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SECRETARY OF THE AIR FORCE**

**AIR FORCE MANUAL 13-1
BATTLE CONTROL CENTER, VOLUME 2**



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***Nuclear, Space, Missile, Command and
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recommended changes and questions about this publication to the office of primary responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional chain of command. See [paragraph 1.2](#) for additional guidance. This publication may be supplemented at any level, but all supplements must be routed to the publication OPR for coordination prior to certification and approval. For more information on supplements, see [paragraph 1.3.1](#). The authorities to waive wing/unit level requirements in this publication are identified with a Tier (e.g., “T-0, T-1, T-2, T-3”) number following the compliance statement. See DAFI 33-360 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 (CC) for non-tiered compliance items. See [paragraph 1.3.2](#) for additional waiver guidance.

SUMMARY OF CHANGES

This publication has been completely revised and rewritten to reflect the ground command and control systems standardization and evaluation (Stan/Eval) program--battle control center evaluation criteria of the air defense units. This publication does not imply any manpower growth, and it must be completely reviewed due to numerous operational changes. Changes include the update of each duty position criteria evaluation area, removal of some technician duty positions and associated criteria, addition of instructor evaluation criteria, format of the duty position areas and administrative changes as necessary. Waiver authorities have been changed to reflect guidance in DAFI 33-360.

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Chapter 1

INTRODUCTION

1.1. Purpose. This publication establishes the evaluation criteria to be used by a Stan/Eval examiner (SEE) when conducting qualification (QUAL)/mission (MSN), instructor, and spot evaluations in accordance with Air Force Instruction (AFI) 13-1 STAN/EVAL Volume 2, *Ground Command and Control Systems Standardization/Evaluation Program-Organization and Administration*. Specific areas are prescribed to ensure an accurate assessment of the proficiency and capabilities of operations personnel. Reference to forms within this publication also equates to electronic products when authorized.

1.2. Recommendations for Change. Recommendations for changes are encouraged, and must focus on specific areas and standards of performance. Forward recommend changes in accordance with DAFI 33-360 through channels (Air Combat Command (ACC)/A3C, PACAF/A3/6CX, or to AF/A3TY using AF Form 847. AF/A3TY is the approval authority for interim changes to this publication.

1.3. Supplements and Waivers.

1.3.1. Supplements.

1.3.1.1. MAJCOMs will coordinate their supplement to this publication with ACC or A3C before publication and forward one copy to AF/A3TY after publication. **(T-2)** MAJCOM/A3 approves MAJCOM supplements. Supplements will not contain procedures that are contrary to this publication.

1.3.1.2. Units will coordinate their supplement with the next higher Group or Numbered Air Force (NAF), as applicable, prior to MAJCOM approval. **(T-2)** MAJCOM OPR (ACC/A3C, PACAF/A3/6CX) will approve unit supplements. **(T-2)** Air National Guard (ANG) units will coordinate supplement to the organization with Stan/Eval oversight responsibility who in-turn will forward to the gaining MAJCOM for approval. **(T-2)** Units will forward a copy of their supplement to said higher headquarters after publication. **(T-2)**

1.3.2. Waivers.

1.3.2.1. Waiver authority for requirements of this volume are in accordance with DAFI 33-360. Commanders (or civilian directors) of the unit seeking a waiver must request the waiver through the command chain up to the appropriate tier approval authority (i.e., Tier 0, 1, 2, 3) (or publications approval authority if non-tiered). **(T-2)** See DAFI 33-360 for definition of tier ratings. Tier 3 waiver authorities for this publication are as follows: (1) AFNORTH/A3 for 224th and 225th Air Defense Squadrons (ADS) (2) 611 AOC/CC for 176 ADS; (3) 298 ADG/CC for 169 ADS; (4) 607 AOC/CC for 621st Air Control Squadron (ACS); (5) 35 FW/CC for 610th Air Control Flight (ACF); and (6) 18 WG/CC for 623 ACF.

