

**BY ORDER OF THE COMMANDER
33RD FIGHTER WING**



**AIR EDUCATION AND TRAINING
COMMAND INSTRUCTION 13-101V4**

**33RD FIGHTER WING
Supplement**

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Nuclear, Space, Missile, Command and Control

***F-15 CIVILIAN CSI PROGRAM FOR
BATTLE MANAGEMENT TRAINING***

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements and extends the guidance in AETCI 13-101, Volume 4, *F-15 Civilian CSI Program for Battle Management Training*. It applies to the 33d Fighter Wing (33 FW) and its subordinate units. With the exception of personnel participating in a Total Force Integration (TFI) Associate program, this publication does not apply to National Guard Bureau (NGB) or Air Force Reserve Command (AFRC) units and members unless specified by a major command (MAJCOM) Memorandum of Understanding. It establishes procedures and criteria for training, qualifying and evaluating Civilian Simulator Instructors (CSI) assigned to F-15 simulator and instructor duties in the 33 FW/337th Air Control Squadron (337 ACS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s through the appropriate functional chain of command to 337 ACS, 865 Beacon Beach Road, Tyndall AFB, FL 32403. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW the Air Force Records Disposition Schedule (RDS). This publication may not be supplemented or further implemented/extended.

1.4.3.1. Local training, qualification, and certification/evaluation requirements for all 337 ACS F-15C CSIs will be documented IAW this supplement. Details not specified in this supplement will be located in the CSI flight commander continuity book and/or management internal control toolset (MICT) assessment.

1.4.3.2. CSI training programs will be conducted IAW HQ AETC syllabi and the attachments to this supplement. Program modification may be warranted for events such as Undergraduate Air Battle Manager Training (UABMT) syllabus changes, observed performance trends or Full Mission Trainer (FMT) configuration changes.

1.4.3.3. The CSI flight commander will conduct an annual review of all applicable programs and associated guidance. The CSI flight commander will document the review on a memorandum for record (MFR) filed in the CSI flight commander continuity book and/or MICT. Recommended changes will be sent to the 33 OG/CC through the 337 ACS/CC.

1.4.4.1. CSI training programs are detailed in the attachments to this supplement. The CSI flight commander will modify each program based on upgrading CSI's (UCSI) background and proficiency as well as determine the start date and overlap for each CSI training program. An "individual training plan" will be forwarded for 337 ACS/CC for signature then maintained in the CSI's training folder until all requirements are accomplished and the CSI is certified on an AF Form 4348.

1.4.4.2. The CSI flight commander or assistant will conduct the CSI responsibilities briefing.

1.4.4.3. Following the successful completion of each training program, the CSI flight commander will update (as applicable) the CSI's AF Form 4348, AF Form 942 and AF Form 4324; as well as the Letter of Xs (LoX), and route the training folder to the 337 ACS/CC for review and signature.

1.4.4.4. The CSI flight commander will nominate eligible Instructor CSI (ICSI) candidates to the 337 ACS/CC. Once approved, the CSI flight commander will brief the upgrading ICSI on new responsibilities and will update the CSI's AF Form 4348 and the LoX. The new ICSI's training folder will be sent to the 337 ACS/CC for review and signature.

1.4.4.5. The CSI flight commander will nominate eligible CSI Evaluator (CSIE) candidates to the 337 ACS/CC. Once approved, the upgrading CSIE will complete the program contained in Attachment 8. Once the upgrade is complete, the CSI flight commander will update the CSI's AF Form 4348, AF Form 942 and AF Form 4324; as well as the LoX. The new CSIE's training folder will be sent to the 337 ACS/CC for review and signature.

1.4.4.6. The CSI flight commander will maintain an Academic LoX and a Positional LoX. The academic LoX will designate all lessons each CSI is certified (X) or in training (T) to teach with one CSI designated as the lead Subject Matter Expert (SME) (bold X) for the lesson. The positional LoX will designate as a minimum: F-15 and F-22 wingman, flight lead, and Instructor Operating Station (IOS) qualifications as well as ICSI and CSIE status.

1.4.4.7. Attachment 3 lists the levels of supervision required for each type of upgrade, certification and qualification.

1.4.4.8. The CSI flight commander will identify end-of-cycle CSI training deficiencies and recommend additional training, if warranted, to the 33 OG/CC through the 337 ACS/CC. The CSI flight commander will ensure additional training is accomplished and documented in the CSI's training folder.

1.4.5. Procedures for all CSI flight commander duties will be outlined in the CSI flight commander continuity book and/or MICT checklist.

