 1500.4K.

b. Emergency Procedures (EP) Briefing and Training. Incorporate EP training into simulator events when practical; however, instructional block objectives take precedence. Grade the IUT's overall EP knowledge and performance under EPs.

4. Mission Grading Procedures and Evaluation Policies

a. General Grading and Evaluation Policy. Course training standards and MIFs listed are minimum block completion standards per maneuver. MIF is designed to allow for minimum performance in a specific area, with the understanding that performance in other areas above the minimum MIF, will offset the weak area.

b. Grading Procedures

(1) Absolute Maneuver Grading. The following scale shall be used to document performance on maneuvers attempted during each event. This is an absolute grading scale. It shall be interpreted and used by SIs the same way for all items on all events. IUT performance as referred to in the scale below should be judged only against the CTS provided for a given item in the MCG.

(a) Demonstrated (NG/1 Level). Enter "No Grade (NG)":

1. When the SI demonstrates the maneuver and the IUT does not subsequently perform it during the event.

2. To indicate accomplishing all SSRs for that block or event. Also specify completed SSRs in the ATF's maneuver item content line and document date of exposure via the SSR button on the ATF menu bar.

(b) Unable (U/2 Level). Performance is unsafe or lacks sufficient knowledge, skill, or ability. Deviations greatly exceed CTS, significantly disrupting performance. Corrections significantly lag deviations or aggravate the deviation.

(c) Fair (F/3 Level). Performance is safe, but with limited proficiency. Deviations exceed CTS tolerances, detracting from performance. Corrections noticeably lag deviations, and may not be appropriate.

(d) Good (G/4 Level). Performance meets or positively exceeds CTS. Deviations outside CTS tolerances are brief, minor, and do not affect safety of flight. Corrections are appropriate and timely.

(e) Excellent (E/5 Level). Surpasses CTS. Performance is correct, efficient, and skillful. Deviations are very minor. Corrections, if required, are initiated by the IUT and are appropriate, smooth, and timely.

(2) Overall Event Grades. Overall event grades represent the IUT's progression through the syllabus. Every training event shall be marked Pass or Unsatisfactory (UNSAT). Use the following definitions to characterize event grades. See *Awarding Overall Event Grades* for specific rules defining UNSAT performance.

(a) Pass

1. Prior to EOB. Level of performance is generally adequate to meet or exceed levels of expected performance by EOB necessary to continue training.

2. EOB. IUT performance meets or exceeds performance necessary to continue to the next block, stage, or phase training. If the IUT has previously met MIF in the block, they must still meet MIF in the EOB event if the maneuver is reattempted.

(b) UNSAT. IUT exhibits dangerous tendencies or progress toward meeting EOB standards is insufficient. An overall UNSAT is at the SI's discretion. It should be noted that an event may be graded UNSAT without any individual maneuvers graded U/2. If the IUT receives an UNSAT on any event, the ATF shall be printed on pink paper. If an overall UNSAT grade is awarded on any event other than normal syllabus flow events, the SI shall clearly state the justification in the General Comments section of the ATF.

(c) MIF Performance Maintenance. IUTs shall maintain or exceed MIF performance from one block to the next within stage or between media within stage, except as noted below or when MIF on a subsequent block is below the preceding block MIF.

(3) Maneuver Requirements. For each block:

(a) Mandatory Items. Items with a number and a plus sign (+) are mandatory and the student must meet the required proficiency by EOB. When a maneuver is performed multiple times in a block of training, the last grade assigned for the maneuver will determine if the IUT meets EOB MIF.

(b) Demonstration Items. Items with the number 1, but without a plus (+), are demonstration items. If one or more is flown within a block, the IUT must meet the preparation and knowledge requirements to safely attempt the item. IUTs may receive a U/2 for a Demonstration item if they are not adequately prepared for, or do not have the requisite knowledge to perform the item.

(4) Complete and Incomplete Events

(a) An event may both complete a previous event and count as an advancing event.

(b) For events flown exclusively to clear an incomplete, grades on maneuvers repeated from the incomplete event do not count toward the student's score, except where the grade assigned for the repeated item is lower than the lowest grade previously assigned on that item from all previous attempts at that event.

(c) Simulator Event Completion. Assess a simulator event complete if the IUT has received the full training period per the MCG. If required, the simulator event may be conducted for a time period greater than that stated in the MCG. If the actual simulator sortie length is greater than stated H/X by more than 0.3 hours, the instructor shall annotate the reason in the ATF's General Comments section. The simulator event shall not be conducted for a time less than stated in the MCG, unless it is completing a previously incomplete event.

c. Policies for Evaluation Flights and Ground Evaluations

(1) Authorized Evaluators. The CO shall designate Standardization Instructors (SI) for each stage.

(2) Check Event (XX90)

(a) Check events are single-event training blocks. Therefore, all expectations regarding progressing out of a block apply, except:

1. IUT should fly a cross section of Demonstration items (NG/1) after all (+) graded items are adequately performed.

2. The IUT should be able to demonstrate required levels of proficiency without instructor assistance. However, instruction is allowed on check events and IUT may re-attempt maneuvers at the SI's discretion. If the flight profile was incomplete because too much time was dedicated to re-attempting maneuvers, or too much event time utilized for additional training, the item should be graded "U/2" and the flight should be graded UNSAT/incomplete.