1.3.2.2. Waiver requests may be sent via email or memorandum, and shall include the following:

1.3.2.2.1. Reference and text of the specific requirement for which the commander (CC) or director is requesting a waiver. **(T-2)**

1.3.2.2.2. Rationale for the waiver. **(T-2)** Explain which of the following three reasons in accordance with DAFI 33-360, apply and describe why:

1.3.2.2.2.1. The cost of compliance creates unacceptable risk to a higher priority task;

1.3.2.2.2.2. The expected cost of compliance outweighs the benefit;

1.3.2.2.2.3. Personnel cannot comply with the requirement due to a lack of guidance or resources (training, funds, equipment, facilities, or manpower).

1.3.2.2.3. Circumstance for which the waiver is required (to include time period required).

1.3.2.2.4. Risk mitigation measures the requesting CC implements during the waiver period.

1.3.2.2.5. Impact if waiver is disapproved.

1.3.2.3. Unit OPR will upload approved waivers into the unit's management internal control toolset for inspection activity review and publication OPR's situational awareness and filing. **(T-3)**

1.3.2.4. PACAF/A3/6CX will forward a copy of all approved waivers for their units to ACC/A3C and NGB A2/3/6/10Y. **(T-2)** ACC/A3C will, in turn, forward a copy of all approved waivers for their units to PACAF/A3/6CX, NGB/A2/3/6/10Y, and AF/A3TY. **(T-2)** Units will forward all approved waivers and report all deviations or exceptions without waiver, through their chain of command, to MAJCOM OPR. **(T-2)**

1.3.2.5. Duration of waivers may be approved for a period not to exceed the requested waiver period or 30 calendar days after the approving CC's tour length, whichever is shorter.

1.3.2.6. File a copy of approved written waivers with this volume in accordance with DAFI 33-360.

1.4. Roles and Responsibilities.

1.4.1. ACC/A3C is the Office of Primary Responsibility (OPR) for this volume, the Lead Command for the Battle Control Center weapon system and:

1.4.1.1. Coordinates all changes to the volume with applicable MAJCOM/A3s.

1.4.1.2. Forwards change recommendations to AF/A3TY.

1.4.1.3. Coordinates Air Force Guidance Memorandums and Interim Changes with NGB and PACAF OPRs prior to approval.

1.4.1.4. Provides overarching Lead Command guidance and monitors the overall training program.

1.4.1.5. Provides command assistance in the resolution of major training problems and coordinates with agencies both internal and external to the command for training equipment, to include contracted training.

1.4.1.6. Ensures allocation of training materials to meet training requirements.

1.4.1.7. Establishes standards, tasks, and formal training requirements. Act as the OPR for crew positional syllabi and provides training materials.

1.4.1.8. Provides assistance, guidance, and resources for the implementation, direction, and monitoring of the training program.

1.4.1.9. Monitors/facilitates training programs to ensure all crew members are prepared to perform roles and missions.

1.4.1.10. Conducts Staff Assistance Visits (SAV) to subordinate units when requested by unit commander (CC) to monitor and assist with implementation of unit training programs.

1.4.2. PACAF Theater Air Control System C2 Branch (A310):

1.4.2.1. Uses MAJCOM-specific supplements for unique mission considerations/requirements and establishes individual unit tasking as required.

1.4.2.2. As the theater OPR for MAJCOM-level training matters, provides assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the training program.

1.4.2.3. Monitors/facilitates training programs to ensure all units are prepared to perform roles and missions.

1.4.2.4. Monitors/coordinates actions to correct training deficiencies.

1.4.2.5. Conducts SAVs to subordinate units when requested by unit CC to monitor and assist with the implementation of unit training programs.

1.4.2.6. Provides courtesy copy of all approved waivers affecting PACAF BCC units to ACC and National Guard Bureau (NGB).

1.4.2.7. Reviews and approves subordinate unit directives (as required) to ensure compliance with published directives.

1.4.3. National Guard Bureau Airfield Operations and Command and Control Forces Division (NGB/A2/3/6/10Y) functions as the NGB OPR, and uses supplements for unique ANG considerations/requirements.

