

**BY ORDER OF THE
SECRETARY OF THE AIR FORCE**

**AIR FORCE MANUAL 13-1 CRC
VOLUME 2**



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***Nuclear, Space, Missile, Command and
Control***

***CONTROL AND REPORTING CENTER
(CRC) - EVALUATION CRITERIA***

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This publication implements Department of the Air Force Policy Directive (DAFPD) 13-1, *Command and Control Enterprise (C2) Enterprise*. This publication gives standardization/evaluation examiners (SEE) and crewmembers performance standards and procedures for conducting positional evaluations. This publication applies to all civilian employees and uniformed members of the Regular Air Force and Air National Guard (ANG). This manual does not apply to the Air Force Reserve or United States Space Force. This publication does not apply to Air Education and Training Command (AETC) formal training unit (FTU) operations. AETC may refer to this publication to ensure equitable standards and commonality in development of Control and Reporting Center (CRC) FTU evaluation criteria, policies, and programs. Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Department of the Air Force (DAF) Form 847, *Recommendation for Change of Publication*; route DAF Forms 847 from the field through the appropriate functional chain of command. Major commands (MAJCOMs), Field Operating Agencies (FOAs), Headquarters Air Force (HAF) Direct Reporting Units (DRUs), and subordinate organizations may supplement this publication. MAJCOMs, FOAs, and DRUs will coordinate their supplements to this publication with the OPR for this publication before publishing; subordinate organizations will coordinate their supplements with parent organizations. See [paragraph 1.3](#) for additional guidance on supplements. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“T-0, T-1, T-2,

T-3”) number following the compliance statement. See Department of the Air Force Manual (DAFMAN) 90-161, *Publishing Processes and Procedures*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the requestor’s commander for non-tiered compliance items. Commanders may waive non-tiered requirements but must send a copy of the approved waiver to the OPR of the higher headquarters (HHQ) publication being waived (see DAFMAN 90-161, paragraph 9.6.2) within 30 days of approval.

SUMMARY OF CHANGES

This updated manual incorporates substantial revisions and should be reviewed in its entirety. Significant changes include: the removal of Mission Commander and Senior System Operator evaluation grading areas, grading area alignment between Air Battle Managers (ABMs) and Weapons Directors (WDs) (allowing instruction/evaluation of shared areas), continuum of control replaced counterair and counterland control areas, tactical data link criteria added to ABM/WD Air/Ground Picture Management and Continuum of Control (removed as standalone area for ABM/WDs) and aligned ABM/WD/Mission Systems Operator (MSO) grading areas. Additionally, the OPR has been moved to the Air Combat Command Standardization Branch (ACC/A3TV).

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Chapter 1

GENERAL INFORMATION

1.1. General. This volume, in conjunction with AFMAN 13-1 GBMC2 Volume 2, *Ground Battle Management Command and Control (GBMC2) Standardization/Evaluation Program*, provides both the SEE and examinee with procedures and evaluation criteria for use during positional evaluations Initial Qualification (INIT QUAL), Qualification (QUAL), Mission Qualification (MSN), Requalification (RQ), and Spot Evaluations. Specific areas are prescribed to ensure an accurate assessment of the proficiency and capabilities of operations personnel. SEEs and examinees are to be thoroughly familiar with the prescribed rating criteria in both manuals.

1.1.1. The criteria apply to all Active Component and ANG, Combat Mission Ready (CMR), and Basic Mission Capable (BMC) operations crew members performing duties within the CRC and DRUs. Throughout this publication, Air Force Specialty Code 13B refers to Air Battle Manager (ABM), Air Force Specialty Code 1C5X1D refers to Weapons Director (WD), and Air Force Specialty Code 1C5X1 refers to Command and Control Battle Management Operators.

1.1.2. Offices of Collateral Responsibility for this publication are Pacific Air Forces Theater Air Control System Command and Control Branch (PACAF/A3/10), United States Air Forces in Europe–Air Forces Africa Joint All-Domain Command and Control Management Branch (USAFE-AFAFRICA/A3ZJ), and National Guard Bureau Airfield Operations and Command and Control Forces Division (NGB A3/10). This publication does not apply to AETC FTU operations. AETC may use this manual as a reference for purpose of ensuring uniformity and commonality in development of CRC FTU evaluation criteria, policies, and programs. AETC 13 series instructions relating to CRC evaluations will be routed to Air Combat Command Standardization Branch (ACC/A3TV) for coordination prior to certification and approval.

1.2. Roles and Responsibilities.

1.2.1. Air Combat Command, Director of Operations (ACC/A3). ACC is designated Lead Command for the CRC. ACC/A3TV is the OPR for this volume and will:

1.2.1.1. Process and coordinate changes to this volume with user commands and forward for approval to Air Force Exercises and Training Directorate (AF/A3TE). Specific procedures will be in accordance with [paragraph 1.3](#) of this volume.

1.2.1.2. Address time sensitive changes by Air Force Guidance Memorandum (AFGM). Coordinate AFGM with NGB A3/10, 19th Air Force Standardization and Evaluation Division (19 AF/A3V), USAFE-AFAFRICA/A3ZJ and PACAF/A3/10 to ensure appropriate guidance can be issued in those MAJCOMs.

1.2.1.3. Provide overarching guidance and monitor the overall evaluation criteria.

1.2.1.4. Provide command assistance in the resolution of evaluation criteria problems.

1.2.1.5. Provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria to include ACC-gained units.

1.2.2. USAFE-AFAFRICA/A3ZJ and Pacific Air Forces (Pacific Air Forces Air and Cyberspace Operations Branch [PACAF/A3/6C]) will:

1.2.2.1. Provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria.

1.2.2.2. Ensure MAJCOM supplements to this volume are sent to Air Combat Command, Command and Control Intelligence Surveillance and Reconnaissance Division (ACC/A3C) for coordination prior to Air Force Training and Readiness Directorate (AF/A3T) coordination.

1.2.2.3. As the theater OPR for MAJCOM level evaluation criteria matters, provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria.

1.2.3. NGB A3/10 will:

1.2.3.1. Ensure ANG supplements to this volume are sent to ACC/A3C for coordination prior to AF/A3T approval.

1.2.3.2. Receive information copies of waiver requests from ACC-gained units, unless specifically noted otherwise.

1.2.4. Group Commanders will:

1.2.4.1. Manage unit Standardization/Evaluations (Stan/Evals) in accordance with AFMAN 13-1GBMC2V2.

1.2.4.2. Conduct unit Stan/Evals in accordance with AFMAN 13-1GBMC2V2.

1.2.5. Squadron Commanders will:

1.2.5.1. Ensure positional evaluations are conducted and documented in accordance with AFMAN 13-1GBMC2V2.

1.2.5.2. Ensure personnel/crews are evaluated to a level of mission/combat readiness that meets unit type code mission capability statements and Mission Essential Task readiness requirements.

1.3. Supplements.

1.3.1. MAJCOM/A3s will approve MAJCOM supplements. Supplements will not contain procedures that are contrary to this manual.

1.3.2. Units, with Numbered Air Force oversight, will forward their supplements through appropriate channels to the Numbered Air Force and respective MAJCOMs for review, coordination, and approval. **(T-3)** ANG units will coordinate their supplement with NGB A3/10 as well as the Numbered Air Force with Stan/Eval oversight responsibility. **(T-2)** The Numbered Air Force with Stan/Eval oversight responsibility will be the approval authority for unit supplements and will provide the applicable MAJCOM a copy of the approved supplement. **(T-2)**

1.3.2.1. Direct reporting units will specify their equivalent/unique duty positions and evaluation requirements in their unit supplement. **(T-2)**

1.3.2.2. Supplementary guidance will not be less restrictive than the basic publication but can be more restrictive. **(T-2)**

1.3.2.3. Supplemental guidance will not contradict the basic publication. **(T-2)**

1.4. Procedures.

1.4.1. Evaluation Methods. The primary methods of determining the examinee's level of job knowledge and proficiency are academic testing and observation of job performance. The questioning of examinees during the positional portion of the evaluation will be limited to items not determined by observation but related to the scenarios being employed for evaluation. **(T-3)**

1.4.2. Examiners will reference this manual to conduct evaluations. They will administer evaluations of those mission/skill sets in which they maintain qualification, unless specifically authorized in this manual. Examiners must be qualified and current to perform positional evaluations. **(T-3)** This excludes objectivity evaluations, as they are used to assess the skill of an examiner while administering an evaluation, requiring only a certification as an examiner. **Note:** Evaluations may be accomplished on the CRC portion of the Consolidated Simulation Building (CSB) located at Tinker Air Force Base; or any facility or system utilizing the Battlespace Command and Control Center - Air Force (BC3-AF), or other Air Combat Command Ground Battle Management Branch (ACC/A3CG) approved like system outlined in the CRC Ready Aircrew Program Tasking Memorandum.

1.4.3. Evaluation Procedures.

1.4.3.1. Prior to Evaluation. The SEE explains the purpose of the evaluation and how it is conducted. The examinee will accomplish all mission planning appropriate for the type of evaluation. **(T-3)**

1.4.3.2. During Evaluation. The SEE will evaluate the examinee's performance for each graded area and note discrepancies when deviations from prescribed performance criteria occur during the evaluation. **(T-3)**

1.4.3.3. Post Evaluation. The SEE will match the examinee's performance with the grading criteria and will assign an appropriate grade for each area. **(T-3)** The judgment of the SEE will be the determining factor in assigning an overall grade for the examinee's performance. **(T-3)** The SEE will consider cumulative momentary deviations. **(T-3)** The SEE will critique all aspects of the evaluation. **(T-3)** During this critique, the SEE will review the examinee's overall rating, specific deviations, area grades assigned, and any additional training which the examinee will be required to complete. **(T-3)** All initial qualification or initial instructor evaluations resulting in Exceptionally Qualified (EQ), Qualified 2 (Q2), or Qualified 3 (Q3) will be debriefed with the examinee's squadron commander/operations officer (or designated representative). **(T-3)**

1.4.3.4. The examiner will not occupy a primary crew position during the evaluation. **(T-3)**

1.4.4. Evaluations will be accepted between ACC, USAFE-AFAFRICA, AETC, and ANG CRCs. **(T-3)** Unit examiners may give evaluations outside of their organization, to include administering evaluations outside of their MAJCOM. If administering evaluations outside of the examiner's MAJCOM, the evaluation will be specifically requested by the MAJCOM

Stan/Eval organization of the examinee and approved by the MAJCOM Stan/Eval organization of the examiner in accordance with AFMAN 13-1GBMC2V2.

1.4.5. SEE Objectivity Evaluations. Examiners will reference AFMAN 13-1GBMC2V2 for SEE Objectivity Evaluations criteria. **(T-3)**

1.5. Grading Policies.

1.5.1. Examiners will use the rating policy contained in AFMAN 13-1GBMC2V2 and the evaluation criteria in this manual for conducting evaluations. **(T-2)** Use of these criteria will ensure standard and objective evaluations are administered to crew members. **(T-2)** SEEs and crewmembers will be thoroughly familiar with the prescribed grading criteria in this manual. A three-tier grading system (Q, Q-, or Unqualified (U)) will be used for all areas except those designated as CRITICAL, in which case a two-tier grading system (Q or U) will be used. **(T-2)** An overall rating of Q-3 could result from an unqualified rating of a single critical or multiple noncritical areas.

1.5.2. Critical Areas. Critical areas are defined as events that require adequate accomplishment by the examinee to successfully achieve the mission objectives and complete the evaluation. If an examinee receives a “U” grade in any critical area, the overall grade for the evaluation will also be unqualified. **(T-3)** Critical areas are identified by “(CRITICAL)” following the applicable area title.

1.5.3. Crewmembers receiving an overall Q-3 on either their QUAL or MSN evaluation will be immediately downgraded to unqualified status and must complete a RQ. **(T-3)** See AFMAN 13-1GBMC2V2 for additional guidance on RQ evaluations.

Chapter 2

EVALUATION REQUIREMENTS

2.1. General. All evaluations follow the guidelines set in AFMAN 13-1GBMC2V2. Evaluation requirements are depicted in each crew position's evaluation criteria section.

2.1.1. Required Evaluation Areas. Required evaluation areas are defined as all areas (and associated sub-areas) annotated with an “R” in this document. The examiner will evaluate the examinee’s performance in all required areas. **(T-3)** If an alternate evaluation method is used, the examiner will document the method under the Mission Description paragraph in the Comments section of the Air Force (AF) Form 8, *Certification of Aircrew Qualification*, in accordance with AFMAN 13-1GBMC2V2. **(T-3)**

2.1.2. Examiners will make every effort, including the use of multi-part evaluations, to evaluate all required areas during the live/virtual portion before resorting to alternate methods. **(T-3)** If it is infeasible to accomplish a required area (e.g., aircraft emergency during a live mission), and an alternate evaluation method is used (e.g., verbally or simulation), the examiner documents the method under the Mission Description paragraph in the Comments section of the AF Form 8 in accordance with AFMAN 13-1GBMC2V2. **(T-3)**

2.2. Requisites. The following QUAL evaluation requisites are common to all crew positions and will be accomplished in accordance with AFMAN 13-1GBMC2V2 and unit directives. The examinee must satisfy all requisites to complete periodic evaluations. **(T-2)** See AFMAN 13-1GBMC2V2 for these requirements. Requisites will be recorded under the Requisite Information area, Section II of the AF Form 8. **(T-2)** Closed book exam questions will come from Master Question File/Local Operating Procedures/All Crew Master Question File. **(T-3)** For initial evaluations, all academic examinations will be completed prior to any positional portions of the evaluation. **(T-3)** For RQ evaluations the written examinations will be completed at the discretion of the Chief, Stan/Eval, but within their eligibility period. **(T-3)** Crewmembers with more than one qualification will complete all applicable closed book exams. **(T-3)**

2.3. Mission Qualification (MSN) Evaluation. The MSN evaluation will be conducted in accordance with AFMAN 13-1GBMC2V2. **(T-3)** Crewmembers with more than one qualification will complete the MSN evaluation in all applicable crew positions. **(T-3)**

2.3.1. Mission Profiles. When conducting positional evaluations, the mission profiles used should accurately reflect the unit’s day-to-day training operations, the unit’s designed operational capabilities, provide a realistic assessment of the examinee’s skills, and evaluate the examinee's application of current tactics. **(T-3)**

2.3.2. Mission Simulator Evaluations. Simulations (SIMs) may be used to administer any portion of a positional evaluation not requiring a specific live/virtual scenario. Unit SEEs will identify existing SIM scenarios which include adequate activity to meet the evaluation requirements for the required events. **(T-3)** If adequate scenarios do not exist, unit Stan/Eval personnel will develop scenario outlines for the simulation activity to be conducted to ensure standardization of both the level of activity and the difficulty for SIM evaluations. **(T-3)**

2.4. Instructor Evaluation. All crewmembers selected for instructor duty must be evaluated to determine their judgment, technical knowledge, instructor ability (including error analysis of student activity), and use of grading documents as well as proficiency in their duty position. **(T-3)** To initially qualify as an instructor, a crewmember must successfully complete an initial instructor evaluation. **(T-2)** Subsequent evaluations of instructors are conducted during recurring evaluations in which individuals are qualified to instruct.