3. The entire event duration should be devoted to assessing IUT skill attainment, ability, and readiness to progress to the next block of training. All required maneuvers must be completed to MIF.

(b) Incomplete check event

1. A check event shall be graded as incomplete when:

a. Any (+) graded item was not flown, or

b. The SI was unable to observe sufficient examples of a given maneuver to assess overall IUT performance. If the flight profile is incomplete because too much time was dedicated to re-attempting maneuvers, or excessive additional training was required, overall event grade should be UNSAT/Incomplete.

2. The subsequent completion flight need only include maneuvers required to complete the check event.

3. Exceptions. The check event is complete and the overall grade is UNSAT if:

a. Any graded item is below expected performance levels needed to succeed in follow-on training, or

b. Any NG/1 item was not adequately prepared for, or required item knowledge was insufficient resulting in a grade of U/2 for the Demonstration item, or

c. The SI determines inadequate performance was demonstrated on any item, or items, that will not predicate successful follow-on normal course flow training.

5. Special Instructions and Restrictions

a. Maximum Daily IUT Activities. Schedule limitations for IUTs shall be left to the discretion of the FITU OIC or cognizant Wing Commander, but shall be consistent with CNAF M-3710.7 guidance.

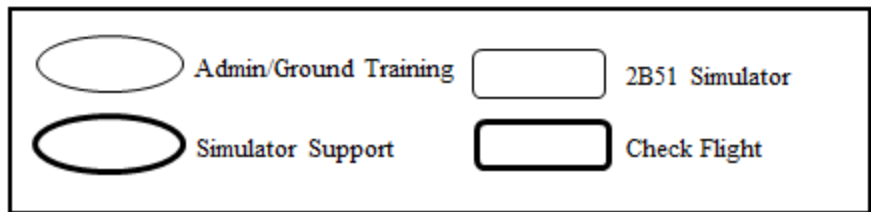
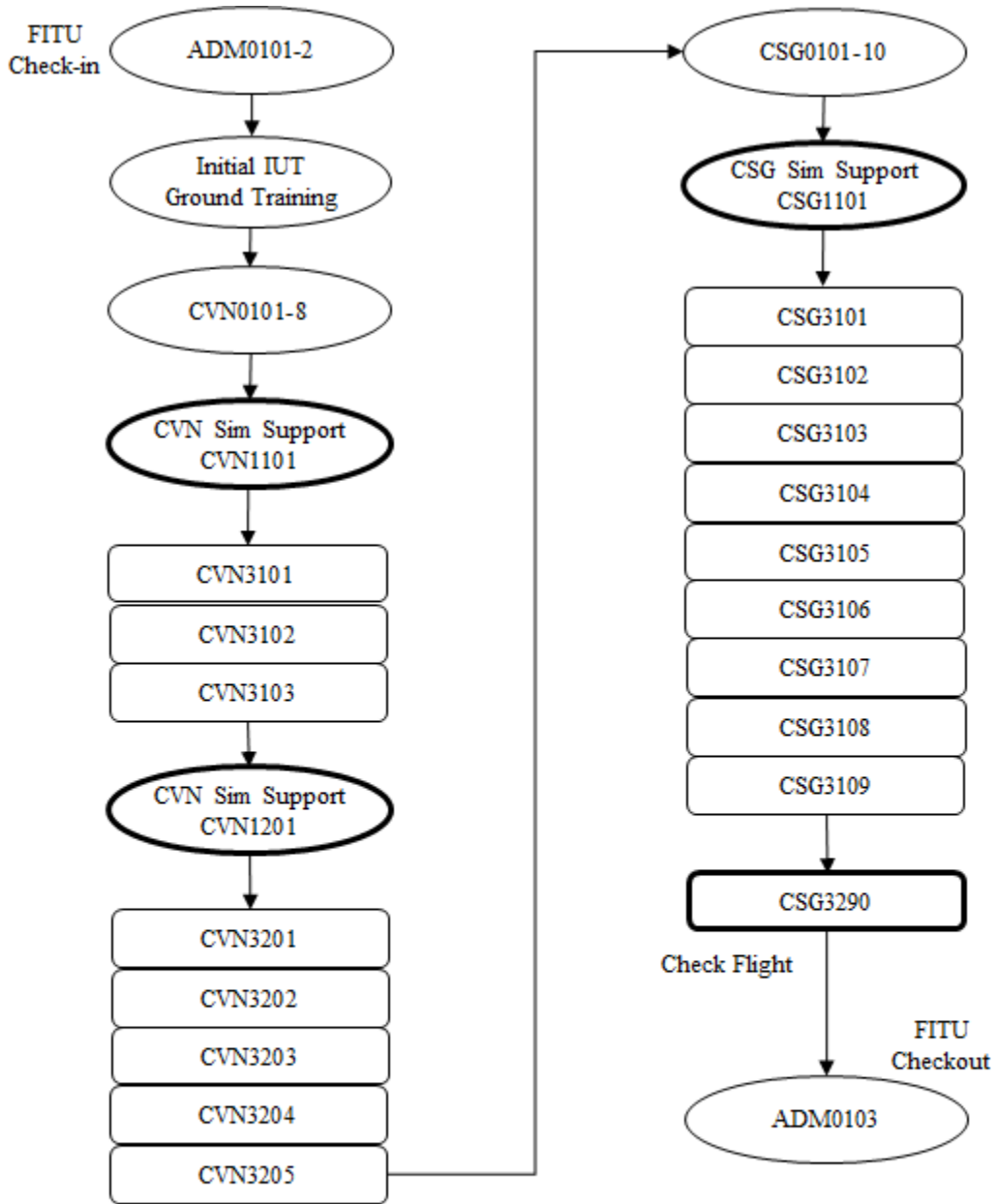
b. IUT Flight Conduct. All IUT events shall be conducted in accordance with the current FTIs and local SOPs.