1.5. Go/No-Go Procedures. CSI programmers will reference the LoX for CSI qualifications and Graduate Training Information System (GTIMS)/monthly CSI report for CSI currencies when building weekly schedules and prior to posting daily schedules. The CSI flight commander will monitor daily/weekly schedules to ensure individual CSIs are current and qualified for scheduled events. Ultimately, individual CSIs are responsible for ensuring they are current and qualified for scheduled events IAW paragraph 1.4.6.3.

1.5.3. The CSI flight commander will coordinate with 337 ACS/CCV and 33 OG/OGV to ensure applicable Flight Crew Information File (FCIF) and read file items are added to GTIMS Go/No-Go status. The CSI flight commander and programmer will check GTIMS Go/No-Go status at the start of each day. Additionally, each flight lead will check GTIMS Go/No-Go status for all participants in their mission before beginning their mission briefing.

2.2. CSI Training Programs. CSI training programs are detailed in the HQ AETC syllabus and/or the attachments to this supplement. The CSI flight commander will modify each program based on the UCI's experience and proficiency, as well as determine the start date and overlap for each CSI training program. An "individual training plan" will be forwarded for 337 ACS/CC signature then maintained in the CSI's training folder until all requirements are accomplished and the CSI is certified on an AF Form 4348.

2.2.1. The Initial Qualification Training (IQT) program will be IAW HQ AETC syllabus.

2.2.2.1. AF Form 4348 entry will read "BSI Program Complete" with SQ/CC certification.

2.2.2.2. The CSI flight commander may recommend waiving the Buddy Simulator Instructor (BSI) program after completion of the IQT program if warranted by the new CSI's performance (and the new CSI previously completed a Buddy Instructor Pilot/BSI program in the same Mission Design Series (MDS) aircraft or simulator). If a waiver is granted (by the Wing or Group Commander), it will be entered on the AF Form 4348 as "BSI Program Waived" with SQ/CC certification.

2.2.3. CSIs with previous F-15 experience will normally complete Flight Lead Upgrade (FLUG) directly to the 4-ship level. CSIs with limited or no previous F-15 experience may complete FLUG to the 2-ship level until more F-15 experience is attained, then accomplish 4-ship FLUG. The FLUG training program is located in Attachment 4.

2.2.4. The Academic Instructor (AI) training program is in Attachment 5.

2.2.5. The F-22 replication program is in Attachment 6.

2.2.5.3. Certification. On the final event in each phase of the F-22 upgrade program, the ICSI will make an entry on the GTIMs grade sheet stating: “Mr. XXXX is certified as an F-22 wingman/flight lead/IOS operator” and inform the flight scheduler. The CSI flight commander will update the LoX and the CSI’s Positional AF Form 4348.

2.2.6. The ICSI program is in Attachment 7.

2.2.7. The CSIE program is in Attachment 8.

2.3.2.7.1. **(Added)** 337 ACS/DON will maintain separate AF Form 4348s for positional qualifications and academic qualifications. Examples of AF Form 4348 entries are maintained by the CSI flight commander. Certifications obtained during the course of evaluations (documented on AF Form 8) do not require redundant documentation on the AF Form 4348.

2.3.2.7.2. **(Added)** A table of all certifications applicable to the flight and designated certifying officials is located at Attachment 3.

2.3.2.7.3. **(Added)** AF Form 4348 will be stored in the individual’s training folder (hard copy or electronic format). Certifying officials are IAW Attachment 3.

2.3.2.7.4. **(Added)** 337 ACS CSI certifications include: IQT (FMT and IOS), BSI, FLUG (2-ship and 4-ship), AI, F-22 (wingman, flight lead and IOS), ICSI and CSIE.

2.3.4. Training instructions and training folders will be maintained either hard copy or electronically by the CSI flight commander.

2.3.4.1. **(Added)** The F-15C CSI training folders will consist of individual six-part folders annotated with the CSI’s name and the Privacy Act notice affixed to the cover (Table 2.5.).

Table 2.5. (Added) CSI Training Folder Arrangement.

Section 1 will be arranged with the inside front cover having a list of initial reviews and annual reviews.
Section 2 will contain ongoing training programs, if applicable. Once an upgrade is complete and the CSI is certified on the AF Form 4348 and/or AF Form 8, completed upgrade records will be removed and given to the CSI.
Section 3 will contain AF Forms 4348 for FMT Positional Qualifications.
Section 4 will contain Positional Qualification certification records.
Section 5 will contain AF Forms 4348 for Academic Qualifications.
Section 6 will contain AETC Forms 281/620 and applicable training certificates (e.g. Battle Management Instructor Training (BMIT)).