2.4.1. Instructors must demonstrate proficiency by instructing a student (or qualified individual acting as a student). **(T-3)** Instructor examinees must demonstrate the ability to instruct during mission planning and mission execution. **(T-3)** The examiner may require the examinee to present verbal explanations of equipment operations, procedures, and techniques pertinent to their crew position duties and responsibilities.

2.4.2. Instructor evaluations will be conducted with a student occupying the crew position whenever possible. **(T-3)** The student performs those duties prescribed by the instructor for the mission being accomplished. **(T-3)** The instructor examinee monitors all phases of the mission from an advantageous position and will be prepared to demonstrate or explain any area or procedure. **(T-3)** The SEE will particularly note the instructor's ability to recognize student difficulties and provide effective, timely corrective action. **(T-3)** Recurring evaluations will be administered in conjunction with required qualification evaluations and will include all areas using both qualification and instructor criteria. **(T-3)**

2.4.3. During QUAL evaluations of qualified instructors, the examinee must assume the crew position for a period of sufficient length to demonstrate proficiency in the crew position. **(T-3)** The determination of what represents a sufficient length of time is left to the judgment of the SEE. The portion of the mission during which the examinee will occupy the seat position can be determined by the SEE during mission planning or during the mission.

2.4.4. All instructors will be graded using the criteria in paragraphs [2.4.4.1](#) through [2.4.4.3](#) below. **(T-3)**

2.4.4.1. Instructor Knowledge.

2.4.4.1.1. **Q** . Demonstrated thorough knowledge of procedures, regulations, requirements, mission systems/performance characteristics, and tactics beyond that expected of non-instructors.

2.4.4.1.2. **Q-** . Deficiencies in depth of knowledge, comprehension of procedures, regulations, requirements, mission systems/performance characteristics, and tactics. Minor discrepancies did not affect safety or adversely affect student progress.

2.4.4.1.3. **U** . Unfamiliar with procedures, regulations, requirements, mission systems/performance characteristics, and tactics. Lack of knowledge in certain areas seriously detracted from instructor effectiveness. Deviations affected safety or adversely affect student progress.

2.4.4.2. Ability to Instruct.

2.4.4.2.1. **Q** . Demonstrated excellent instructor ability. Clearly defined all mission requirements and any required additional training/corrective action. Instruction was accurate, effective, and timely. Maintained mission situation awareness while communicating effectively to provide guidance or prevent mission degradations.

2.4.4.2.2. **Q-** . Deficiencies with instructor ability. Did not clearly define mission requirements and/or required additional training/corrective action. Provided untimely or inappropriate corrective guidance in minor areas or managed time poorly. Had difficulty planning and providing inputs/communicating to prevent mission degradation. Minor discrepancies did not adversely affect safety or mission accomplishment, or adversely affect student progress.

2.4.4.2.3. **U** . Demonstrated inadequate ability to instruct. Unable to perform, teach or assess techniques, procedures, systems use or tactics. Did not provide corrective guidance where necessary. Did not plan or anticipate student problems. Did not maintain mission situational awareness. Failed to effectively communicate with the student. Deviations adversely affected safety or mission accomplishment or adversely affected student progress.

2.4.4.3. Briefing/Debriefing.

2.4.4.3.1. **Q** . Briefings/debriefings and critiques were well organized, accurate, and thorough. Made excellent use of training aids as necessary. Clearly defined objectives. Gave corrective guidance with positive and negative performance feedback at appropriate times—improvement feedback was specific, objective, based on observable behavior, and given constructively. Offered excellent mission reconstruction and analysis of events. Debrief re-capped key points/compared mission's results with objectives. When appropriate, took the initiative and time to share operational knowledge and experience.

2.4.4.3.2. **Q-** . Minor errors or omissions in briefings/debriefings or critiques. Unclear objectives. Some corrective feedback guidance but was not always given constructively or at appropriate times. Offered poor mission reconstruction and/or analysis of events. Debrief covered objectives and mission highlights with minor errors or omissions. Minor discrepancies did not affect safety or adversely affect student progress.

2.4.4.3.3. **U** . Major errors or omissions in briefings/debriefing and critiques were marginal or nonexistent. Failed to utilize training aids/references correctly when necessary. Failed to define objectives. Feedback guidance not given, or given in a poorly timed, incomplete, inaccurate, and/or confusing manner. Failed to adequately provide mission reconstruction and/or analysis of events or elected not to debrief entirely. Major discrepancies adversely affected safety and/or student progress.

2.4.4.4. Training Forms Preparation/Documentation.

2.4.4.4.1. **Q** . Reviewed student's training folder, past performance, and assessed current training level of training. Accurately defined mission events to be performed as required. Comments were clear, comprehensive, pertinent, and adequately assessed recorded performance relative to standards/prescribed directives. Completed training documentation appropriately and accurately.

2.4.4.4.2. **Q-** . Reviewed student's training folder, past performance, and assessed current level of training with minor errors or omissions. Defined mission events to be performed as required, but with minor errors or omissions. Comments were incomplete or slightly unclear. Completed training documentation with minor errors or omissions that did not adversely impact student training.

2.4.4.4.3. U . Did not review student's training folder, past performance, or assess current level of training. Failed to define mission events to be performed when required or with major errors or omissions. Comments were incomplete, invalid, unclear, and/or did not accurately document performance. Assigned grades did not reflect actual student performance. Did not complete required forms and/or training documentation contained major discrepancies that adversely impacted student training.

Chapter 3

AIR BATTLE MANAGER EVALUATIONS

3.1. General. This chapter contains the criteria specifying the tasks required of a qualified ABM in accordance with AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 3.1** for ABM and Instructor ABM.

3.1.1. Evaluation Objectives .

3.1.1.1. Qualification Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** QUAL evaluations will encompass all areas identified in **Table 3.1**. **(T-3)** When possible, the evaluation should be conducted with a full operations crew as defined in AFMAN 13-1 CRC Volume 3, *Operating Procedures Control and Reporting Center (CRC)* Table 6.1. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the QUAL evaluation to ensure adequate crew coordination is accomplished. **(T-3)** This will be documented in the Mission Description of the AF Form 8 (Section VIII). **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)** ABM qualification evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** ABM qualification evaluations will be conducted on blue air side only to properly evaluate blue control with fighters operating blue air tactics. **(T-3)** When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming should be simulated. **(T-3) Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (for example sensor knowledge, system capabilities) and an ability to effectively employ that system.

3.1.1.2. Mission Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)** Based on the examinee's experience level, an ABM may be required to brief (to include tactics) and or lead certain phases of the mission. Section Leads (SLs) will be required to brief (to include tactics) and/or lead certain phases of the mission. **(T-3)** Mission evaluations will encompass all areas identified in **Table 3.1** for the mission profile performed. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)** Mission evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, MSN evaluations will replicate large force employment scenarios with supporting theater documents (special instructions (SPINS), rules of engagement (ROE), air tasking orders (ATOs)/airspace control orders (ACOs), etc.), mission packages, command and control electronic warfare and HHQ integration. **(T-3)** The evaluation should include participation of at least one or more external theater air control system units

and, when possible, conducted with a full operational crew as defined in AFMAN 13-1CRCV3, Table 6.1. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort to maintain mission qualification status with the concurrence of the examinee, and the deployed and unit commander. When a full operations crew is used, an Air Defense Artillery (ADA) interface may be simulated. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the MSN evaluation to ensure adequate crew coordination is accomplished. **(T-3)** This is documented in the Mission Description of the AF Form 8. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming will be simulated. **(T-3) Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (for example crew coordination, battle management, sensor employment).

3.1.2. ABM examinees will be evaluated according to their highest certification with evaluation profiles developed by the unit. **(T-3)** The examinee must control a mission that includes counterair or counterland and air refueling; or is sufficiently complex enough to meet intent in accordance with [paragraphs 3.1.1.1.](#), [paragraph 3.1.1.2.](#), and [paragraph 3.1.2.3.](#) Examples include but not limited to Large Force Employments (LFEs), Tanker Management Scenarios (4 or more tankers simultaneously with multiple fraged receivers), or dynamic lane defense missions. Crewmembers, regardless of designation as CMR or BMC will complete both QUAL and MSN evaluations. **(T-3)** A single mission can satisfy both QUAL and MSN requirements without having the examinee control separate events.

3.1.2.1. ABM. Examinee should conduct weapons activity as an Air-to-Air, planned Air-to-Ground/Surface, or Dynamic Air-to-Ground/Surface controller as determined by the examiner.

3.1.2.1.1. Counterair missions will be conducted where examinees provide tactical or broadcast control as briefed by the aircrew. **(T-3)** The control will be provided to at least two separate fighters/elements simultaneously committed against a minimum of two targets. **(T-3)** The examiner will ensure the examinee participates in all phases of the mission. **(T-3) Note:** It is not a requirement for this mission to result in a maneuvering dogfight.

3.1.2.1.2. Counterland missions require the examinee to direct at least one flight of aircraft conducting air-to-surface tactics against a ground objective. The examinee will control the flight from check-in to the prosecution of at least one objective. **(T-3)** A counterland mission must include the following elements:

3.1.2.1.2.1. Airspace management: Assigning altitude blocks and/or safe deconfliction between aircraft (manned/unmanned). **(T-3)**

3.1.2.1.2.2. Target Area Brief: Air or ground picture and the objective area. **(T-3)**

3.1.2.1.2.3. Dynamic/Deliberate Tasking: Updated or pre-planned objective. **(T-3)**

3.1.2.1.2.4. Mission Report: Mission report. **(T-3)**

3.1.2.1.3. Air refueling missions require control of at least one tanker and receiver simultaneously, with at least two receivers (dynamic or fraged) total per scenario.

SEEs retain the option for additional fraggd receivers or dynamic rendezvous at SEE's discretion.

3.1.2.2. SL. Examinee will supervise a team conducting tactical control. **(T-3)**

3.1.2.3. There will be instances where an examinee during the mission, accomplishes all areas required for both the QUAL and the MSN evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3)** Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3)**

3.1.2.4. ABM examiners (no certification) may conduct evaluations on ABM and WD crewmembers.

3.1.2.5. ABM examiners with SL certifications may conduct evaluations on ABM, SL, and WD crewmembers (unless restricted by the unit Letter of Certification/Qualification [LoX]).

Table 3.1. ABM Evaluation Areas.

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Crew Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Battle Management	R		R
14. Air/Ground Picture Management	R		R
15. Database/System Operations	R		R
16. Sensor Operations	R		
17. Airspace Management	R		R
18. Assumption of Control	R		R
19. Continuum of Control	R		R
20. Air Refueling			R
21. Section Leadership	R ²		R ²
Instructor Areas¹			
22. Instructor Knowledge	R	R	R
23. Ability to Instruct	R	R	R
24. Briefing/Debriefing	R	R	R
25. Training Forms Preparation/Documentation	R	R	R
R - Required evaluation area.			
Notes:			
1. Only required for instructor qualified crew members. A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			
2. SL Only.			

3.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFMAN 13-1GBMC2V2 and any criteria listed within the individual areas. (T-2)

3.2.1. Area 1: Mission Planning.

3.2.1.1. ABM.

3.2.1.1.1. **Q** . Extracted information from mission planning documents required to plan and execute the tasked mission in accordance with Air Force Tactics, Technique, and Procedures (AFTTP) 3-3.IPE, *Integrated Planning and Employment (IPE)* and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the flight/crew information file (FCIF) and/or read files.

3.2.1.1.2. **Q-** . Extracted information from mission planning documents required to plan and execute the tasked mission. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.1.1.3. **U** . Failed to extract mission planning information required to execute the tasked mission. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

3.2.1.2. SL.

3.2.1.2.1. **Q** . Directed planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Provided crew guidance on theater resources and documents such as the Operations Plan (OPLAN), ATO/ACO, Operational Tasking Data Links (OPTASKLINK), SPINS and other mission specific documents, procedures, and taskings. Obtained equipment status and determined impact on operational mission. Read, initialed, and ensured the mission crew read and initialed all items in the FCIF and/or read files.

3.2.1.2.2. **Q-** . Directed planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Provided crew guidance on theater resources and documents such as the OPLAN, ATO/ACO, OPTASKLINK, SPINS and other mission specific documents, procedures, and taskings. Obtained equipment status and determined impact on operational mission. Read, initialed, and ensured the mission crew read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.1.2.3. **U** . Failed to direct planning efforts. Failed to determine mission tasking, ROE, chain of command, and battle plans from mission planning documents. Did not provide crew guidance on theater resources and documents such as the OPLAN, ATO/ACO, OPTASKLINK, SPINS and other mission specific documents, procedures, and taskings. Failed to obtain equipment status and determine impact on operational

mission. Failed to read, initial and/or ensure the mission crew read and initialed all items in the FCIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.2. Area 2: Briefing/Debriefing.

3.2.2.1. **Q** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefing in accordance with applicable directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

3.2.2.2. **Q-** . Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish, nor maintain team concept or environment for open communications and feedback.