c. Proficiency Advancement. Reasonable accelerations and decelerations in the curriculum are authorized when warranted by previous experience or demonstrated ability; combination of any two events is authorized. Accelerations of the curriculum require FITU OIC (Proficiency Advance) or TRAWING Commander (Training Acceleration Program) approval and shall be annotated in writing in the ATJ.

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

ADVANCED MQ-25 NAVPTS IUT COURSE FLOW



BLANK PAGE

Chapter II

Initial IUT Ground Training

Blk #	Media	Title	Events	Hrs	Blk Name
ADM01	Class	Administration	3	3.0	ADMIN

1. Prerequisites

- a. ADM0101 prior to ADM0102-3 (in order).
- b. CRM0101, ORM0101, IGS0102, FTC0103 and CSG3290 prior to ADM0103.

2. Events

ADM0101	Admin	FITU Check-in		1.0	
ADM0102	Admin	FITU OIC Check-in Brief		1.0	
ADM0103	Admin	FITU Checkout		1.0	

3. Syllabus Notes. None.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	Blk Name
CRM01	Class	Crew Resource Management	1	2.0	CRM

1. Prerequisite. ADM0101.

2. Events

CRM0101	MIL	MCS Crew Resource Management	2.0
---------	-----	------------------------------	-----

3. Syllabus Notes. CRM0101 is required to fulfill initial training and annual INAVP currency requirements.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	Blk Name
ORM01	Class	Operational Risk Management	1	1.0	ORM

1. Prerequisite. ADM0101 prior to ORM0101.

2. Events

ORM0101	Lect	Operational Risk Management	1.0
---------	------	-----------------------------	-----

3. Syllabus Notes. ORM0101 is required to fulfill initial training and annual INAVP currency requirements.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	Blk Name
IGS01	Class	Instrument Ground School (IGS)	2	6.0	IGS

1. Prerequisite. ADM0101 prior to IGS0101-2 (in order).

2. Events

IGS0101	Lect	Instrument Ground School		4.0	
IGS0102	P/P Exam	Instrument Ground School Exam		2.0	

3. Syllabus Notes. IGS0101-2 are required to fulfill initial and annual INAVP currency requirements.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	Blk Name
FTC01	Class	CNATRA Flight Instructor Training Course (FITC)	3	24.0	FTC

1. Prerequisite. ADM0101 prior to FTC0101-3 (in order).

2. Events

FTC0101	MIL	FITC Day 1		8.0	
FTC0102	MIL	FITC Day 2		8.0	
FTC0103	Lect	FITC Day 3		8.0	

3. Syllabus Notes. FTC0101-3 are required prior to designation as a NATRACOM flight instructor. For those IUTs who have previously attended FITC and are returning to NATRACOM, Day 3 shall be attended, at a minimum.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	Blk Name
MCS01	Class/ 2B51	MCS Familiarization	5	11.5	MCS

1. Prerequisites

- a. ADM0101 prior to MCS0101-4 (any order).
- b. MCS0101-4 prior to MCS0105.

2. Events

MCS0101	MIL	MCS Ops Manual Overview		2.0
MCS0102	MIL	MCS System Failures and EPs		2.0
MCS0103	MIL	MCS Operational Risk Management		1.0
MCS0104	MIL	Introduction to the MCS Capabilities, Procedures, and Crew Interface		2.0
MCS0105	Lab/2B51	MCS Device Introduction and Familiarity (FAM-0)		4.5

3. Syllabus Notes. The IUT will accomplish or simulate the following items during MCS0105: device familiarization (identify all electronic displays and functions), checklist procedures, and malfunction and emergency procedures.

4. Discuss Items. Briefing and debriefing requirements, MCS checklists and procedures, malfunctions and emergency procedures, and MCS crew resource management utilization.

Blk #	Media	Title	Events	Hrs	Blk Name
CVN01	Class	CVN Operations	8	20.5	CVN1

1. Prerequisite. MCS0105 prior to CVN0101-8 (in order).

2. Events

CVN0101	CAI	Community Brief		2.0	
CVN0102	CAI	MQ-25 Mission Overview		2.0	
CVN0103	CAI	Tanking Mission		2.0	
CVN0104	MIL	Air Plan/ADMACS		4.0	
CVN0105	CAI	Case I/III CVN Operations		2.0	
CVN0106	MIL	Case I/III CVN Operations		4.0	
CVN0107	MIL	CVN Operations Exam Review		3.0	
CVN0108	CAI Test	CVN Operations Exam		1.5	

3. Syllabus Notes. CVN0108 is required to fulfill initial training and annual INAVP currency requirements.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	Blk Name
CSG01	Class	Carrier Strike Group Support	10	18.5	CSG1