2.3.5. The 337 ACS/DON scheduler will maintain all tracking products as directed by this AETC Instruction (AETCI) and the CSI flight commander.

2.8. **Training Cycle.** All requirements and currencies are reviewed and reported monthly to the 337 ACS/CC. CSIs who fall behind toward completion of semiannual requirements will be prioritized on the schedule until back on track to complete all requirements before the end of the training cycle. If a CSI fails to meet the semiannual requirements, the CSI flight commander will follow the procedures listed in paragraph 1.4.4.8.

2.9.1.2. CSI Continuation Training (CT) meetings are scheduled in GTIMS. The CSI flight commander will take attendance and back-brief any CSI who misses a scheduled CSI CT meeting.

3.2.1. CSIEs are designated on: Positional LoX, AF Form 8, AF Form 942, AF Form 4348 and AF Form 4324.

3.2.3.4. Pre-mission CSIE briefing items are listed on the CSIE evaluation worksheet maintained by the CSI flight commander.

3.2.3.8. CSIEs who miss a Standardization and Evaluation Board (SEB) will be sent a copy of the minutes. The CSIE will send an email reply to the CSI flight commander when the minutes have been read.

3.4.4.1. 337 ACS goal is for 10% of cumulative CSI recurring evaluations to be No-Notice (N/N) each calendar year.

3.6. **Documentation.** The CSI flight commander will maintain current AF Form 8 templates for each type of evaluation.

3.6.1.9.6. CSI evaluations require no "Additional Reviews".

3.6.2. Temporary AF Form-8 and evaluation worksheets are maintained by the CSI flight commander.

3.6.4.4. For commander-directed downgrades, the CSI flight commander will conduct an additional review.

3.7.2. The Flight Evaluation Folder (FEF) will contain no additional items except a minor discrepancy log (if minor discrepancies exist) on the left side and major discrepancy permanent MFRs (if major discrepancy MFRs exist) on the right side.

3.7.5.1. The initial review will be conducted by the CSI flight commander.

3.7.5.3. Periodic reviews will be conducted annually by the CSI flight commander.

TODD D. CANTERBURY, Colonel, USAF
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References******Adopted Forms***

AETC Form 281, *Instructor Evaluation Checklist*

AETC Form 620, *Academic Instructor Monitoring Checklist*

Prescribed Forms

None

Abbreviations and Acronyms

AETCI—Air Education and Training Command Instruction

CAF—Combat Air Forces

EC—Elimination Check

FI—Fighter Integration

FLUG—Flight Lead Upgrade

FW—Fighter Wing

IABM—Instructor Air Battle Manager

IAW—in accordance with

IQT—Initial Qualification Training

MICT—management internal control toolset

NGB—National Guard Bureau

NE—Non-Effective

N/N—No-Notice

PA—Proficiency Advance

PC—Progress Check

PFT—Program Flying Training

SEB—Standardization and Evaluation Board

TFI—Total Force Integration

UABMT—Undergraduate Air Battle Manager Training

UCSI—Upgrading Civilian Simulator Instructor

Attachment 3 (Added)

LEVELS OF SUPERVISION AND CERTIFICATION AUTHORITIES

Table A3.1. Levels of Supervision and Certification Authorities.

Event	Supervision	Certifying Official
IQT Upgrade	ICSI	n/a
MSN Evaluation	CSIE	SQ/CC via Form 8
IOS Evaluation	CSIE	SQ/CC via Form 8
BSI Upgrade	ICSI	SQ/CC via Form 4348
FLUG Upgrade	ICSI	n/a
FLUG Certification	CSIE	Flight Commander via Form 4348
F-22 Upgrade	ICSI	n/a
F-22 Certification	CSIE	Flight Commander via Form 4348
AI Certification	Lesson Certified ICSI or Instructor ABM (IABM)	Flight Commander via Form 4348
ICSI Briefings	Flight Commander or Assistant Flight Commander	SQ/CC via Form 4348
CSIE Upgrade	Flight Commander or Assistant Flight Commander	SQ/CC via Form 8
<p>Note: If the mission objectives include introduction to tasks or instruction to correct previous discrepancies, a highly experienced ICSI may be required. If mission objectives require direct supervision, the flight commander may be warranted.</p>		

Attachment 4 (Added)

337 ACS FLIGHT LEAD UPGRADE PROGRAM

Table A4.1. 337 ACS FLUG Program.