3.2.2.3. **U** . Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

3.2.3. Area 3: Equipment Setup and Checkout.

3.2.3.1. **Q** . Ensured operational checks were completed on all equipment before the mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with positional checklist. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Approved changes to database information.

3.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before the mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with positional checklist. Setup and operated the display/workstation to optimize situational awareness in accordance with checklists. Approved changes to database information. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before the mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure communications equipment for operations as required and accessed as needed in accordance with positional checklist.

Failed to setup and operate the display/workstation to optimize situational awareness in accordance with checklists. Failed to approve changes to database information. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.4. Area 4: Console Operations and Displays.

3.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness.

3.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not use situation displays to optimize situational awareness. Committed errors or omissions that jeopardized mission accomplishment.

3.2.5. Area 5: Positional Changeover Briefing.

3.2.5.1. **Q** . Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

3.2.5.2. **Q-** . Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.5.3. **U** . Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing in accordance with positional checklist. Committed errors or omissions that jeopardized mission accomplishment.

3.2.6. Area 6: Emergency Action Procedures and Equipment.

3.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

3.2.6.2. **Q-** . Committed errors, omissions, or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

3.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

3.2.7. Area 7: Authentication Procedures.

3.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

3.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

3.2.8. Area 8: Security/Communications Security (COMSEC) (CRITICAL).

3.2.8.1. **Q** . Controlled COMSEC in accordance with established procedures.

3.2.8.2. **U** . Failed to control COMSEC in accordance with established procedures.

3.2.9. Area 9: Safety (CRITICAL).

3.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and radiation safety hazards. Located and explained the proper use of fire extinguishers.

3.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and/or explain proper use of fire extinguishers. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

3.2.10. Area 10: Aircraft Emergency (CRITICAL).

3.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Entered the appropriate emergency point on the scope. Coordinated responses in accordance with an emergency checklist. Notified crewmembers of the aircraft emergency.

3.2.10.2. **U** . Failed to recognize the existence of an aircraft emergency. Did not ensure assistance to controlled aircraft experiencing an emergency in a timely manner. Did not ensure entry of the appropriate emergency point on the scope. Failed to coordinate responses in accordance with an emergency checklist. Failed to notify crewmembers of the aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

3.2.11. Area 11: Crew Coordination (CRITICAL).

3.2.11.1. ABM.

3.2.11.1.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-section as required.

3.2.11.1.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and failed to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-section as required.

3.2.11.2. SL.

3.2.11.2.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required. Crew communications were clear, concise, and without misunderstanding.

3.2.11.2.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections. Crew communications were not clear, or concise, resulting in misunderstanding of the tasked mission. Committed errors or omissions that jeopardized mission accomplishment.

3.2.12. Area 12: Crew Discipline (CRITICAL).

3.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

3.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

3.2.13. Area 13: Battle Management.

3.2.13.1. ABM.

3.2.13.1.1. **Q** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established combat air patrol (CAP) and hand-over/recovery points as required. Managed air refueling assets and area of responsibility (AOR) fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Detected, identified, reported, and tracked air traffic within the assigned area. Recognized or responded to an emissions control (EMCON) plan profile warning and notified the crew. Complied with EMCON plan.

3.2.13.1.2. **Q-** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Detected, identified, reported, and tracked air traffic within the assigned area. Recognized or responded to an EMCON plan profile warning and notified the crew. Complied with EMCON plan. Committed errors or omission that did not adversely affect mission accomplishment.

3.2.13.1.3. **U** . Failed to commit weapons resources to counter the threat in accordance with theater ROE. Failed to coordinate and/or establish CAP and hand-over/recovery points as required. Failed to manage air refueling assets and AOR fuel requirements. Failed to coordinate airborne orders and scramble/divert alert aircraft when directed or delegated. Failed to detect, identify, report and track air traffic within the assigned area. Failed to recognize or respond to an EMCON plan profile warning and failed to notify the crew. Did not comply with EMCON plan. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.13.2. SL.

3.2.13.2.1. **Q** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFMAN 13-1 CRC Volume 3, *Operating Procedures Control and Reporting Center (CRC)*, Table 6.1. Assessed ROE and identification (ID) procedures based on changing alert conditions. Directed, supervised, and executed allocation of resources (aircraft, ADA) to counter threat in accordance with ROE and support execution of the airspace control plan (ACP)/ATO. Authorized declaration of targets in accordance with theater ID matrix and ROE. Ensured engagement tactics were commensurate with threat assessment and ROE. Understood authorities (i.e., hostile ID, Scramble and Engagement) and requested increased authorities or delegated authorities as required. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing (i.e., in accordance with OPLAN, SPINS, ROE, ACO, and ATO). Coordinated with external agencies for ID of aircraft not normally identifiable by the standard ID matrix and for declaration of hostile based on ROE while ID authority rested outside the CRC. Monitored ADA status and directed appropriate ADA weapons alert status through the Air Defense Artillery Fire Control Officer (ADAFCO) when applicable. Disseminated air defense warnings as required. Monitored and directed Personnel Recovery (PR)/Combat Search and Rescue (CSAR) efforts as tasked. Recognized or responded to an Anti-Radiation Missile (ARM) attack profile warning and notified the crew. Complied with EMCON plan.

3.2.13.2.2. **Q-** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. Assessed ROE and ID procedures based on changing alert conditions. Directed, supervised, and executed allocation of resources (aircraft, ADA) to counter threat in accordance with ROE and support execution of the ACP/ATO. Authorized declaration of targets in accordance with theater ID matrix and ROE. Ensured engagement tactics were commensurate with threat assessment and ROE. Understood authorities (i.e., hostile ID, Scramble and Engagement) and requested increased authorities or delegated authorities as required. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing (i.e., in accordance with OPLAN, SPINS, ROE, ACO, and ATO). Coordinated with external agencies for ID of aircraft not normally identifiable by the standard ID matrix and for declaration of hostile based on ROE while ID authority rested outside the CRC. Monitored ADA status and directed appropriate ADA weapons alert status through the ADAFCO when applicable. Disseminated air defense warnings as required. Monitored and directed PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew. Complied with EMCON plan. Committed minor errors or omissions that did not adversely affect mission accomplishment.

3.2.13.2.3. **U** . Failed to execute the assigned mission in a timely, efficient manner with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. Failed to assess ROE and ID procedures based on changing alert conditions. Failed to direct, supervise, and execute allocation of resources (aircraft, ADA) to counter threat in accordance with ROE and support execution of the ACP/ATO. Failed to authorize declaration of targets in accordance with theater ID matrix and ROE. Failed to ensured

engagement tactics were commensurate with threat assessment and ROE. Failed to understand authorities (i.e., hostile ID, Scramble and Engagement) and request increased authorities or delegated as required. Failed to coordinate with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing (i.e., in accordance with OPLAN, SPINS, ROE, ACO, and ATO). Failed to coordinate with external agencies for ID of aircraft not normally identifiable by the standard ID matrix and for declaration of hostile based on ROE while ID authority rested outside the CRC. Failed to monitor ADA status and direct appropriate ADA weapons alert status through the ADAFCO when applicable. Failed to disseminate air defense warnings as required. Failed to monitor and direct PR/CSAR efforts as tasked. Failed to recognize or responded to an ARM attack profile warning and notified the crew. Failed to recognize or respond to an EMCON plan profile warning and failed to notify the crew. Did not comply with EMCON plan. Committed errors or omissions that jeopardized mission accomplishment.

3.2.14. Area 14: Air/Ground Picture Management.

3.2.14.1. **Q** . Ensured the CRC maintained an accurate air/ground picture. Recognized air/ground picture/symbols deviations and directed/accomplished corrective action. Able to recognize and modify air/ground data link/cross-told tracks (J3.2, J3.5, J3.1, etc.) as required. Implemented data link filters as required.

3.2.14.2. **Q-** . Ensured the CRC maintained an accurate air/ground picture. Recognized air/ground picture/symbols deviations and directed/accomplished corrective action. Able to recognize and modify air/ground data link/cross-told tracks (J3.2, J3.5, J3.1, etc.). Implemented data link filters as required. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.14.3. **U** . Failed to ensure the CRC maintained an accurate air/ground picture. Failed to recognize air/ground picture/symbols deviations and failed to direct/accomplish corrective action. Unable to recognize and modify air/ground data link/cross-told tracks (J3.2, J3.5, J3.1, etc.). Did not implement data link filters as required. Committed errors or omissions that jeopardized mission accomplishment.

3.2.15. Area 15: Database/System Operations.

3.2.15.1. **Q** . Ensured database ATO information was correct and current. Managed the database, system configuration, and coordinated system resets to meet mission needs. Recommended system configuration changes to the crew as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

3.2.15.2. **Q-** . Ensured database ATO information was correct and current. Managed the database, system configuration, and coordinated system resets to meet mission needs. Recommended system configuration changes to the crew as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.15.3. **U** . Failed to ensure database ATO information was correct and current. Failed to manage the database, system configuration, and coordinate system resets to meet

mission needs. Did not recommend system configuration changes to the crew as appropriate. Failed to configure system and database as required. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

3.2.16. Area 16: Sensor Operations.

3.2.16.1. **Q** . Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors. Ensured remote radar data was correlated and data was received on all tracks within the assigned area.

3.2.16.2. **Q-** . Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors. Ensured remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.16.3. **U** . Failed to ensure sensors were configured and/or optimized to accomplish the mission. Failed to recognize and/or analyze degraded sensor performance. Failed to ensure corrective measures were taken to improve degraded sensor performance. Failed to monitor corrective actions taken to improve degraded sensors. Failed to ensure remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that jeopardized mission accomplishment.

3.2.17. Area 17: Airspace Management.

3.2.17.1. **Q** . Complied with airspace management requirements and restrictions (i.e., in accordance with OPLAN, ACO, and Letters of Agreement (LOAs)). Initiated airspace requests, and verified airspace restrictions and limitations (i.e., in accordance with OPLAN, ACO, and LOAs). Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

3.2.17.2. **Q-** . Complied with airspace management requirements and restrictions (i.e., in accordance with OPLAN, ACO, and LOAs). Initiated airspace requests, and verified airspace restrictions and limitations (i.e., in accordance with OPLAN, ACO, and LOAs). Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.17.3. **U** . Failed to comply with airspace management requirements and restrictions (i.e., in accordance with OPLAN, ACO, and LOAs). Failed to initiate airspace requests and did not verify airspace restrictions and limitations (i.e., in accordance with OPLAN, ACO, and LOAs). Failed to ensure all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.18. Area 18: Assumption of Control.

3.2.18.1. **Q** . Located mission aircraft using reported position, radar and/or Identification Friend or Foe (IFF)/Selective Identification Feature (SIF), Precise Participant Location and Identification (PPLI), pilot maneuvering, and/or external sources. Identification was accomplished in a timely manner or negative contact was voiced. Authenticated, as required, and provided the aircrew with a working frequency and/or net and time of day (TOD) when applicable. Provided a brief situation update and provided requested/required information. Conducted IFF/SIF checks and advised aircrew of status. Conducted handoff/recovery (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and applicable directives) and in a timely manner.

3.2.18.2. **Q-** . Located mission aircraft using reported position, radar and/or IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Identification was accomplished in a timely manner or negative contact was voiced. Authenticated, as required, and provided the aircrew with a working frequency and/or net and TOD when applicable. Provided a brief situation update and provided requested/required information. Conducted IFF/SIF checks and advised aircrew of status. Conducted handoff/recovery (i.e., in accordance with OPLAN, ACO, ATO, LOAs and applicable directives) and in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.18.3. **U** . Failed to locate aircraft using reported position, radar and/or IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Identification was not accomplished in a timely manner or negative contact was not voiced. Did not authenticate, as required, or provide the aircrew with a working frequency and/or net and TOD when applicable. Did not provide a brief situation update or requested/required information. Failed to conduct IFF/SIF checks and advise aircrew of status. Failed to conduct handoff/recovery (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and applicable directives), nor in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.19. Area 19: Continuum of Control.

3.2.19.1. **Q** . Controlled aircraft consistent with continuum of control. Kept controlled aircraft informed of the tactical situation (to include changes in targets and enemy order of battle) in accordance with approved formats. Oriented/paired controlled aircraft to factor groups, threats, or ground targets. Threat information was timely and aided in mission accomplishment. Positioned aircraft to accomplish mission objectives in accordance with applicable air-to-air rules and consistent with aircraft capabilities, ROE, operations directives, and battle staff direction. Provided minimum risk/safe passage and flight join up assistance as required/requested. Employed radio/telephone (R/T) procedures in accordance with appropriate publications. Recognized/interpreted aircraft backlink/cross-told data and sent/received data link messages (J28.2) as required. Acknowledged all communications.

3.2.19.2. **Q-** . Controlled aircraft with errors or omissions that did not jeopardize mission accomplishment.

3.2.19.3. **U** . Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Failed to provide positioning consistent with continuum of control, ROE, operations directives, and/or mission objectives.

3.2.20. Area 20: Air Refueling.

3.2.20.1. **Q** . Accomplished/performed air refueling procedures according to applicable publications, consistent with aircraft capabilities, and in a timely manner. Provided/updated threat information to aircraft under control. Obtained and disseminated post-refueling offload information as required. Employed R/T procedures in accordance with appropriate publications. Acknowledged all communications.

3.2.20.2. **Q-** . Accomplished/performed air refueling procedures according to applicable publications with errors or omissions that did not jeopardize mission accomplishment.

3.2.20.3. **U** . Failed to accomplish/perform air refueling procedures according to applicable publications. Errors or omissions jeopardized mission accomplishment.

3.2.21. Area 21: Section Leadership.

3.2.21.1. SL.

3.2.21.1.1. **Q** . Directed/supervised crew/section functions to ensure accomplishment of mission objectives (radios, sensors, airspace, etc.). Ensured the section controlled assigned missions to the level requested and/or followed the continuum of control to the maximum extent possible. Prioritized tasks and available resources to manage section member workload. Provided/updated threat information to the mission crew as required. Allocated/managed radio assignments (i.e., in accordance with applicable publications). Provided/updated threat information to the mission crew as required. Coordinated for scheduled/unscheduled maintenance impacting mission execution. Ensured coordination and information flow within operations. Directed the crew through degraded operations levels during changing alert conditions.