1. Prerequisite. CVN3205 prior to CSG0101-10 (in order).

2. Events

CSG0101	CAI	Surface Search Overview		1.0
CSG0102	CAI	Surface Target Identification		1.0
CSG0103	CAI	Littoral Surveillance Overview		1.0
CSG0104	MIL	Surface Search Sensor Employment and Procedures		1.5
CSG0105	MIL	Littoral Surveillance Sensor Employment and Procedures		1.5
CSG0106	CAI	AIC Comms/Tactics/Timeline		2.0
CSG0107	CAI	DCA/Strike Mission		2.0
CSG0108	MIL	AIC/Missions Overview		4.0
CSG0109	MIL	CSG Support Exam Review		3.0
CSG0110	CAI	CSG Support Exam Test		1.5

3. Syllabus Notes. CSG0110 is required to fulfill initial training and annual INAVP currency requirements.one.

4. Discuss Items. None.

Chapter III

NATOPS Training

This chapter does not apply to the Advanced MQ-25 NAVPTS IUT phase of training.

BLANK PAGE

Chapter IV

Contact Training

This chapter does not apply to the Advanced MQ-25 NAVPTS IUT phase of training.

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

Chapter V

Instrument Training

This chapter does not apply to the Advanced MQ-25 NAVPTS IUT phase of training.

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

Chapter VI

Navigation Training

This chapter does not apply to the Advanced MQ-25 NAVPTS IUT phase of training.

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE

Chapter VII

CVN Operations Training

1. Training Philosophy. The IUT shall observe, execute, and instruct, all simulator events in this stage under the supervision of an Advanced MQ-25 NAVPTS Standardization Instructor (SI).
2. Matrices. The following matrices are an overview of the CVN Operations stage. The purpose of these matrices is to provide the IUT and SI with the easiest way to track progress and overall status in relation to the MIF. In addition, there is a single matrix following each block description throughout this chapter.
3. CVN Operations Stage MIF

 Simulator/Device Event

CVN OPERATIONS STAGE MANEUVER ITEM FILE			
CTS REF	MANEUVER	CVN3103	CVN3205
1	General Knowledge/Procedures	4+	4+
2	Emergency Procedures	4+	4+
3	Headwork/ Situational Awareness	4+	4+
4	Basic Airwork Recognition	4+	4+
5	System Knowledge	4+	4+
6	Mission Planning/Preparation	4+	4+
7	Brief	4+	4+
8	Inflight Checks	4+	4+
10	Data Link Utilization	4+	4+
11	Communication Procedures	4+	4+
12	Crew Resource Management/TCC	4+	4+
13	Prioritization	4+	4+
14	Scan	4+	4+

MIF continued on next page.

CVN OPERATIONS STAGE MANEUVER ITEM FILE			
CTS REF	MANEUVER	CVN3103	CVN3205
15	Debrief	4+	4+
16	Aerial Refueling	4+	4+
17	Case I/III Procedures	4+	4+
18	EO/IR Utilization	4+	4+
22	Flight Instruction/Detect and Correct Student Errors	4+	4+
23	Instructional Assistance	4+	4+
24	Aviation Training Jacket Review	4+	4+
25	Grading	4+	4+
26	Debriefing	4+	4+

Blk #	Media	Title	Events	Hrs	Blk Name
CVN11	Class	CVN Operations Case I- Sim Event Support	1	2.0	CVN2

1. Prerequisite. CVN0108 prior to CVN1101.

2. Events

CVN1101	MIL	Case I Sim Event Preparation	2.0
---------	-----	------------------------------	-----

3. Syllabus Notes. None.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	H/X
CVN31	2B51	CVN Operations Case I	3	4.5	1.5

1. Prerequisite. CVN1101 prior to CVN3101-3 (in order).
2. Syllabus Notes. IUT events are conducted concurrently with student Advanced MQ-25 NAVPTS events.
3. Special Syllabus Requirements. None.
4. Discuss Items. Refer to CNATRINST 1542.193 for applicable discuss items for the Advanced MQ-25 NAVPTS student event being conducted.
5. Block MIF

CTS REF	MANEUVER	CVN3103
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4+
3	Headwork/ Situational Awareness	4+
4	Basic Airwork Recognition	4+
5	System Knowledge	4+
6	Mission Planning/Preparation	4+
7	Brief	4+
8	Inflight Checks	4+
10	Data Link Utilization	4+
11	Communication Procedures	4+
12	Crew Resource Management/TCC	4+
13	Prioritization	4+
14	Scan	4+
15	Debrief	4+
16	Aerial Refueling	4+
17	Case I/III Procedures	4+
18	EO/IR Utilization	4+

MIF continued on next page.