<i>Mission</i>	<i>Description</i>	<i>UABM Equivalent</i>
FLUG-1	2v1 F-15 ACM	ACM SIM-1
FLUG-2	2vX F-15 TI	TI SIM-2/3
FLUG-3	4vX F-15 TI (as #3)	TI SIM-7/8
FLUG-4	4+2vX F-15 OCA (as #3)	ACT SIM-3/4
FLUG-5	2v2 F-15 MITL (as Red-1 & Blue-1)	HP SIM-2
FLUG-6	4vX F-15 TI (as #1)	TI SIM-7/8
FLUG-7	4+2vX F-15 OCA (as #1)	ACT SIM-3/4
Flight Lead	Certification	ACT SIM-3/4

Notes:

1. CSIs in FLUG will train under the supervision of an ICSI until completing their certification.
2. The F-15 FMT missions flown in the 337 ACS W-ABM-BCS-TN syllabus will be used to model CSI FLUG missions.
3. FLUG rides may only be conducted during IABM CT or IQT. CSI FLUG missions **will not** be in conjunction with UABM Program Flying Training (PFT).
4. Flight Lead certification may be as a 2-ship lead any time after FLUG-5 or as a 4-ship lead after FLUG-7.

Attachment 5 (Added)

INITIAL ACADEMIC INSTRUCTOR TRAINING

Table A5.1. Initial Academic Instructor Training.

TRAINING/TASK
1. Complete BMIT (One Time Event)
2. Monitor Lesson
3. Self-Study / Build Instructor Guide
4. Practice Teach Class to a Lesson SME
5. Take Lesson or Block Test (must pass with 90% or better)
6. Certification By Lesson-Certified ICSI or IABM
<p>Notes:</p> <p>1. A recurring annual academic evaluation is required for one course the CSI teaches. The CSI must take the lesson/block test (and pass with a 90% or higher) for the course and in the same calendar month in which they get their recurring annual recertification.</p> <p>2. For any subsequent course after a CSI attains initial certification the requirements are as follows:</p> <ul style="list-style-type: none"> a. Self-study (coordinate with scheduling if you'd like to monitor the lesson). b. Take the lesson/block test (and pass with a 90% or higher). c. Inform the flight commander you are ready for certification. <p>3. Certification will be conducted by a lesson-certified ICSI / IABM and documented on an AETC Form 620, the academic LoX and on the CSI's AF Form 4348.</p>

Attachment 6 (Added)
F-22 REPLICATION UPGRADE

Table A6.1. F-22 Replication Upgrade Flow.

Ground Training	Description	
Raptor Academics-1	F-22 TI and Opposed SAT Academics with an F-22 CSI	
Raptor Academics-2	F-22 Replication Academics with an F-15 ICSI	
Fighter Integration(FI)-1	FI Mission Overview and Employment Standards with an F-15 ICSI	
Wingman		
<i>Mission</i>	<i>Description</i>	<i>UABM Equivalent</i>
RR -1	2vX F-22 TI	TI SIM-4/5/6
RR -2	2vX F-22 Opposed SAT	ACT SIM-1
RR -3	2vX F-22 DCA	ACT SIM-2
RR -4 (certification)	2v2 F-22 v F-15 Blue	HP SIM-1
Notes: F-22 Wingman rides will not be accomplished on UABM PFT missions.		
Flight lead		
<i>Mission</i>	<i>Description</i>	<i>UABM Equivalent</i>
RR -5	2vX F-22 TI	TI SIM-4/5/6
RR -6	2vX F-22 Opposed SAT	ACT SIM-1
RR -7	2vX F-22 DCA	ACT SIM-2
RR -8 (certification)	2v2 F-22 v F-15 Blue	HP SIM-1
Notes: F-22 FLUG rides will not be accomplished on UABM PFT missions.		
IOS		
<i>Mission</i>	<i>Description</i>	<i>UABM Equivalent</i>
RR -9 see	2vX F-22 TI	TI SIM-4/5/6
RR -9		
RR -10 see	2vX F-22 Opposed SAT	ACT SIM-1
RR -10		
RR -11 see	2vX F-22 DCA	ACT SIM-2
RR -11		
RR -12 see	2v2 F-22 v F-15	HP SIM-1

RR -12 (certification)		
<p>Notes:</p> <ol style="list-style-type: none"><li data-bbox="191 310 1279 373">1. F-22 IOS “SEE” and “DO” rides should be conducted in conjunction with UABM PFT missions.<li data-bbox="191 447 1230 510">2. IOS rides do not need to be accomplished in order, but the “SEE” ride must be accomplished before its corresponding “DO” ride.		