3.2.21.1.2. **Q-** . Directed/supervised crew/section functions to ensure accomplishment of mission objectives (radios, sensors, airspace, etc.). Ensured the section controlled assigned missions to the level requested and/or followed the continuum of control to the maximum extent possible. Prioritized tasks and available resources to manage section member workload. Provided/updated threat information to the mission crew as required. Allocated/managed radio assignments (i.e., in accordance with applicable publications). Provided/updated threat information to the mission crew as required. Coordinated for scheduled/unscheduled maintenance impacting mission execution. Ensured coordination and information flow within operations. Directed the crew through degraded operations levels during changing alert conditions. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.21.1.3. **U** . Failed to direct/supervise crew/section functions to ensure accomplishment of mission objectives (radios, sensors, airspace, etc.). Failed to ensure the section controlled assigned missions to the level requested and/or followed the continuum of control to the maximum extent possible. Failed to prioritize tasks and available resources to manage section member workload. Did not provide updated threat information to the mission crew as required. Did not Allocate/manage radio assignments (i.e., in accordance with applicable publications). Failed to provide/update threat information to the mission crew. Did not coordinate for scheduled/unscheduled maintenance. Did not ensure coordination and information flow within operations.

Failed to direct the crew through degraded operations levels during changing alert conditions. Committed errors or omissions that jeopardized mission accomplishment.

3.3. Instructor. The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

- 3.3.1. Area 22: Instructor Knowledge.
- 3.3.2. Area 23: Ability to Instruct.
- 3.3.3. Area 24: Briefing/Debriefing.
- 3.3.4. Area 25: Training Forms Preparation/Documentation.

Chapter 4

WEAPONS DIRECTOR EVALUATIONS

4.1. General. This chapter contains the criteria specifying the tasks required of a qualified WD Evaluation in accordance with AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 4.1** for WD and Instructor Weapons Director.

4.1.1. Evaluation Objectives .

4.1.1.1. Qualification Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** Qualification evaluations will encompass all areas identified in **Table 4.1**. **(T-3)** When possible, the evaluation should be conducted with a full operational crew as defined in AFMAN 13-1CRCV3, Table 6.1. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the QUAL evaluation to ensure adequate crew coordination is accomplished. **(T-3)** This will be documented in the Mission Description of the AF Form 8 (Section VIII). **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)** WD qualification evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** WD evaluations will be conducted on blue air side only to properly evaluate blue control with fighters operating blue air tactics during a counterair mission. **(T-3)** The mission profile must meet the minimum requirements of **paragraph 4.1.1.4.1**. **(T-3)** SEEs will make the determination as to whether briefed/conducted control activities fulfill control requirements. **(T-3)** When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3) Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with sensor knowledge, system capabilities) and an ability to effectively employ that system.

4.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)** Mission evaluations will encompass all areas identified in **Table 4.1** for the mission profile performed. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)** Mission evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** During the MSN evaluation, counterland and tanker management mission profiles must meet the minimum requirements of paragraphs **4.1.1.4.2** and **4.1.1.4.3**. **(T-3)** When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and ADA interface, command and control electronic warfare and HHQ integration. The evaluation should include participation of at least one or more external theater air control

system units and, when possible, conducted with a full operational crew as defined in AFMAN 13-1CRCV3, Table 6.1. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort to maintain mission qualification status with concurrence of the examinee, the deployed and unit commander. If a full operations crew is used, an ADA interface should be simulated. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3) Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, battle management, sensor employment).

4.1.1.3. There will be instances where an examinee during the mission, accomplishes all areas required for both the QUAL and the MSN evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3)** Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3)**

4.1.1.4. The examinee must control a mission that includes counterair or counterland and air refueling; or is sufficiently complex enough to meet intent in accordance with [paragraph 4.1.1.1.](#), [paragraph 4.1.1.2.](#), and [paragraph 4.1.1.3.](#) Examples include but not limited to LFEs, Tanker Management Scenarios (4 or more tankers simultaneously with multiple fragged receivers), or dynamic lane defense missions. Crewmembers, regardless of designation as CMR or BMC will complete both QUAL and MSN evaluations. **(T-3)** A single mission can satisfy both QUAL and MSN requirements without having the examinee control separate events.

4.1.1.4.1. Counterair missions will be conducted where weapons examinees provide tactical or broadcast control as briefed by the aircrew. **(T-3)** The control will be provided to at least two separate fighters/elements simultaneously committed against a minimum of two targets. **(T-3)** The examiner will ensure the weapons examinee participates in all phases of the mission. **(T-3) Note:** It is not a requirement for this mission to result in a maneuvering dogfight.

4.1.1.4.2. Counterland missions require the examinee to direct at least one flight of aircraft conducting air-to-surface tactics against a ground objective. The examinee will control the flight from check-in to the prosecution of at least one objective. **(T-3)** A counterland mission must include the following elements:

4.1.1.4.2.1. Airspace management: Assigning altitude blocks and/or safe deconfliction between aircraft (manned/unmanned). **(T-3)**

4.1.1.4.2.2. Target Area Brief: Air or ground picture and the objective area. **(T-3)**

4.1.1.4.2.3. Dynamic/Deliberate Tasking: Updated or pre-planned objective. **(T-3)**

4.1.1.4.2.4. Mission Report: Mission report. **(T-3)**

4.1.1.4.3. Air refueling missions require control of at least one tanker and receiver simultaneously, with at least two receivers (dynamic or fragged) total per scenario. SEEs retain the option for additional fragged receivers or dynamic rendezvous at SEEs discretion.

4.1.1.5. WD examiners may conduct evaluation on WDs, ABMs, and SLs on all areas except for SL specific criteria (e.g., Section Leadership).

Table 4.1. WD Evaluation Areas.

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Crew Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Battle Management	R		R
14. Air/Ground Picture Management	R		R
15. Database/System Operations	R		R
16. Sensor Operations	R		R
17. Airspace Management	R		R
18. Assumption of Control	R		R
19. Continuum of Control	R		R
20. Air Refueling			R
Instructor Areas¹			
21. Instructor Knowledge	R	R	R
22. Ability to Instruct	R	R	R
23. Briefing/Debriefing	R	R	R
24. Training Forms Preparation/Documentation	R	R	R
R - Required evaluation area.			
Note:			
1. Only required for instructor qualified crew members. A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

4.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFMAN 13-1GBMC2V2 and any criteria listed within the individual areas. (T-2)

4.2.1. Area 1: Mission Planning.

4.2.1.1. **Q** . Extracted information from mission planning documents required to plan and execute the tasked mission in accordance with AFTTP 3-3.IPE, *Integrated Planning and Employment (IPE)* and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files.

4.2.1.2. **Q-** . Extracted information from mission planning documents required to plan and execute the tasked mission. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.1.3. **U** . Failed to extract mission planning information required to execute the tasked mission. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

4.2.2. Area 2: Briefing/Debriefing.

4.2.2.1. **Q** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings in accordance with applicable directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

4.2.2.2. **Q-** . Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish, nor maintain team concept or environment for open communications and feedback.

4.2.2.3. **U** . Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

4.2.3. Area 3: Equipment Setup and Checkout.

4.2.3.1. **Q** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured.

Configured communications equipment for operations as required and accessed as needed in accordance with positional checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Approved changes to database information.

4.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with positional checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Approved changes to database information. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure communications equipment for operations as required and accessed as needed in accordance with positional checklists. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with positional checklists. Failed to approve changes to database information. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.4. Area 4: Console Operations and Displays.

4.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness.

4.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not use situation displays to optimize situational awareness. Committed errors or omissions that jeopardized mission accomplishment.

4.2.5. Area 5: Positional Changeover Briefing.

4.2.5.1. **Q** . Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

4.2.5.2. **Q-** . Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.5.3. **U** . Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing in accordance with positional checklist. Committed errors or omissions that jeopardized mission accomplishment.

4.2.6. Area 6: Emergency Action Procedures and Equipment.

4.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

4.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

4.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

4.2.7. Area 7: Authentication Procedures.

4.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

4.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

4.2.8. Area 8: Security/COMSEC (CRITICAL).

4.2.8.1. **Q** . Controlled COMSEC in accordance with established procedures.

4.2.8.2. **U** . Failed to control COMSEC in accordance with established procedures.

4.2.9. Area 9: Safety (CRITICAL).

4.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and radiation safety hazards. Located and explained the proper use of fire extinguishers.

4.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and/or explain proper use of fire extinguishers. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

4.2.10. Area 10: Aircraft Emergency (CRITICAL).

4.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Entered the appropriate emergency point on the scope. Notified crewmembers of the aircraft emergency. Coordinated responses in accordance with an emergency checklist.

4.2.10.2. **U** . Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Failed to enter an appropriate emergency point on the scope. Did not notify crewmembers of aircraft emergency. Did not follow the aircraft emergency checklist. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

4.2.11. Area 11: Crew Coordination (CRITICAL).

4.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

4.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and failed to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required.

4.2.12. Area 12: Crew Discipline (CRITICAL).

4.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

4.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision, or lack thereof, resulted in failure to accomplish the assigned mission. Demonstrated poor judgment, to the extent, that safety or mission accomplishment was compromised.

4.2.13. Area 13: Battle Management.

4.2.13.1. **Q** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Detected, identified, reported, and tracked air traffic within the assigned area. Recognized or responded to an EMCON plan profile warning and notified the crew. Complied with EMCON plan.

4.2.13.2. **Q-** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Detected, identified, reported, and tracked air traffic within the assigned area. Recognized or responded to an EMCON plan profile warning and notified the crew. Complied with EMCON plan. Committed errors or omission that did not adversely affect mission accomplishment.

4.2.13.3. **U** . Failed to commit weapons resources to counter the threat in accordance with theater ROE. Failed to coordinate and/or establish CAP and hand-over/recovery points as required. Failed to manage air refueling assets and AOR fuel requirements. Failed to coordinate airborne orders and scramble/divert alert aircraft when directed or delegated. Failed to detect, identify, report, and track air traffic within the assigned area. Failed to recognize or respond to an EMCON plan profile warning and notify the crew. Failed to comply with EMCON plan. Committed errors or omissions that jeopardized mission accomplishment.

4.2.14. Area 14: Air/Ground Picture Management.

4.2.14.1. **Q** . Ensured the CRC maintained an accurate air/ground picture. Recognized air/ground picture/symbols deviations and accomplished corrective action. Able to recognize and modify air/ground data link/cross-told tracks (J3.2, J3.5, J3.1, etc.) as required. Implemented data link filters as required.

4.2.14.2. **Q-** . Ensured the CRC maintained an accurate air/ground picture. Recognized air/ground picture/symbols deviations and directed/accomplished corrective action. Able to recognize and modify air/ground data link/cross-told tracks (J3.2, J3.5, J3.1, etc.). Implemented data link filters as required. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.14.3. **U** . Failed to ensure the CRC maintained an accurate air/ground picture. Failed to recognize air/ground picture/symbols deviations and failed to direct/accomplish corrective action. Unable to recognize and modify air/ground data link/cross-told tracks (J3.2, J3.5, J3.1, etc.). Did not implement data link filters as required. Committed errors or omissions that jeopardized mission accomplishment.

4.2.15. Area 15: Database/System Operations.

4.2.15.1. **Q** . Ensured database ATO information was correct and current. Recommended database, system configuration, and coordinated system resets to meet mission needs. Recommended changes to the crew to meet mission needs as required. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

4.2.15.2. **Q-** . Ensured database ATO information was correct and current. Recommended database, system configuration, and coordinated system resets to meet mission needs. Recommended changes to the crew to meet mission needs as required. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.15.3. **U** . Failed to ensure database ATO information was correct and current. Did not recommend database, system configuration, and coordinated system resets to meet mission needs. Did not recommend changes to the crew to meet mission needs as required. Failed to configure system and database as required. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment. Committed errors or omissions that jeopardized mission accomplishment.

4.2.16. Area 16: Sensor Operations.

4.2.16.1. **Q** . Ensured sensors were configured and optimized to accomplish the mission. Ensured remote sensor radar data was received on all tracks within the assigned area. Recognized/analyzed degraded sensor performance and reported changes to the crew.

4.2.16.2. **Q-** . Ensured sensors were configured and optimized to accomplish the mission. Ensured sensor radar data was received on all tracks within the assigned area. Recognized/analyzed degraded sensor performance and reported changes to the crew. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.16.3. **U** . Failed to ensure sensor was configured and optimized to accomplish the mission. Failed to ensure sensor radar data was received on all tracks within the assigned area. Did not recognize/analyze degraded sensor performance and report changes to the crew. Committed errors or omissions that jeopardized mission accomplishment.

4.2.17. Area 17: Airspace Management.

4.2.17.1. **Q** . Complied with airspace management requirements and restrictions in accordance with OPLAN, ACO, and LOAs. Initiated airspace requests and verified airspace restrictions and limitations in accordance with OPLAN, ACO, and LOAs. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

4.2.17.2. **Q-** . Complied with airspace management requirements and restrictions in accordance with OPLAN, ACO, and LOAs. Initiated airspace requests and verified airspace restrictions and limitations in accordance with OPLAN, ACO, and LOAs. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.17.3. **U** . Failed to comply with airspace management requirements and restrictions in accordance with OPLAN, ACO, and LOAs. Failed to initiate airspace requests and did not verify airspace restrictions and limitations in accordance with OPLAN, ACO, and LOAs. Failed to ensure efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.18. Area 18: Assumption of Control.

4.2.18.1. **Q** . Located mission aircraft using reported position, radar, IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Identification was accomplished in a timely manner or negative contact was voiced. Passed or confirmed altimeter in accordance with local or theater procedures. Authenticated, as required, and provided the aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update and provided requested/required information. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs/recovery in accordance with procedures and in a timely manner.