CTS REF	MANEUVER	CVN3103
22	Flight Instruction/Detect and Correct Student Errors	4+
23	Instructional Assistance	4+
24	Aviation Training Jacket Review	4+
25	Grading	4+
26	Debriefing	4+

Blk #	Media	Title	Events	Hrs	Blk Name
CVN12	Class	CVN Operations Case III Sim Event Support	1	2.0	CVN3

1. Prerequisite. CVN3103 prior to CVN1201.

2. Events

CVN1201	MIL	Case III Sim Event Preparation	2.0
---------	-----	--------------------------------	-----

3. Syllabus Notes. None.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	H/X
CVN32	2B51	CVN Operations Case III	5	7.5	1.5

1. Prerequisite. CVN1201 prior to CVN3201-5 (in order).
2. Syllabus Notes. IUT events are conducted concurrently with student Advanced MQ-25 NAVPTS events.
3. Special Syllabus Requirements. None.
4. Discuss Items. Refer to CNATRINST 1542.193 for applicable discuss items for the Advanced MQ-25 NAVPTS student event being conducted.
5. Block MIF

CTS REF	MANEUVER	CVN3205
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4+
3	Headwork/ Situational Awareness	4+
4	Basic Airwork Recognition	4+
5	System Knowledge	4+
6	Mission Planning/Preparation	4+
7	Brief	4+
8	Inflight Checks	4+
10	Data Link Utilization	4+
11	Communication Procedures	4+
12	Crew Resource Management/TCC	4+
13	Prioritization	4+
14	Scan	4+
15	Debrief	4+
16	Aerial Refueling	4+
17	Case I/III Procedures	4+
18	EO/IR Utilization	4+



MIF continued on next page.

CTS REF	MANEUVER	CVN3205
22	Flight Instruction/Detect and Correct Student Errors	4+
23	Instructional Assistance	4+
24	Aviation Training Jacket Review	4+
25	Grading	4+
26	Debriefing	4+

Chapter VIII

Carrier Strike Group Support Training

1. Training Philosophy. The IUT shall observe, execute, and instruct, all simulator events in this stage under the supervision of an Advanced MQ-25 NAVPTS Standardization Instructor (SI).
2. Matrices. The following matrices are an overview of the CSG stage. The purpose of these matrices is to provide the IUT and SI with the easiest way to track progress and overall status in relation to the MIF. In addition, there is a single matrix following each block description throughout this chapter.
3. Carrier Strike Group Support Stage MIF

 Simulator/Device Event
 Check Flight Event

CARRIER STRIKE GROUP SUPPORT STAGE MANEUVER ITEM FILE			
CTS REF	MANEUVER	CSG3109	CSG3290
1	General Knowledge/Procedures	4+	4+
2	Emergency Procedures	4+	4+
3	Headwork/ Situational Awareness	4+	4+
4	Basic Airwork Recognition	4+	4+
5	System Knowledge	4+	4+
6	Mission Planning/Preparation	4+	4+
7	Brief	4+	4+
8	Inflight Checks	4+	4+
9	ESM Utilization	4+	4+
10	Data Link Utilization	4+	4+
11	Communication Procedures	4+	4+
12	Crew Resource Management/TCC	4+	4+

MIF continued on next page.

CARRIER STRIKE GROUP SUPPORT STAGE MANEUVER ITEM FILE			
CTS REF	MANEUVER	CSG3109	CSG3290
13	Prioritization	4+	4+
14	Scan	4+	4+
15	Debrief	4+	4+
16	Aerial Refueling	4+	4+
17	Case I/III Procedures	4+	4+
18	EO/IR Utilization	4+	4+
19	Surface/Littoral Surveillance	4+	4+
20	DCA Support	4+	4+
21	Strike Support	4+	4+
22	Flight Instruction/Detect and Correct Student Errors	4+	4+
23	Instructional Assistance	4+	4+
24	Aviation Training Jacket Review	4+	4+
25	Grading	4+	4+
26	Debriefing	4+	4+

Blk #	Media	Title	Events	Hrs	Blk Name
CSG11	Class	Carrier Strike Group Support – Sim Event Support	1	3.0	CSG2

1. Prerequisite. CSG0110 prior to CSG1101.

2. Events

CSG1101	MIL	Carrier Strike Group Support Sim Event Preparation	3.0
---------	-----	---	-----

3. Syllabus Notes. None.

4. Discuss Items. None.

Blk #	Media	Title	Events	Hrs	H/X
CSG31	2B51	Carrier Strike Group Support	9	13.5	1.5

1. Prerequisite. CSG1101 prior to CSG3101-9 (in order).
2. Syllabus Notes. IUT events are conducted concurrently with student Advanced MQ-25 NAVPTS events.
3. Special Syllabus Requirements. None.
4. Discuss Items. Refer to CNATRINST 1542.193 for applicable discuss items for the Advanced MQ-25 NAVPTS student event being conducted.
5. Block MIF

CTS REF	MANEUVER	CSG3109
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4+
3	Headwork/ Situational Awareness	4+
4	Basic Airwork Recognition	4+
5	System Knowledge	4+
6	Mission Planning/Preparation	4+
7	Brief	4+
8	In-flight Checks	4+
9	ESM Utilization	4+
10	Data Link Utilization	4+
11	Communication Procedures	4+
12	Crew Resource Management/TCC	4+
13	Prioritization	4+
14	Scan	4+
15	Debrief	4+
16	Aerial Refueling	4+
17	Case I/III Procedures	4+

MIF continued on next page.