Attachment 7 (Added)**ICSI/BSI UPGRADE MINIMUM BRIEFING ITEMS**

A7.1. As an ICSI you will conduct qualification training for new CSIs in the FMT and on the IOS; this includes giving F-22 replication and FI academic briefs. You will lead the mission or run the console for UABM X-rides, Progress Checks (PCs) and Elimination Checks (ECs).

A7.2. CSI Upgrade Missions (IQT/FLUG/IOS)

A7.2.1. Pre-mission

A7.2.1.1. Review and initial previous grade sheets

A7.2.1.2. Master Training Plan kept in Scheduling (ensure UCSI is opted)

A7.2.2. Brief (30 minute telephone coordination brief)

A7.2.3. Execute (option to jump out and play back between runs or have IOS save each run and review after last run completed)

A7.2.4. Debrief (standard flight debrief then, ICSI w/ UCSI)

A7.2.5. Post mission

A7.2.5.1. Complete grade sheet

A7.2.5.2. Update Master Training Plan

A7.2.5.3. Inform the flight commander if the mission is Non-Effective (NE) or recommending a Proficiency Advance (PA)

A7.3. BSI IOS mission differences

A7.3.1. Still give a thorough debrief, but no grade sheet

A7.3.2. Log on upgrade tracker and pass any trends/major observations

A7.4. F-22 replication briefing

A7.4.1. Classified Employment Standards

A7.4.2. How to work Eagle avionics (+IOS inputs) to emulate 5th Generation capabilities

A7.4.3. Common errors

A7.5. FI/Combat Air Forces (CAF) missions

A7.5.1. AFTTP 3-1, Vol 4 located in Bldg 546A

A7.5.2. Available academics

A7.5.3. Option for 1 or 2v X TI missions

A7.5.4. FI Standards briefing before the UCSI's first FI mission

A7.6. UABM PC/EC missions

A7.6.1. IABM holds the hammer like any other mission

A7.6.2. Know the syllabus/mission guide cold

A7.6.3. Stay within the guidelines

A7.6.4. Select debrief wording very carefully

A7.7. Raptor Replication Upgrade rides

A7.7.1. If there is doubt concerning the UCSI's knowledge or abilities, notify the flight commander and he will schedule an additional ride

Attachment 8 (Added)
CSIE UPGRADE PROGRAM

A8.1. As a CSIE, you are now certified to conduct positional certifications and evaluations in the FMT and on the IOS.

A8.2. CSIE upgrade program:

A8.2.1. Observe a CSIE conduct a MSN Evaluation

A8.2.2. Conduct a MSN Evaluation observed by a CSIE

A8.2.3. Observe a CSIE conduct an IOS Evaluation

A8.2.4. Conduct an IOS Evaluation observed by a CSIE

A8.2.5. After all of the above are completed, a single AF Form 8 is generated certifying the new CSIE status. This is a one-time requirement.

A8.3. Evaluations: Mission and IOS; Initial and Periodic

A8.3.1. Pre-Evaluation Briefing with Examinee

A8.3.2. Paperwork: Temp Form-8 (get from flight commander)

A8.3.3. Grading: Standards and required items are listed in AETCI 13-101, Vol 4

A8.3.4. Mission brief: Talk to the flight lead/IOS operator for wingman evaluations and explain what you need to see

A8.3.5. Mission Execution: You will be on the examinees console in LCS mode

A8.3.6. Debrief: Observe the flight debrief

A8.3.7. CSIE debrief: After the flight lead releases everyone, debrief the examinee 1-on-1 (bring in the flight commander for a Q2/Q3 and the DO or CC if you have a Q3)

A8.4. Certifications: 2-ship Flight Lead / 4-ship Flight Lead / F-22 Replication

A8.4.1. Pre-Evaluation Briefing with UCSI

A8.4.2. Paperwork:

A8.4.3. Standard certification form for FLUG-7 (get from flight commander)

A8.4.4. GTIMS grade sheet for F-22 replication certifications: IQT-10, FLUG-11, IOS-9

A8.4.5. If you are uncomfortable with the CSI's ability to perform the duties being certified then do not call the mission effective

A8.4.6. Even for "effective" certifications, conduct a thorough debrief with the UCSI to increase their skill sets