4.2.18.2. **Q-** . Located mission aircraft using reported position, radar, IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Identification was accomplished in a timely manner or negative contact was voiced. Passed or confirmed altimeter in accordance with local or theater procedures. Authenticated, as required, and provided the aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update and provided requested/required information. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs/recovery in accordance with procedures and in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.18.3. **U** . Failed to locate aircraft using reported position, radar, IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Did not identify in a timely manner or negative contact was not voiced. Did not pass or confirm altimeter in accordance with local or theater procedures. Failed to authenticate, as required, and provide the aircrew with

working frequency and/or net and TOD when applicable. Did not provide aircrew a situation update and provide request/required information. Failed to conduct IFF/SIF checks and advise aircrew of status. Failed to comply with procedures for conducting radar handoffs/recovery in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.19. Area 19: Continuum of Control.

4.2.19.1. **Q** . Controlled aircraft consistent with continuum of control. Kept controlled aircraft informed of the tactical situation (to include changes in targets and enemy order of battle) in accordance with approved formats. Oriented/paired controlled aircraft to factor groups, threats, or ground targets. Threat information was timely and aided in mission accomplishment. Positioned aircraft to accomplish mission objectives in accordance with applicable air-to-air rules and consistent with aircraft capabilities, ROE, operations directives, and battle staff direction. Provided minimum risk/safe passage and flight join up assistance as required/requested. Employed R/T procedures in accordance with appropriate publications. Recognized/interpreted aircraft backlink/cross-told data and sent/received data link messages (J28.2) as required. Acknowledged all communications.

4.2.19.2. **Q-** . Controlled aircraft with errors or omissions that did not jeopardize mission accomplishment.

4.2.19.3. **U** . Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Failed to provide positioning consistent with continuum of control, ROE, operations directives, and/or mission objectives.

4.2.20. Area 20: Air Refueling.

4.2.20.1. **Q** . Accomplished/performed air refueling procedures according to applicable publications, consistent with aircraft capabilities, and in a timely manner. Provided/updated threat information to aircraft under control. Obtained and disseminated post-refueling offload information as required. Employed R/T procedures in accordance with appropriate publications. Acknowledged all communications.

4.2.20.2. **Q-** . Accomplished/performed air refueling procedures according to applicable publications with errors or omissions that did not jeopardize mission accomplishment.

4.2.20.3. **U** . Failed to accomplish/perform air refueling procedures according to applicable publications. Errors or omissions jeopardized mission accomplishment.

4.3. Instructor. The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

4.3.1. Area 21: Instructor Knowledge.

4.3.2. Area 22: Ability to Instruct.

4.3.3. Area 23: Briefing/Debriefing.

4.3.4. Area 24: Training Forms Preparation/Documentation.

Chapter 5

AIR SURVEILLANCE TECHNICIAN EVALUATIONS

5.1. General. This chapter contains the criteria specifying the tasks required of a qualified Air Surveillance Technician (AST) in accordance with AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 5.1** for AST and Instructor Air Surveillance Technician.

5.1.1. Evaluation Objectives .

5.1.1.1. Qualification Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** Qualification evaluations will encompass all areas identified in **Table 5.1**. **(T-3)** All efforts should be made to conduct the evaluation with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. AST qualification evaluations will be conducted, at a minimum, with a surveillance team and applicable technicians during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)** Tasks not observed and assessed during the normal course of evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3)** At least one Tactical Digital Information Link will be used. **(T-3)** Link events can occur on different days and/or with different agencies. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with sensor knowledge, system capabilities) and an ability to effectively employ that system.

5.1.1.2. Mission Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)** Mission evaluations will encompass all required areas identified in **Table 5.1**, for the mission profile performed. **(T-3)** All efforts should be made to conduct the evaluation with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. AST MSN evaluations will be conducted, at a minimum, with a surveillance operations team and applicable technicians during a live/virtual/constructive mission. **(T-3)** Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)** When possible, MSN evaluations will replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and command and control electronic warfare and HHQ integration. **(T-3)** The evaluation should include participation of at least one or more external theater air control system units. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise,

communications jamming may be simulated. **(T-3) Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, air/ground picture management, sensor employment).

5.1.1.3. There will be instances where an examinee, during the mission, accomplishes all areas required for both the QUAL and MSN evaluations. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3)** Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and qualification evaluation have been met. **(T-3)**

5.1.1.4. Completion of an AST or Instructor Air Surveillance Technician evaluation includes demonstration of competence as an Interface Control Technician (ICT) and Surveillance Technician (ST); and qualifies the AST to perform as an ICT and ST, and the Instructor Air Surveillance Technician to perform as an Instructor Interface Control Technician (IICT) and Instructor Surveillance Technician (IST). An Examiner AST may accomplish evaluations on AST, Mission System Operator (MSO), ICT, and ST positions.

5.1.1.5. ASTs that were previously qualified as IICTs and/or ISTs may continue to perform IICT and/or IST duties under the following conditions:

5.1.1.5.1. During the Instructor AST (IAST) Initial QUAL evaluation and subsequent recurring IAST evaluations, the IAST must perform IICT and/or IST duties. **(T-3)**

5.1.1.5.2. Restrictions for what positions they can instruct based on previous experience can be documented on the AF Form 8 as a restriction (e.g., "RESTRICTION: Examinee may only instruct ST and ICT crewmembers.") or via the unit LoX. **(T-2)**

Table 5.1. AST Evaluation Areas.

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Battle Management	R		R
15. Crew Leadership	R		R
16. Tactical Data Link (TDL) Operations	R		R
17. Air/Ground Picture Management	R		R
18. Database Initialization/Management and System Operations	R		R
19. Sensor Operations	R		R
Instructor Areas¹			
20. Instructor Knowledge	R	R	R
21. Ability to Instruct	R	R	R
22. Briefing/Debriefing	R	R	R
23. Training Forms Preparation/Documentation	R	R	R
R - Required evaluation area.			
Note:			
1. Only required for instructor qualified crewmembers. A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

5.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFMAN 13-1GBMC2V2 Stan/Eval and any criteria listed within the individual areas. (T-2)

5.2.1. Area 1: Mission Planning.

5.2.1.1. **Q** . Led sensor operations team mission planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Obtained equipment status from Job Control. Determined surveillance manning requirements to meet mission tasking. Read and initialed all items in the FCIF and/or read files.

5.2.1.2. **Q-** . Led sensor operations team mission planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Obtained equipment status from Job Control. Determined surveillance manning requirements to meet mission tasking. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.1.3. **U** . Failed to lead sensor operations team mission planning efforts. Failed to determine mission tasking, ID criteria, AOR, data link requirements, communications requirements, and/or surveillance plans from mission planning documents. Did not obtain equipment status from Job Control. Failed to determine surveillance manning requirements to meet mission tasking. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors and omissions that jeopardized mission accomplishment.

5.2.2. Area 2: Briefing/Debriefing.

5.2.2.1. **Q** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with OPLAN and AFMAN 13-1CRCV3. Planned all areas necessary to conduct tasked mission(s). Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors and requested input from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

5.2.2.2. **Q-** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Extracted/provided information or conducted briefings/debriefings on all aspects of the mission with errors or omissions that did not jeopardize mission accomplishment.

5.2.2.3. **U** . Failed to attend and participate in all required briefings/debriefings. Conducted crew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

5.2.3. Area 3: Equipment Setup/Checkout.

5.2.3.1. **Q** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Directed database loads and approved changes to database information.

5.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Directed database loads and approved changes to database information. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with positional checklists. Failed to direct database loads and approved changes to database information. Committed errors or omissions that could have jeopardized mission accomplishment.

5.2.4. Area 4: Console Operations and Displays.

5.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air/ground picture.

5.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air/ground picture. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not perform surveillance-related console operations to maintain an accurate air/ground picture. Committed errors or omissions that jeopardized mission accomplishment.

5.2.5. Area 5: Positional Changeover Briefing.

5.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

5.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.5.3. **U** . Failed to brief the relieving crewmember on the current operational situation before departing position. Failed to follow positional checklist when conducted positional changeover briefing. Committed errors or omissions that jeopardized mission accomplishment.

5.2.6. Area 6: Emergency Action Procedures and Equipment.

5.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

5.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

5.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

5.2.7. Area 7: Authentication Procedures.

5.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

5.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

5.2.8. Area 8: Security/COMSEC (CRITICAL).

5.2.8.1. **Q** . Controlled COMSEC in accordance with established procedures.

5.2.8.2. **U** . Failed to control COMSEC in accordance with established procedures.

5.2.9. Area 9: Safety (CRITICAL).

5.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and radiation safety hazards. Located and demonstrated the proper use of fire extinguishers.

5.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and/or demonstrate proper use of fire extinguishers. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

5.2.10. Area 10: Aircraft Emergencies (CRITICAL).

5.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted the crew in handling an aircraft emergency. Entered the appropriate emergency point on the scope. Notified crewmembers of the aircraft emergency. Coordinated responses in accordance with an emergency checklist.

5.2.10.2. **U** . Failed to recognize an aircraft emergency. Failed to assist the crew in handling an aircraft emergency. Failed to respond in a timely manner. Failed to enter an appropriate emergency point on the scope. Did not notify crewmembers of aircraft emergency. Did not follow the aircraft emergency checklist. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

5.2.11. Area 11: Coordination (CRITICAL).

5.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

5.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

5.2.12. Area 12: Crew Discipline (CRITICAL).

5.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

5.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

5.2.13. Area 13: R/T Procedures.

5.2.13.1. **Q** . Employed R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

5.2.13.2. **Q-** . Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

5.2.13.3. **U** . Failed to employ R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Did not acknowledge all communications.

5.2.14. Area 14: Battle Management.

5.2.14.1. **Q** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFMAN 13-1CRCV3, Tables 3.1 and 3.2; and provided guidance to the sensor operations section on employment of resources, joint air operations plan (JAOP), OPLAN, ATO/ACO, OPTASKLINK, SPINS and other mission specific

documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported, and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supervised electronic protection efforts to counter electronic attack and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an EMCON plan profile warning and notified the crew and complied with EMCON plan checklist.

5.2.14.2. **Q-** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFMAN 13-1CRCV3, Tables 3.1 and 3.2; and provided guidance to the sensor operations section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASKLINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported, and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supervised electronic protection efforts to counter electronic attack and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an EMCON plan profile warning and notified the crew and complied with EMCON plan checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.14.3. **U** . Failed to execute the assigned mission in a timely, efficient manner with a full operations crew as defined in AFMAN 13-1CRCV3, Tables 3.1 and 3.2. Failed to provide guidance to the sensor operations section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASKLINK, SPINS and other mission specific documents, procedures and taskings. Failed to assess ROE and ID procedures based on changing alert conditions. When delegated, failed to authorize declaration of targets in accordance with theater ID matrix and ROE. Did not monitor detection, tracking and ID of air traffic within the assigned area. When delegated, failed to supervise the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Did not supervise electronic protection efforts to counter electronic attack and failed to disseminate air defense warnings as required. Did not monitor and/or support PR/CSAR efforts as tasked. Failed to recognize or respond to an EMCON plan profile warning and failed to notify the crew and did not comply with EMCON plan checklist. Committed errors or omissions that jeopardized mission accomplishment.

5.2.15. Area 15: Crew Leadership.

5.2.15.1. **Q** . Supervised tracking and identification of all air traffic within the assigned area, ensured identification procedures were properly executed in a timely manner, and ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units and approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities and directed sensor configuration at subordinate units. Ensured data link track filters were built as required. Supervised sensor operations team functions to ensure accomplishment of mission objectives, and prioritized tasks plus available resources to manage workload of the sensor

operations team. Ensured available assets were used to accomplish assigned mission and ensured coordination plus information flow within operations as required. Coordinated and directed track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Ensured the sensor operations team was aware of airspace control measures (ACMs) involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes).

5.2.15.2. **Q-** . Supervised tracking and identification of all air traffic within the assigned area, ensured identification procedures were properly executed in a timely manner, and ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units and approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities and directed sensor configuration at subordinate units. Ensured data link track filters were built as required. Supervised sensor operations team functions to ensure accomplishment of mission objectives, and prioritized tasks and available resources to manage workload of the sensor operations team. Ensured available assets were used to accomplish assigned mission and ensured coordination plus information flow within operations as required. Coordinated and directed track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Ensured the sensor operations team was aware of ACMs involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.15.3. **U** . Failed to supervise tracking and/or identification of all air traffic within the assigned area, failed to ensure identification procedures were properly executed in a timely manner, and failed to ensure that all tracks were properly identified. Failed to ensure flight plan information was disseminated to adjacent/subordinate units and failed to approve all cancel track actions. Failed to ensure coordination of ID activities with adjacent air traffic control facilities and failed to ensure data link track filters were built as required. Failed to supervise sensor operations team functions to ensure accomplishment of mission objectives and failed to prioritize tasks and available resources to manage workload of the sensor operations team. Failed to ensure available assets were used to accomplish assigned mission and failed to ensure coordination plus information flow within operations as required. Failed to coordinate and direct track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Failed to ensure the sensor operations team was aware of ACMs involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that jeopardized mission accomplishment.

5.2.16. Area 16: TDL Operations.

5.2.16.1. **Q** . Performed initial data link equipment checkout. Built, initiated, and maintained a Radio Frequency (RF) Link 16 and Joint Range Extension Application Protocol (JREAP) at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed and reported Link problems in accordance with established procedures. Used the Data link Coordination Network (DCN)/Track Supervisor Network (TSN) to coordinate with other data link agencies, plus coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed and built plus implemented data link filters as required.

Recommended changes in data link configurations to the SL as appropriate and interpreted and responded to data link messages in a timely manner.

5.2.16.2. **Q-** . Performed initial data link equipment checkout. Built, initiated, and maintained a RF Link 16 and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed and reported Link problems in accordance with established procedures. Used the DCN/TSN to coordinate with other data link agencies, plus coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed and built plus implemented data link filters as required. Recommended changes in data link configurations to the SL as appropriate and interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.16.3. **U** . Failed to perform initial data link equipment checkout. Failed to build, initiate, and maintain a RF Link 16 and JREAP at a minimum. Failed to build, initiate, and maintain a Link 11 or Link 11 B, as required. Failed to conduct data link operations as directed and failed to report Link problems in accordance with established procedures. Failed to use DCN/TSN to coordinate with other data link agencies, plus did not coordinate the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Did not implement changes in interface configurations as directed and failed to build plus implement data link filters as required. Did not recommend changes in data link configurations to the SL as appropriate and failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

5.2.17. Area 17: Air/Ground Picture Management.

5.2.17.1. **Q** . Divided the CRC operational area into sub-areas and assigned appropriate STs to conduct surveillance within those areas. Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the crew.