CTS REF	MANEUVER	CSG3109
18	EO/IR Utilization	4+
19	Surface/Littoral Surveillance	4+
20	DCA Support	4+
21	Strike Support	4+
22	Flight Instruction/Detect and Correct Student Errors	4+
23	Instructional Assistance	4+
24	Aviation Training Jacket Review	4+
25	Grading	4+
26	Debriefing	4+

Blk #	Media	Title	Events	Hrs	H/X
CSG32	2B51	Carrier Strike Group Support Check Flight	1	2.0	2.0

1. Prerequisite. CSG3109 prior to CSG3290.
2. Syllabus Notes
 - a. The IUT shall not instruct this event until fully qualified and designated as a Flight Instructor.
 - b. Once qualified, **this event is required to fulfill annual** INAVP currency requirements and shall be conducted concurrently with any student Advanced MQ-25 NAVPTS CSG simulator event.
3. Special Syllabus Requirements. None.
4. Discuss Items. Refer to CNATRAINST 1542.193 for applicable discuss items for the Advanced MQ-25 NAVPTS CSG3290 student event.
5. Block MIF

CTS REF	MANEUVER	CSG3290
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4+
3	Headwork/ Situational Awareness	4+
4	Basic Airwork Recognition	4+
5	System Knowledge	4+
6	Mission Planning/Preparation	4+
7	Brief	4+
8	Inflight Checks	4+
9	ESM Utilization	4+
10	Data Link Utilization	4+
11	Communication Procedures	4+
12	Crew Resource Management/TCC	4+

MIF continued on next page.

CTS REF	MANEUVER	CSG3290
13	Prioritization	4+
14	Scan	4+
15	Debrief	4+
16	Aerial Refueling	4+
17	Case I/III Procedures	4+
18	EO/IR Utilization	4+
19	Surface/Littoral Surveillance	4+
20	DCA Support	4+
21	Strike Support	4+
22	Flight Instruction/Detect and Correct Student Errors	4+
23	Instructional Assistance	4+
24	Aviation Training Jacket Review	4+
25	Grading	4+
26	Debriefing	4+

BLANK PAGE

Chapter IX

Course Training Standards

1. Purpose. These standards outline the tasks and proficiency required of Advanced MQ-25 NAVPTS IUTs during initial training and INAVP requalification training.

2. IUT Duties and Responsibilities

a. Plan the mission.

b. Help the student operate the simulator or simulator systems, as applicable, to accomplish the mission using sound judgment and airmanship.

c. Operate the 2B51 simulator to accomplish the mission.

3. General Standards

a. “Standard” equates to **good** (G/4).

b. Unless otherwise specified, use Basic Airwork Recognition (BAR) standards for all items with altitude, airspeed, or heading parameters.

c. Momentary deviations outside CTS that do not compromise flight safety are acceptable if subsequent corrections are timely.

d. Procedural knowledge and application must comply with applicable directives and allow efficient mission accomplishment. If individual tasks require pre-mission planning, the standards from **Mission Planning** apply.

4. Execution. The MIF regulates student progression to meet required standards prior to phase completion. Standardization Instructors shall evaluate IUT performance against these standards.

5. Job Tasks. Specific performance and standards required are described as follows:

BEHAVIOR STATEMENT	STANDARDS
Graded Item	
• A brief description of the behavior, required action, and/or conditions.	• The specific standards for the action. May be read as “The IUT...”

6. Graded Items. The MIF for specific graded items varies for each stage. Several items are graded on all complete syllabus events. The standards for these universally graded items are listed first followed by the Course Training Standards unique to each stage.

7. Course Training Standards

BEHAVIOR STATEMENT	STANDARDS
1. General Knowledge/Procedures	
<ul style="list-style-type: none"> ● Maintain working knowledge of all appropriate flight training instructions and directives. 	<ul style="list-style-type: none"> ● Recites, discusses, and/or performs all applicable items IAW FTI and essential to the operation of the aircraft and completion of the mission. ● Demonstrates knowledge of the CNATRA student master curriculum guide and Naval Flight Student Administration Manual.
2. Emergency Procedures	
<ul style="list-style-type: none"> ● Maintain in-depth knowledge of all MCS Student Guide emergency procedures. ● Utilize the checklist IAW MCS Student Guide and FTI guidelines. 	<ul style="list-style-type: none"> ● Recognizes the status of an immediate action item within one (1) minute. ● Performs/recites critical action steps from memory with 100 percent accuracy. ● Correctly communicates with the crew to accomplish the procedure(s). ● Uses correct checklist to complete procedures when conditions permit. ● Proactively responds to compound emergencies and engages in discussion with crewmembers to achieve a resolution. ● Prioritizes and correctly analyzes compound emergencies to a logical conclusion/successful resolution.
3. Headwork/Situational Awareness	
<ul style="list-style-type: none"> ● Comply with the FTI and MCS Operating Manual while maintaining SA IAW safety-of-flight and mission objectives. 	<ul style="list-style-type: none"> ● Foresees and avoids possible difficulties by making recommendations that enhance the situation and/or overall mission effectiveness. ● Remains alert and spatially oriented during all phases of the event. ● Maintains overall awareness with regard to fuel state, aircraft configuration, traffic in vicinity of own ship, and dynamic weather conditions.

BEHAVIOR STATEMENT	STANDARDS
4. Basic Air work Recognition	
<ul style="list-style-type: none"> ● Comply with the FTI and MCS Operating Manual while maintaining SA IAW safety-of-flight and mission objectives. 	<ul style="list-style-type: none"> ● Monitors aircraft within +/- 100 feet of assigned or directed altitude. ● Monitors aircraft within ±10 knots of assigned or directed airspeed. ● Monitors aircraft within ±5° of assigned or directed heading. ● Recognizes deviations within 30 seconds and immediately directs corrections upon recognition.
5. System Knowledge	
<ul style="list-style-type: none"> ● Comply with the FTI and MCS Student Guide while maintaining a working knowledge of directives. 	<ul style="list-style-type: none"> ● Describes the correct nomenclature, purpose, characteristics, functions, and limitations of MCS systems without error.
6. Mission Planning/Preparation	
<ul style="list-style-type: none"> ● Performs mission planning with the aid of checklists and mission tasking brief. 	<ul style="list-style-type: none"> ● Clearly defines the mission overview and goals. Identifies appropriate message traffic to properly plan the mission. ● Acquires appropriate mission and weather data for the operations area. ● Completes mission charts without error. ● Identifies appropriate controlling agencies with associated comm frequencies. ● Plans alternate destination based on estimated fuel requirements.
7. Brief	
<ul style="list-style-type: none"> ● Performs a proper mission brief. 	<ul style="list-style-type: none"> ● Is thoroughly prepared for the brief and as applicable, briefs the flight to include specific mission objectives, flight conduct, and contingency planning. ● Conducts an accurate mission and safety brief given a standard mission briefing guide. ● Interacts with instructors in a professional manner.

BEHAVIOR STATEMENT	STANDARDS
8. Inflight Checks	
<ul style="list-style-type: none"> ● Monitors aircraft systems to include engine, fuel, hydraulics, and C2 link. 	<ul style="list-style-type: none"> ● Monitors status of systems and acknowledges deviations within one (1) minute. ● Adjusts mission profile for fuel considerations. ● Identifies nearest suitable landing field during emergency procedures. ● Conducts cruise checks at required intervals.
9. ESM Utilization	
<ul style="list-style-type: none"> ● Performs ESM operations with the aid of checklists and mission tasking brief. 	<ul style="list-style-type: none"> ● Properly describes theory of operation and function of the ESM equipment. ● Properly operates all functions of the ESM equipment. ● Monitors the status of the ESM equipment and acknowledges sensor degradations within one (1) minute of the malfunction. ● Properly troubleshoots all ESM equipment malfunctions.
10. Data Link Utilization (LINK-16)	
<ul style="list-style-type: none"> ● Performs data link operations with the aid of checklists, appropriate messages, and mission tasking brief. 	<ul style="list-style-type: none"> ● Properly describes theory of operation and function of the data link equipment. ● Properly operates all functions of the data link equipment. ● Describes all nomenclature as it pertains to data link employment. ● Monitors status of the data link and acknowledges sensor degradations within one (1) minute of the malfunction. ● Properly troubleshoots all data link malfunctions.

BEHAVIOR STATEMENT	STANDARDS
11. Communication Procedures	
<ul style="list-style-type: none"> ● Communicates/performs with standard terminology IAW the unclassified tactical aid, checklists, and FTI. 	<ul style="list-style-type: none"> ● Responds correctly to 90 percent or more of incoming calls. ● Acknowledges all communications. ● Communicates clearly and concisely with appropriate unit using standard radio procedures ● Make timely transmissions without blocking other radio calls. ● Communicates using standard terminology and brevity. ● Communicates precisely formatted radio transmissions. ● Communicates properly during secure radio transmissions. ● Correctly utilizes brevity terms.
12. Crew Resource Management/TCC	
<ul style="list-style-type: none"> ● Directs aircrew and other resources to minimize workload in order to enhance SA. 	<ul style="list-style-type: none"> ● Directs aircrew using standard communications. ● Communicates with brevity to crewmembers. ● Coordinates with crewmembers to conduct mission duties. ● Makes timely recommendations to maintain aircraft flight parameters through all regimes of flight. ● Uses appropriate interaction between crewmembers with regard to normal procedures. ● Uses SA building communications with crewmembers. ● Demonstrates the use of all CRM/TCC skills to effectively use all resources, information, and knowledge to guide the crew to the successful achievement of all tasks in flight.

BEHAVIOR STATEMENT	STANDARDS
13. Prioritization	
<ul style="list-style-type: none"> Manages task loading in the proper order of precedence per FTI recommended minimum requirements. 	<ul style="list-style-type: none"> Effectively prioritizes task loading in order of importance.
14. Scan	
<ul style="list-style-type: none"> Exhibits proper recognition of system and flight instrumentation. 	<ul style="list-style-type: none"> Recognizes any abnormal system indications within one (1) minute. Makes required altitude calls.
15. Debrief	
<ul style="list-style-type: none"> Properly participates in debrief. 	<ul style="list-style-type: none"> If appropriate, acknowledges unusual deviations, potential hazardous conditions, or unusual operations to controlling authority. Reports status of mission objectives. Is receptive to constructive feedback, taking responsibility for student errors, and discusses proactive measures to improve performance. Recalls specifics of the mission and is able to accurately assess aircrew performance.
16. Aerial Refueling	
<ul style="list-style-type: none"> Directs aerial refueling procedures. 	<ul style="list-style-type: none"> Utilizes proper radio procedures as it pertains to aerial refueling. Properly manages time considerations as it pertains to air refueling. Directs aerial refueling procedures IAW publications and checklists.
17. Case I/III Procedures	
<ul style="list-style-type: none"> Performs and monitors Case I/III procedures. 	<ul style="list-style-type: none"> Conduct Case I/III procedures IAW publications and checklists. Utilizes proper radio procedures during Case I/III. Recognizes deviations from Case I/III recovery procedures. Recognizes recovering assets' fuel states.