5.2.17.2. **Q-** . Divided the CRC operational area into sub-areas and assigned appropriate STs to conduct surveillance within those areas. Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated their activation and deactivation with the crew. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.17.3. **U** . Failed to divide the CRC operational area into sub-areas and assign appropriate STs to conduct surveillance within those areas. Failed to ensure timely and/or accurate collection, display, and/or dissemination of air surveillance data to higher, lateral, and/or subordinate units as appropriate. Failed to ensure the implementation of the ACO while providing safe passage advisories. Failed to ensure active ACMs were properly displayed and did not coordinate their activation and deactivation with the crew. Committed errors or omissions that jeopardized mission accomplishment.

5.2.18. Area 18: Database Initialization/Management and System Operations.

5.2.18.1. **Q** . Initiated, modified, managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

5.2.18.2. **Q-** . Initiated, modified, managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.18.3. **U** . Failed to initiate, modify, manage database as directed to meet operational needs. Failed to select, copy, delete, review, rename, share and/or create entries as necessary. Failed to ensure data base ATO/ACO was correct. Did not recommend appropriate system configuration changes. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

5.2.19. Area 19: Sensor Operations.

5.2.19.1. **Q** . Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors. Ensured system radar correlation check was completed in accordance with the Periodic Radar Evaluation Program (PREP) worksheet. Ensured remote radar data was correlated and data was received on all tracks within the assigned area.

5.2.19.2. **Q-** . Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors. Ensured system radar correlation check was completed in accordance with the PREP worksheet. Ensured remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.19.3. **U** . Failed to ensure proper sensor/site registration procedures were implemented as required. Failed to direct coordination to resolve registration problems with interfacing units. Failed to ensure sensors were configured and/or optimized to accomplish the mission. Failed to recognize and/or analyze degraded sensor performance. Failed to ensure corrective measures were taken to improve degraded sensor performance. Failed to monitor corrective actions taken to improve degraded sensors. Failed to ensure system radar correlation check was completed in accordance with the PREP worksheet. Failed to ensure

remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that jeopardized mission accomplishment.

5.3. Instructor. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

- 5.3.1. Area 20: Instructor Knowledge.
- 5.3.2. Area 21: Ability to Instruct.
- 5.3.3. Area 22: Briefing/Debriefing.
- 5.3.4. Area 23: Training Forms Preparation/Documentation.

Chapter 6

INTERFACE CONTROL TECHNICIAN EVALUATIONS

6.1. General. This chapter contains the criteria specifying the tasks required of a qualified ICT in accordance with AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 6.1** for ICT and IICT.

6.1.1. Evaluation Objectives .

6.1.1.1. Qualification Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** Qualification evaluations will encompass all areas identified in **Table 6.1**. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight. **(T-3)** ICT qualification evaluations will be conducted either during routine daily operations or Mission Training Exercises. **(T-3)** Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** The evaluation requires the participation of at least one external Theater Air Control System unit or agency. At least one Link 11 or Link 16 will be used. **(T-3)** Link events can occur on different days and/or with different agencies. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with switch actions, sensor knowledge, system capabilities) and an ability to effectively employ that system.

6.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)** Mission evaluations will encompass all required areas identified in **Table 6.1** for the mission profile performed. **(T-3)** All efforts should be made to conduct the evaluation with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. ICT mission evaluation will be conducted, at a minimum, with an AST and an SL during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight. **(T-3)** When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and command and control electronic warfare and HHQ integration. The evaluation should include participation of at least one or more external Theater Air Control System units. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3) Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, link management).

6.1.1.3. There will be instances where an examinee during the mission, accomplished all areas required for both the qualification and the mission evaluations. In this case, the evaluations will be annotated as a QUAL/MSN evaluation. (T-3) Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and a qualification evaluation have been met. (T-3)

Table 6.1. ICT Evaluation Areas.

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		R
4. Console Operations and Displays	R		
5. Positional Changeover Briefing	R		
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures	R		
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
Tactical Employment			
10. Coordination (CRITICAL)	R	R	R
11. Crew Discipline (CRITICAL)	R	R	R
12. Radio/Telephone (R/T) Procedures	R		
13. Tactical Data Link (TDL) Operations	R		R
14. Sensor Operations Team			R
Instructor Areas¹			
15. Instructor Knowledge	R	R	
16. Ability to Instruct	R	R	
17. Briefing/Debriefing	R	R	
18. Training Forms Preparation/Documentation	R	R	
R - Required evaluation area.			
Note:			
1. Only required for instructor qualified crewmembers. A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

6.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFMAN 13-1GBMC2V2 and any criteria listed within the individual areas. (T-2)

6.2.1. Area 1: Mission Planning.

6.2.1.1. **Q** . Extracted information from mission planning documents as directed by the SL/AST. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the FCIF and/or read files.

6.2.1.2. **Q-** . Extracted information from mission planning documents as directed by the SL/AST. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.1.3. **U** . Failed to extract information from mission planning documents as directed by the SL/AST. Did not assist in the preparation of information required for the crew briefing. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

6.2.2. Area 2: Briefing/Debriefing.

6.2.2.1. **Q** . Attended all required briefings/debriefings. Briefed link architecture and equipment status during mission pre-brief or execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating unit, Joint Tactical Information Distribution System (JTIDS) unit, filter plan, etc.).

6.2.2.2. **Q-** . Attended all required briefings/debriefings. Briefed link architecture and equipment status during mission pre-brief or execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating units/JTIDS units, filter plan, etc.). Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.2.3. **U** . Failed to attend all required briefings/debriefings. Did not brief link architecture and equipment status and did not extract/provide all necessary information (i.e., in accordance with unit's track number block, any participating units/JTIDS units, filter plan, etc.). Committed errors or omissions that could have jeopardized mission accomplishment.

6.2.3. Area 3: Equipment Setup and Checkout.

6.2.3.1. **Q** . Configured workstations and JTIDS Module (JM) communications equipment for operations. Ensured operational checks were completed on all necessary equipment (Joint Range Extension (JRE), JTIDS terminal, etc.) before the mission and equipment outages were reported. Ensured radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Set up and operated the communications equipment in accordance with positional checklist. Located and explained communications equipment controls and indicators. Configured the communications equipment for operations as required.

6.2.3.2. **Q-** . Configured workstations and JM communications equipment for operations. Ensured operational checks were completed on all necessary equipment (JRE, JTIDS terminal, etc.) before the mission and equipment outages were reported. Ensured radios

were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Set up and operated the communications equipment in accordance with positional checklist. Located and explained communications equipment controls and indicators. Configured the communications equipment for operations as required. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.3.3. **U** . Failed to configure workstations and/or JM communications equipment for operations. Failed to ensure operational checks were completed on all necessary equipment (JRE, JTIDS terminal, etc.) before the mission and equipment outages were reported. Failed to ensure radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Did not perform initial data link equipment checkout. Did not set up and did not operate the communications equipment in accordance with positional checklist. Failed to locate and explain communications equipment controls and indicators. Did not configure the communications equipment for operations. Committed errors or omissions that jeopardized mission accomplishment.

6.2.4. Area 4: Console Operations and Displays.

6.2.4.1. **Q** . Setup and operated the workstation and JM in accordance with unit checklists. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations.

6.2.4.2. **Q-** . Setup and operated the workstation and JM in accordance with unit checklists. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.4.3. **U** . Failed to setup and operate the workstation and/or JM in accordance with unit checklists. Failed to locate controls and indicators on the JRE and/or workstation. Failed to customize data link and display presentations. Committed errors or omissions that jeopardized mission accomplishment.

6.2.5. Area 5: Positional Changeover Briefing.

6.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

6.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.5.3. **U** . Failed to brief the relieving crewmember on the current operational situation before departing position. Failed to follow positional checklist when conducting positional changeover briefing. Committed errors or omissions that jeopardized mission accomplishment.

6.2.6. Area 6: Emergency Action Procedures and Equipment.

6.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency.

Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

6.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

6.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

6.2.7. Area 7: Authentication Procedures.

6.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

6.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

6.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

6.2.8. Area 8: Security/COMSEC (CRITICAL).

6.2.8.1. **Q** . Controlled COMSEC in accordance with established procedures.

6.2.8.2. **U** . Failed to control COMSEC in accordance with established procedures.

6.2.9. Area 9: Safety (CRITICAL).

6.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and safety hazards. Located and explained the proper use of fire extinguishers.

6.2.9.2. **U** . Failed to locate safety hazards and failed to explain proper use of safety equipment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and explain proper use of fire extinguishers. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

6.2.10. Area 10: Coordination (CRITICAL).

6.2.10.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section, across the sections, and with external agencies as required.

6.2.10.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section, across the sections, and with external agencies as required. Committed errors or omissions that jeopardized mission accomplishment.

6.2.11. Area 11: Crew Discipline (CRITICAL).

6.2.11.1. **Q** . Demonstrated strict, professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

6.2.11.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent that safety or mission accomplishment was compromised.

6.2.12. Area 12: R/T Procedures.

6.2.12.1. **Q** . Employed R/T procedures in accordance with AFTTP 3.3.IPE, Chapter 5. Acknowledged all communications.

6.2.12.2. **Q-** . Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

6.2.12.3. **U** . Failed to employ R/T procedures in accordance with AFTTP 3.3.IPE, Chapter 5. Did not acknowledge all communications.

6.2.13. Area 13: TDL Operations.

6.2.13.1. **Q** . Performed initial data link equipment checkout. Built, initiated, and maintained a RF Link 16 and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed. Modified data link database information as directed. Reported link problems in accordance with established procedures. Used DCN/TSN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the SL/AST. Interpreted and responded to data link messages in a timely manner.

6.2.13.2. **Q-** . Performed initial data link equipment checkout. Built, initiated, and maintained a RF Link 16 and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed. Modified data link database information as directed. Reported link problems in accordance with established procedures. Used DCN/TSN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the SL/AST. Interpreted and responded to data link messages in a timely manner. Committed errors or omission that did not jeopardize mission accomplishment.

6.2.13.3. **U** . Failed to build, initiate, and maintain a RF Link 16 and JREAP at a minimum. Failed to build, initiate, and maintain a Link 11 or Link 11 B, as required. Failed to conduct data link operations as directed. Failed to modify data link database information as directed. Failed to report Link problems in accordance with established procedures. Failed to use DCN/TSN to coordinate with other data link agencies. Did not coordinate the

designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Did not implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Did not recommend changes in data link configurations to the SL/AST. Failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

6.2.14. Area 14: Sensor Operations Team.

6.2.14.1. **Q** . Initialized operations system for use and monitored the status of internal/external communications, operator interface and database information. Established, maintained, and troubleshot data links and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date.

6.2.14.2. **Q-** . Initialized operations system for use and monitored the status of internal/external communications, operator interface and database information. Established, maintained, and troubleshot data links and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Committed errors or omissions that did not adversely affect mission accomplishment and safety.

6.2.14.3. **U** . Failed to initialize operations system for use and did not monitor the status of internal/external communications, operator interface and database information. Failed to establish, maintain, and troubleshoot data links and did not monitor data link effectiveness. Failed to ensure data link configurations were in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information was correct and up to date. Committed errors or omissions that could have jeopardized mission accomplishment.

6.3. Instructor. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

6.3.1. Area 15: Instructor Knowledge.

6.3.2. Area 16: Ability to Instruct.

6.3.3. Area 17: Briefing/Debriefing.

6.3.4. Area 18: Training Forms Preparation/Documentation.

Chapter 7

SURVEILLANCE TECHNICIAN EVALUATIONS

7.1. General. This chapter contains the criteria specifying the tasks required of a qualified Surveillance Technician (ST) in accordance with AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 7.1** for ST and IST.

7.1.1. Evaluation Objectives .

7.1.1.1. Qualification Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** Qualification evaluations will encompass all areas identified in **Table 7.1**. **(T-3)** Efforts should be made to conduct the evaluation with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. ST qualification evaluations will be conducted, at a minimum, with a sensor operations team during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)** Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3) Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with switch actions, sensor knowledge, system capabilities) and an ability to effectively employ that system.

7.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)** Mission evaluations will encompass all required areas identified in **Table 7.1** for the mission profile performed. **(T-3)** Efforts should be made to conduct the evaluation with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1 ST mission evaluations will be conducted at a minimum, with a sensor operations team during a live/virtual/constructive mission. **(T-3)** Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)** When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and command and control electronic warfare and HHQ integration. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3) Note:** The intent of the mission evaluation is for the examinee to

demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, air/ground picture maintenance).

7.1.1.3. There will be instances where an examinee, during the mission, accomplished all areas required for both the qualification and the mission evaluations. In this case, the evaluations will be annotated as a QUAL/MSN evaluation. **(T-3)** Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3)**

Table 7.1. ST Evaluation Areas.

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Tactical Data Link (TDL) Operations	R		
15. Air/Ground Picture Maintenance	R		R
16. Database/System Operations	R		R
17. Voice Tell Operations	R		
18. Track Identification	R		R
Instructor Areas¹			
19. Instructor Knowledge	R	R	R
20. Ability to Instruct	R	R	R
21. Briefing/Debriefing	R	R	R
22. Training Forms Preparation/Documentation	R	R	R
R - Required evaluation area.			
Note:			
1. Only required for instructor qualified crewmembers. A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

7.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFMAN 13-1GBMC2V2 and any criteria listed within the individual areas. (T-2)

7.2.1. Area 1: Mission Planning.

7.2.1.1. **Q** . Extracted information from mission planning documents as directed by the SL/AST. Read and initialed all items in the FCIF and/or read files.

7.2.1.2. **Q-** . Extracted information from mission planning documents as directed by the SL/AST. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.1.3. **U** . Failed to extract information from mission planning documents as directed by the SL/AST. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.2. Area 2: Briefing/Debriefing.