BEHAVIOR STATEMENT	STANDARDS
18. Electro-Optical/Infrared Utilization	
<ul style="list-style-type: none"> ● Performs EO/IR operations with the aid of checklists and missions tasking brief. 	<ul style="list-style-type: none"> ● Properly operates all functions of the EO/IR equipment. ● Properly operates the EO/IR equipment to determine static and dynamic contacts. ● Monitors the status of the EO/IR equipment and acknowledges sensor degradations within one (1) minute of malfunction. ● Properly trouble shoots all EO/IR equipment malfunctions.
19. Surface/Littoral Surveillance	
<ul style="list-style-type: none"> ● Performs surface surveillance procedures upon arriving on-station with the aid of checklists, mission tasking brief, and sensor utilization. 	<ul style="list-style-type: none"> ● Completes sensor status checks as it pertains to surface surveillance. ● Directs aircraft altitude and position for optimal coverage. ● Reports unusual or suspicious actions or activity IAW mission tasking brief within five minutes of recognition to applicable Warfare Commanders.
20. DCA Support	
<ul style="list-style-type: none"> ● Supports DCA operations. 	<ul style="list-style-type: none"> ● Properly positions aircraft for DCA aerial refueling support. ● Recognizes DCA asset fuel states based on radio communications. ● Maintains proper threat standoff.
21. Strike Support	
<ul style="list-style-type: none"> ● Supports Strike operations. 	<ul style="list-style-type: none"> ● Properly positions aircraft for Strike aerial refueling support. ● Recognizes Strike asset fuel states based on radio communications. ● Maintains proper threat standoff.

BEHAVIOR STATEMENT	STANDARDS
22. Flight Instruction/Detect and Correct Student Errors	
<ul style="list-style-type: none"> ● Maintain vigilance in order to recognize student errors and correct them effectively. ● Help student improve individual performance. 	<ul style="list-style-type: none"> ● Identifies and understands typical student errors for the specific stage. ● Detects and corrects student errors IAW FTI and standardization. ● Ensures student understands his/her errors and how to avoid them in the future.
23. Instructional Assistance	
<ul style="list-style-type: none"> ● Provide appropriate guidance to ensure mission completion and safety. 	<ul style="list-style-type: none"> ● Provides helpful techniques to student to improve airmanship and increase overall situational awareness. ● Assists student in decision-making process. ● Allows student to recognize mistakes. ● Allows student to correct self to maximum extent. ● Provides helpful techniques to improve student performance consistent with FTIs.
24. Aviation Training Jacket Review	
<ul style="list-style-type: none"> ● Perform thorough review of student training jacket, including previous simulator and flight grades. 	<ul style="list-style-type: none"> ● Demonstrates knowledge of syllabus and flight requirements (understands required MIF items to be performed). ● Recognizes overall student trends.
25. Grading	
<ul style="list-style-type: none"> ● Objective measure of performance for specific graded items for the event. 	<ul style="list-style-type: none"> ● Conducts all student training objectives IAW student master curriculum guide. ● Grades appropriately IAW established NAVPTS CTS. ● Completes grade sheet IAW applicable directive without error.

BEHAVIOR STATEMENT	STANDARDS
26. Debriefing	
<ul style="list-style-type: none"> ● Conduct thorough review of overall mission conduct and effectiveness. ● Review overall student performance and effectiveness. ● Provide instruction to correct student deficiencies. ● Document student performance. 	<ul style="list-style-type: none"> ● Demonstrates knowledge of syllabus and mission requirements. ● Recognizes overall student trends. ● Identifies student strengths/ weaknesses IAW FTIs and applicable directives. ● Presents strengths/weaknesses in a manner conducive to a positive learning environment. ● Describes how student strengths/ weaknesses contributed to mission effectiveness. ● Reviews overall strengths and weaknesses exhibited by the student for the mission event. ● Provides feedback to improve techniques and make subsequent events better. ● Proposes additional techniques, if applicable, to aid student comprehension of procedures and improve future performance.

BLANK PAGE

Chapter X

Master Materials List

1. Individually Issued Materials

<u>NOMENCLATURE</u>	<u>IDENTIFICATION</u>	<u>QTY PER STUDENT</u>
a. Master Curriculum Guide	CNATRAINST 1542.192	1
b. Master Curriculum Guide	CNATRAINST 1542.193	1
c. Master Curriculum Guide	CNATRAINST 1542.197	1
d. CNATRA Flight Training Instructions	Various	

2. Major Training Device. Multi-Crew Simulator (2B51) quantity controlled by Naval Air Warfare Center Training Systems Division (NAVAIRWARCENTRASYS DIV), Training Material Management Division, Inventory Control Branch.

CNATRAINST 1542.197
21 Apr 2023

BLANK PAGE