7.2.2.1. **Q** . Attended all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with applicable directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

7.2.2.2. **Q-** . Attended all required briefings/debriefings. Extracted/provided information or conducted briefings/debriefings and/or ensured the aircrew was thoroughly briefed on all aspects of the mission. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.2.3. **U** . Failed to attend all required briefings/debriefings and extract/provide all necessary information. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

7.2.3. Area 3: Equipment Setup and Checkout.

7.2.3.1. **Q** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with checklists.

7.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with checklists. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Did not configure communications equipment for operations as required and

accessed as needed in accordance with checklists. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with checklists. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.4. Area 4: Console Operations and Displays.

7.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air/ground picture.

7.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not perform surveillance-related console operations to maintain an accurate air/ground picture. Committed errors or omissions that jeopardized mission accomplishment.

7.2.5. Area 5: Positional Changeover Briefing.

7.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

7.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.5.3. **U** . Failed to brief the relieving crewmember on the current operational situation before departing position. Did not conduct positional changeover briefing in accordance with positional checklist. Committed errors or omissions that jeopardized mission accomplishment.

7.2.6. Area 6: Emergency Action Procedures and Equipment.

7.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crewmembers immediately.

7.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

7.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crewmembers causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

7.2.7. Area 7: Authentication Procedures.

7.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

7.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

7.2.8. Area 8: Security/COMSEC (CRITICAL).

7.2.8.1. **Q** . Controlled COMSEC in accordance with established procedures.

7.2.8.2. **U** . Failed to Controlled COMSEC in accordance with established procedures.

7.2.9. Area 9: Safety (CRITICAL).

7.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical, and radiation safety hazards. Located and explained the use of fire extinguishers.

7.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to locate safety hazards and explain the proper use of safety equipment. Failed to locate electrical, fire, physical, and radiation safety hazards. Failed to locate and explain proper use of fire extinguishers. Committed errors or omissions that could have jeopardized personnel safety or equipment.

7.2.10. Area 10: Aircraft Emergency (CRITICAL).

7.2.10.1. **Q** . Recognized and reacted to assist the crew in handling an aircraft emergency. Recognized emergency symbols and codes on the scope. Entered an emergency point on the scope. Coordinated emergency responses in a timely manner in accordance with the emergency checklist.

7.2.10.2. **U** . Failed to recognize and/or assist the crew in handling an aircraft emergency. Failed to recognize emergency symbols or codes on the scope. Failed to enter an emergency point on the scope. Failed to coordinate emergency responses in a timely manner in accordance with the emergency checklist. Committed errors or omissions that endangered aircrews and aircraft and jeopardized mission accomplishment.

7.2.11. Area 11: Coordination (CRITICAL).

7.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

7.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets are available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that endangered aircrews and aircraft and jeopardized mission accomplishment.

7.2.12. Area 12: Crew Discipline (CRITICAL).

7.2.12.1. **Q** . Demonstrated strict, professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

7.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

7.2.13. Area 13: R/T Procedures.

7.2.13.1. **Q** . Employed R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

7.2.13.2. **Q-** . Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

7.2.13.3. **U** . Failed to employ R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Did not acknowledge all communications.

7.2.14. Area 14: TDL Operations.

7.2.14.1. **Q** . Modify and maintain a common tactical picture. Reported data link problems in accordance with established procedures. Utilized the DCN/TSN to coordinate with other data link agencies. Interpreted and responded to data link messages in a timely manner.

7.2.14.2. **Q-** . Modify and maintain a common tactical picture. Reported data link problems in accordance with established procedures. Utilized the DCN/TSN to coordinate with other data link agencies. Interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.14.3. **U** . Failed to modify and maintain a common tactical picture. Did not report data link problems established procedures. Failed to utilize the use of the DCN/TSN to coordinate with other data link in accordance with k agencies. Did not interpret and/or respond to data link messages in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.15. Area 15: Air/Ground Picture Maintenance.

7.2.15.1. **Q** . Interpreted track symbols and modifiers. Read and interpreted information displayed on scope. Took appropriate actions associated with initiating and maintaining tracks. Maintained surveillance tracks within 2 nautical miles of radar data.

7.2.15.2. **Q-** . Interpreted track symbols and modifiers. Read and interpreted information displayed on scope. Took appropriate actions associated with initiating and maintaining tracks. Maintained surveillance tracks within 2 nautical miles of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.15.3. **U** . Failed to use system displays to maintain an air picture. Failed to interpret track symbols and modifiers. Failed to read and interpret information displayed on scope. Failed to take appropriate actions associated with initiating and maintaining tracks. Failed

to maintain surveillance tracks within 2 nautical miles of radar data. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.16. Area 16: Database/System Operations.

7.2.16.1. **Q** . Ensured database ATO information was correct and current. Managed the database and system configuration. Recommended system configuration changes to the crew lead as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

7.2.16.2. **Q-** . Ensured database ATO information was correct and current. Managed the database and system configuration. Recommended system configuration changes to the crew lead as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.16.3. **U** . Failed to ensure database ATO information was correct and current. Failed to manage the database and system configuration. Did not recommend system configuration changes to the crew lead as appropriate. Failed to configure system and database as required. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

7.2.17. Area 17: Voice Tell Operations

7.2.17.1. **Q** . Performed Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed.

7.2.17.2. **Q-** . Performed Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.17.3. **U** . Failed to perform Voice Tell operations AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.18. Area 18: Track Identification.

7.2.18.1. **Q** . Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols.

7.2.18.2. **Q-** . Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.18.3. **U** . Failed to identify air tracks in the assigned area in accordance with identification procedures specified by the ROE. Did not comply with identification procedures specified in the ROE. Failed to locate and/or use switch actions to identify tracks. Failed to interrogate IFF/SIF. Failed to use switch actions to display appropriate ID

symbols. Committed errors or omissions that could have resulted in fratricide or jeopardized mission accomplishment.

7.3. Instructor. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

7.3.1. Area 19: Instructor Knowledge .

7.3.2. Area 20: Ability to Instruct.

7.3.3. Area 21: Briefing/Debriefing.

7.3.4. Area 22: Training Forms Preparation/Documentation.

Chapter 8

MISSION SYSTEM OPERATOR

8.1. General. This chapter contains the criteria specifying the tasks required of a qualified MSO in accordance with AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 8.1** for MSO and Instructor MSO.

8.1.1. Evaluation Objectives.

8.1.1.1. Qualification Evaluation . The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** Qualification evaluations will encompass all areas identified in **Table 8.1**. **(T-3)** All efforts should be made to conduct the evaluation during a live/virtual/constructive mission with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. MSO qualification evaluations will be conducted, at a minimum, with a battle management team and applicable technicians during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)** Tasks not observed and assessed during the normal course of evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3)** The evaluation should include either by live or SIM the participation of one or more external theater air control system unit or agency. At least one tactical digital information link will be used. **(T-3)** Link events can occur on different days and/or with different agencies. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with switch actions, sensor knowledge, system capabilities) and an ability to effectively employ that system.

8.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation area table. **(T-3)** Mission evaluations will encompass all required areas identified in **Table 8.1** for the mission profile performed. **(T-3)** All efforts should be made to conduct the evaluation with a full operations crew as defined in AFMAN 13-1CRCV3, Table 6.1. MSO mission evaluation will be conducted, at a minimum, with a battle management team and applicable technicians during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)** Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, MSN qualification will replicate LFE scenarios with supporting theater documents (SPINS, ROE, air tasking order/airspace control order (ATO/ACO), etc.), mission packages, and command and control electronic warfare and HHQ integration. **(T-3)** The evaluation should include either by live or SIM the participation of one or more external theater air control system unit or agency. Evaluations during exercises or exercise deployments are

encouraged. Evaluations during contingency/combat deployment may only be given after all extensions have been exhausted as a last resort to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3) Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, air/ground picture management, sensor employment).

8.1.1.3. There will be instances where an examinee, during the mission, accomplishes all areas required for both the QUAL and MSN evaluations. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3)** Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and qualification evaluation have been met. **(T-3)**

8.1.1.4. Completion of an MSO and/or Instructor MSO evaluation includes demonstrations of competence as an ICT and an ST. An Examiner MSO may accomplish evaluations on ICT, ST, and other MSOs. Additionally, Examiner MSOs who were previously qualified as ASTs may continue to evaluate ASTs.

8.1.1.5. Instructor MSOs that were previously qualified as Instructor ASTs, Instructor ICTs, and/or Instructor STs may continue to instruct those crew positions when authorized by the unit LoX.

8.1.1.5.1. AF Form 8 may include one of the following restrictions, as applicable.

8.1.1.5.1.1. RESTRICTION: Examinee may only instruct MSO and ST.

8.1.1.5.1.2. RESTRICTION: Examinee may only instruct MSO, ICT, and ST.

Table 8.1. Mission Systems Operator (MSO) Evaluation Areas.

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		R
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Crew Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Battle Management	R		R
14. Air/Ground Picture Maintenance	R		R
15. Database Initialization/Management and System Operations	R		R
16. Sensor Operations	R		R
17. Radio/Telephone (R/T) Procedures	R		R
18. Tactical Data Link (TDL) Operations	R		R
19. Voice Tell Operations	R		
20. Track Identification	R		R
Instructor Areas¹			
21. Instructor Knowledge	R	R	R
22. Ability to Instruct	R	R	R
23. Briefing/Debriefing	R	R	R
24. Training Forms Preparation/Documentation	R	R	R
R – Required evaluation area			
Note:			
1. Only required for instructor qualified crew members. A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

8.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFMAN 13-1GBMC2V2 Stan/Eval and any criteria listed within the individual areas. (T-2)

8.2.1. Area 1: Mission Planning.

8.2.1.1. **Q** . Extracted information from mission planning documents as directed by the crew/team lead. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the FCIF and/or read files.

8.2.1.2. **Q-** . Extracted information from mission planning documents as directed by the crew/team lead. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.1.3. **U** . Failed to extract information from mission planning documents as directed by the crew/team lead. Failed to assist in the preparation of information required for the crew briefing. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.2. Area 2: Briefing/Debriefing.

8.2.2.1. **Q** . Attended and participated in all required briefing/debriefings and extracted/provided all necessary information. Briefed link architecture, as needed, during execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating unit, JTIDS unit, filter plan, etc.). Provided specific instructional fixes to correct errors and requested input from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

8.2.2.2. **Q-** . Attended and participated in all required briefing/debriefings and extracted/provided all necessary information. Briefed link architecture during, as needed, execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating unit, JTIDS unit, filter plan). Provided specific instructional fixes to correct errors and requested input from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.2.3. **U** . Failed to attend or participate in all required briefing/debriefings or extract/provide all necessary information. Did not brief, if needed, link architecture or equipment status and did not extract/provide all necessary information (i.e., in accordance with unit's track block number, any participating units/JTIDs units, filter plan). Failed to establish or maintain team concept or environment for open communications and feedback. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.3. Area 3: Equipment Setup/Checkout.

8.2.3.1. **Q** . Configured workstations and data link communications equipment for operations. Ensured operational checks were completed on all equipment (to include JRE, data link equipment, etc.) before mission or as required. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured mission profile, overlays, and doctrine as planned for mission execution. Performed initial data link equipment checkout. Setup, configured, and operated the communications equipment and display/workstation to optimize situational awareness in accordance with positional checklist.

8.2.3.2. **Q-** . Configured workstations and data link communications equipment for operations. Ensured operational checks were completed on all equipment (to include JRE, JTIDS terminal, etc.) before mission or as required. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured mission profile, overlays, and doctrine as planned for mission execution. Performed initial data link equipment checkout. Setup, configured, and operated the communications equipment and display/workstation

to optimize situational awareness in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.3.3. **U** . Failed to configure workstations and/or data link communications equipment for operations. Failed to ensure operational checks were completed on all equipment (to include JRE, JTIDS terminal, etc.) before mission or as required. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure mission profile, overlays, and doctrine as planned for mission execution. Failed to perform initial data link equipment checkout. Failed to setup, configure, and operate the communications equipment and display/workstation to optimize situational awareness in accordance with positional checklists. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.4. Area 4: Console Operations and Displays.

8.2.4.1. **Q** . Setup and operated the workstation and data link equipment in accordance with unit checklist. Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations.

8.2.4.2. **Q-** . Setup and operated the workstation and data link equipment in accordance with unit checklist. Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.4.3. **U** . Failed to setup and operate the workstation and/or data link equipment in accordance with unit checklist. Failed to interpret, initiate, and update data for computer displays. Failed to response to alarms and alerts. Failed to perform surveillance-related console operations to maintain an accurate air/ground picture. Could not locate controls and/or indicators on the JRE, and/or workstation, or could not customize data and display presentations. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.5. Area 5: Positional Changeover Briefing.

8.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional briefing in accordance with positional checklist.

8.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.5.3. **U** . Failed to brief the relieving crewmember on the current operational situation before departing position. Failed to follow positional checklist when conducted positional changeover briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.6. Area 6: Emergency Action Procedures and Equipment.

8.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing the reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

8.2.6.2. **Q-** . Committed errors, omissions, or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

8.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/or jeopardized mission accomplishment.

8.2.7. Area 7: Authentication Procedures.

8.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

8.2.7.2. **Q-** . Authenticated voice transmission within time limited specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.7.3. **U** . Committed errors or omission that jeopardized mission accomplishment.

8.2.8. Area 8: Security/COMSEC (CRITICAL).

8.2.8.1. **Q** . Used and maintained positive control of all COMSEC equipment (i.e., in accordance with simple key loader (SKL), load cable, and bag) and materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O, *Communication Security (COMSEC) Operations*.

8.2.8.2. **U** . Failed to use and maintain positive control of all COMSEC equipment (i.e., in accordance with SKL, load cable, and bag) and materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

8.2.9. Area 9: Safety (CRITICAL).

8.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical, and radiation safety hazards. Located and explain the proper use of fire extinguishers.

8.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation and mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and explain the proper use of safety equipment. Failed to locate electrical, fire, physical, and radiation safety hazards. Failed to locate and explain the proper use of fire extinguishers. Committed errors or omissions that could have jeopardized personnel safety or equipment.

8.2.10. Area 10: Aircraft Emergency (CRITICAL).

8.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted the crew in handling an aircraft emergency. Entered the appropriate emergency point on the scope. Notified crewmembers of the aircraft emergency. Coordinated responses in accordance with an emergency checklist.

8.2.10.2. **U** . Failed to recognize an aircraft emergency. Failed to assist the crew in handling an aircraft emergency. Failed to respond in a timely manner and failed to enter the appropriate emergency point on the scope. Did not notify crewmembers of the aircraft emergency. Did not follow the aircraft emergency checklist. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

8.2.11. Area 11: Crew Coordination (CRITICAL).

8.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section, cross-sections, and with external agencies as required.

8.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section, cross-sections, and/or with external agencies as required. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.12. Area 12: Crew Discipline (CRITICAL).

8.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

8.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent that safety or mission accomplishment was compromised.

8.2.13. Area 13: Battle Management.

8.2.13.1. **Q** . Executed the assigned mission in a timely, efficient manner with a battle management team and supported the crew/team lead on employment of resources; JAOP, OPLAN, ATO/ACO, OPTASKLINK, SPINS, and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported, and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supported or, when delegated, supervised electronic protection efforts to counter electronic attack, and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew and complied with EMCON plan.

8.2.13.2. **Q-** . Executed the assigned mission in a timely, efficient manner with a battle management team and provided guidance to the crew/team lead on employment of

resources; JAOP, OPLAN, ATO/ACO, OPTASKLINK, SPINS, and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported, and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supported or, when delegated, supervised electronic protection efforts to counter electronic attack, and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew and complied with EMCON plan. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.13.3. **U** . Failed to execute the assigned mission in a timely, efficient manner with a battle management team. Failed to provide guidance to the crew/team lead on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASKLINK, SPINS, and other mission specific documents, procedures, and taskings. Failed to access ROE and ID procedures based on changing alert conditions. When delegated, failed to authorize declaration of targets in accordance with theater ID matrix, and ROE. Did not monitor detection, tracking, and ID of air traffic within the assigned area. When delegated, failed to supervise the declaration of targets as hostile based on hostile intent/hostile act criteria and level of authority. Did not support, or when delegated, supervise electronic protection efforts to counter electronic attack and failed to disseminate air defense warnings as required. Did not monitor and/or support PR/CSAR efforts as tasked. Failed to recognize or respond to an ARM attack profile warning and failed to notify the crew and did not comply with EMCON plan. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.14. Area 14: Air/Ground Picture Maintenance

8.2.14.1. **Q** . Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the crew. Maintained surveillance tracks within 2 nautical miles of radar data.

8.2.14.2. **Q-** . Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the crew. Maintained surveillance tracks within 2 nautical miles of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.14.3. **U** . Failed to ensure timely and/or accurate collection, display, and/or dissemination of air surveillance data to higher, lateral, and/or subordinate units as appropriate. Failed to ensure the implementation of the ACO while providing safe passage advisories. Failed to ensure active ACMs were properly displayed and did not coordinate their activation and deactivation of ACMs with the crew. Failed to maintain surveillance tracks within the 2 nautical miles of radar data. Committed errors or omissions that jeopardized mission accomplishment.

8.2.15. Area 15: Database Initialization/Management and System Operations.

8.2.15.1. **Q** . Initiated, modified, and managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared, and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

8.2.15.2. **Q-** . Initiated, modified, and managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared, and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.15.3. **U** . Failed to initiate, modify, manage database as directed to meet operational needs. Failed to select, copy, delete, review, rename, share, and/or create entries as necessary. Failed to ensure database ATO/ACO was correct. Did not recommend appropriate system configuration changes. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

8.2.16. Area 16: Sensor Operations.

8.2.16.1. **Q** . Initialized operations system for use and monitored the status of internal/external communications, operator interface, database information, sensor fusion, and Multi-Source Correlator Tracker (MSCT) criteria. Ensured proper sensor/site registration procedures were implemented as required. Coordinated to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance.

8.2.16.2. **Q-** . Initialized operations system for use and monitored the status of internal/external communications, operator interface, database information, sensor fusion, and MSCT criteria. Ensured proper sensor/site registration procedures were implemented as required. Coordinated to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Committed errors or omissions that did not adversely affect mission accomplishment and safety.

8.2.16.3. **U** . Failed to initialize the operations system for use and to monitor the status of internal/external communications, operator interface, database information, sensor fusion, and MSCT criteria. Failed to ensure proper sensor/site registration procedures were implemented as required. Failed to coordinate to resolved registration problems with interfacing units. Failed to ensure sensors were configured and/or optimized to accomplish the mission. Failed to recognize and/or analyze degraded sensor performance. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.17. Area 17: Radio/Telephone (R/T) Procedures.

8.2.17.1. **Q** . Employed R/T procedures with an external agency in accordance with air force communications standards and applicable publications. Acknowledged all communications.

8.2.17.2. **Q-** . Employed R/T procedures with an external agency with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omission or delays that did not jeopardized mission accomplishment or safety.

8.2.17.3. **U** . Failed to employ R/T procedures with external agency in accordance with air force communications standards and applicable publications. Did not acknowledge all communications.

8.2.18. Area 18: Tactical Data Link (TDL) Operations

8.2.18.1. **Q** . Performed initial data link equipment checkout. Built, initiated, and maintained a radio frequency (RF) Link 16 and JRE Application Protocol (JREAP) at a minimum. Built, initiated, and maintained a Link 11 or Link 11B as required. Conducted data link operations as directed and reported link problems in accordance with established procedures. Modified data link database information as directed. Established, maintained, and troubleshoot data links, and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Utilized the data link coordination DCN/TCN to coordinate with other data link agencies, coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the SL as appropriate and interpreted and responded to data link messages in a timely manner.

8.2.18.2. **Q-** . Performed initial data link equipment checkout. Built, initiated, and maintained a RF Link and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11B as required. Conducted data link operations as directed and reported link problems in accordance with established procedures. Modified data link database information as directed. Established, maintained, and troubleshoot data links, and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Utilized the DCN/TSN to coordinate with other data link agencies, coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the team lead as appropriate and interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.18.3. **U** . Failed to perform initial data link equipment checkout. Failed to build, initiate, and maintain a RF Link and a JREAP at a minimum. Failed to build, initiate, and maintain a Link 11 or Link 11B as required. Failed to conduct data link operations as directed and failed to report link problems in accordance with established procedures. Failed to modify data link database information as directed. Failed to establish, maintain, and troubleshoot data links, and monitor data link effectiveness. Failed to ensure data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Failed to use DCN/TSN to coordinate with other data link agencies, did not coordinate the designation, and use of frequencies

and/or channels assigned to interface data links, and voice coordination networks. Did not implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Did not recommend changes in data link configurations to the team lead as appropriate and failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

8.2.19. Area 19: Voice Tell Operations.

8.2.19.1. **Q** . Performed Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed.

8.2.19.2. **Q-** . Performed Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.19.3. **U** . Failed to perform Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE. Committed errors or omissions that jeopardized mission accomplishment.

8.2.20. Area 20: Track Identification.

8.2.20.1. **Q** . Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Read and interpreted information displayed on scope. Interpreted track symbols and modifiers. Took appropriate actions associated with initiating and maintaining tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols.

8.2.20.2. **Q-** . Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Read and interpreted information displayed on scope. Interpreted track symbols and modifiers. Took appropriate actions associated with initiating and maintaining tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.20.3. **U** . Failed to identify air tracks in the assigned area in accordance with identification procedures specified by the ROE. Did not comply with identification procedures specified in the ROE. Failed to locate and/or use switch actions to identify tracks. Failed to interrogate IFF/SIF. Failed to use switch actions to display appropriate ID symbols. Committed errors or omissions that jeopardized mission accomplishment.

8.3. Instructor. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

- 8.3.1. Area 21: Instructor Knowledge.
- 8.3.2. Area 22: Ability to Instruct.
- 8.3.3. Area 23: Briefing/Debriefing.
- 8.3.4. Areas 24: Training Forms Preparation/Documentation.

ADRIAN L. SPAIN, Lt Gen, USAF
Deputy Chief of Staff for Operations

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

DAFPD 13-1, *Command and Control Enterprise (C2) Enterprise*, 21 April 2021

DAFMAN 90-161, *Publishing Processes and Procedures*, 18 October 2023

AFI 33-322, *Records Management and Information Governance Program*, 23 March 2020

AFMAN 13-1CRCV3, *Operating Procedures Control and Reporting Center (CRC)*, 3 November 2020

AFMAN 17-1302-O, *Communications Security (COMSEC) Operations*, 9 April 2020

AFTTP 3-3.IPE, *Integrated Planning and Employment (IPE)*, 3 April 2020

Prescribed Forms

None

Adopted Forms

AF Form 8, *Certification of Aircrew Qualification*

DAF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

ABM—Air Battle Manager

ACC—Air Combat Command

ACM—Airspace Control Measure

ACO—Airspace Control Order

ACP—Airspace Control Plan

ADA—Air Defense Artillery

ADAFCO—Air Defense Artillery Fire Control Officer

AETC—Air Education and Training Command

AF—Air Force

AFGM—Air Force Guidance Memorandum

AFI—Air Force Instruction

AFTTP—Air Force Tactics Techniques and Procedures

ANG—Air National Guard

AOR—Area of Responsibility

ARM—Anti-Radiation Missile

AST—Air Surveillance Technician
ATO—Air Tasking Order
BC3-AF—Battlespace Command and Control Center - Air Force
BMC—Basic Mission Capable
BMC2—Battle Management Command and Control
C2—Command and Control
CAP—Combat Air Patrol
CMR—Combat Mission Ready
COMSEC—Communications Security
CRC—Control and Reporting Center
CSAR—Combat Search and Rescue
CSB—Consolidated Simulation Building
DAF—Department of the Air Force
DAFI—Department of the Air Force Instruction
DAFMAN—Department of The Air Force Manual
DAFPD—Department of the Air Force Directive
DCN—Data link Coordination Network
DRU—Direct Reporting Unit
EMCON—Emissions Control
EQ—Exceptionally Qualified
FCIF—Flight Crew Information File
FOA—Forward Operating Agency
FTU—Formal Training Unit
GBMC2—Ground Battle Management Command and Control
HAF—Headquarters Air Force
HHQ—Higher Headquarters
HQ—Headquarters
IAST—Instructor Air Surveillance Technician
ICT—Interface Control Technician
IICT—Instructor Interface Control Technician
ID—Identification
IFF—Identification Friend or Foe

IQT—Initial Qualification Training
IST—Instructor Surveillance Technician
JAOP—Joint Air Operations Plan
JM—JTIDS Module
JRE—Joint Range Extension
JREAP—Joint Range Extension Application Protocol
JTIDS—Joint Tactical Information Distribution System
LFE—Large Force Employment
LOA—Letter of Agreement
LoX—Letter of Certifications/Qualification
MAJCOM—Major Command
MSCT—Multi-Source Correlator Tracker
MSN—Mission Qualification
MQT—Mission Qualification Training
MSO—Mission Systems Operator
OPLAN—Operations Plan
OPR—Office of Primary Responsibility
OPTASKLINK—Operational Tasking Data Link
PPLI—Precise Participant Location and Identification
PR—Personnel Recovery
PREP—Periodic Radar Evaluation Program
Q—Qualified—QUAL—Qualification
RF—Radio Frequency
ROE—Rules of Engagement
RQ—Requalification
R/T—Radio/Telephone
SEE—Stan/Eval Examiner
SIF—Selective Identification Feature
SIM—Simulation
SKL—Simple Key Loader
SL—Section Lead
SPINS—Special Instructions

ST—Surveillance Technician

Stan/Eval—Standardization/Evaluation

TDL—Tactical Data Link

TOD—Time of Day

TSN—Track Supervision Network

U—Unqualified—USAFE-AFAFRICA—United States Air Forces Europe-Air Forces Africa

WD—Weapons Director

Office Symbols

19 AF/A3V—19th Air Force Standardization and Evaluation Division

ACC/A3—Air Combat Command, Director of Operations

ACC/A3C—Air Combat Command Command and Control Intelligence Surveillance and Reconnaissance Division

ACC/A3CG—Air Combat Command Ground Battle Management Branch

ACC/A3TV—Air Combat Command Standardization Branch

AF/A3T—Air Force Training and Readiness Directorate

AF/A3TE—Air Force Exercises and Training Directorate

NGB A3/10—National Guard Bureau Airfield Operations and Command and Control Forces Division

PACAF/A3/10—Pacific Air Forces Theater Air Control System Command and Control Branch

PACAF/A3/6C—Pacific Air Forces Air and Cyberspace Operations Branch

USAFE-AFAFRICA/A3ZJ—United States Air Forces in Europe-Air Forces Africa Joint All-Domain Command and Control Management Branch

Terms

Additional Training—Any training or action recommended by an examiner to remedy deficiencies identified during an evaluation.

Basic Mission Capable (BMC)—A crew member who has satisfactorily completed IQT and MQT, is qualified in some aspect of the unit mission, but does not maintain CMR status. The crewmember must be able to attain full qualification to meet operational taskings within 30 duty days. This status also applies to those individuals who are assigned to a unit that does not have a DOC tasking. BMC crewmembers do not maintain CMR status due to duty assignment or other reasons as determined by the appropriate authority.

Certification—1) Procedure used to document competency in a particular task. Not interchangeable with “qualification,” which requires AF Form 8 documentation. 2) A formal indication of an individual’s ability to perform a task to required standards. 3) The formal action of completing/signing documentation taken by a certification official, e.g., “the unit commander certified the AF Form 8”.

Combat Mission Ready (CMR)—The status of an individual who successfully completes IQT and MQT, and maintains qualification and proficiency in the unit combat mission.

Constructive Missions—Constructive entities simulate real world or virtual systems automatically, or manually driven by an operator or a white force personnel supporting distributed training that operate as training aids for warfighters accomplishing readiness training. Models and simulations that involve simulated people operating simulated systems. Real people stimulate (make inputs) to such simulations. Constructive simulations can also be used to model natural processes without human involvement (e.g. weather).

Mission Evaluation (MSN)—An evaluation given after MQT to certify an individual as CMR.