1.4.4. Numbered Air Force (NAF):

1.4.4.1. Maintains oversight of lower echelon active component/ANG units for which oversight responsibility is assigned. The NAFs will establish an OPR to ensure effective monitoring of subordinate units. **(T-2)**

1.4.4.2. Supports the MAJCOM/IG as required as part of the Unit Effectiveness Inspection (UEI) program.

1.4.4.3. Employs qualified augmentees to support or conduct crewmember evaluations with concurrence of all the NAF Stan/Eval organizations involved.

1.4.4.4. Provides qualified examiners to augment other MAJCOM and NAF agencies when requested.

- 1.4.4.4.1. NAF examiners will, as a minimum, maintain Basic Mission Capable (BMC) status. **(T-2)**
- 1.4.4.4.2. Examiners may receive their evaluations from any like-qualified examiner in the same crew position.
- 1.4.4.5. Coordinates and processes applicable AF Form 847s through Stan/Eval channels in accordance with AFI 11-215, *USAF Flight Manuals Program (FMP)*.
- 1.4.4.6. ANG units will utilize the NAF/MAJCOM command structure with oversight responsibility and coordinate with NGB/A3. **(T-2)**
- 1.4.4.7. Provides staff coordination and control of OIF items issued from the NAF level to units.
- 1.4.4.8. Observes execution of unit missions and provide feedback during SAVs.
- 1.4.4.9. Reviews, coordinates, and approves subordinate unit supplements to this publication.
- 1.4.4.10. Initiates corrective action to eliminate noted discrepancies or deficiencies when HHQ action is required. Ensures unit corrective actions are satisfactory.
- 1.4.4.11. Reviews subordinate unit Stan/Eval Board (SEB) minutes and, at a minimum, address any action items requiring HHQ assistance.
- 1.4.4.12. Assists in the creation, review, updating, and distribution of required MQFs. NAF coordinates on unit submissions to correct deficiencies to MQFs.
- 1.4.5. Unit Commanders:
 - 1.4.5.1. Ensure personnel/crews are trained to a level of mission/combat readiness that meets the unit's operational requirements.
 - 1.4.5.2. Request waivers in accordance with guidance provided in this volume.
 - 1.4.5.3. Ensure adequate continuity and supervision of crew/individual training needs, experience, as well as the proficiencies of assigned and attached crewmembers.
 - 1.4.5.4. Appoint an evaluator qualified AFSC 13B (or Canadian equivalent) as the Chief of Stan/Eval, in writing, to implement and manage the operations standardization and evaluation program.
 - 1.4.5.5. Ensure training scenarios develop and practice crew duties to include crew integration and current tactics, techniques, and procedures.
- 1.4.6. Flight Commanders and Supervisors:
 - 1.4.6.1. Ensure crew members are CMR/BMC in the duty position they are performing, or supervised by an instructor.
 - 1.4.6.2. Ensure event objectives are briefed, debriefed, and assessed to determine successful accomplishments.
- 1.4.7. Examiners:
 - 1.4.7.1. Examiners at HHQ/NAF/Group and unit levels administer the evaluation portion of the Stan/Eval Program.

1.4.7.2. The Unit/CC will select and designate unit examiners, in writing, in accordance with applicable supplement. **(T-3)**

1.4.7.2.1. Unit examiners must demonstrate a working knowledge of the MAJCOM Stan/Eval Program in accordance with the applicable unit supplement. **(T-3)**

1.4.7.2.2. Specific crew position examiner functions, roles and responsibilities are in accordance with AFI 13-1, Volume 2.

1.5. 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 should be limited to items not determined by observation, but related to the scenarios being employed for evaluation.

1.6. Evaluation Procedures.

1.6.1. Examiners conduct evaluations in accordance with this publication. Examiners will administer positional evaluations only within their weapon system and crew specialty and only evaluate those missions and skill sets in which they maintain qualification. **(T-2)**

1.6.2. Examiners may conduct any portion of a mission crew positional evaluation that is associated with the position(s) for which they hold qualification (i.e., Air Weapons Officer (AWO)/WD, AST/ST, Interface Control Officer (ICO)/Interface Control Technician (ICT)). Examiners who hold supervisory mission crew position qualifications (e.g., Senior Director (SD), Air Surveillance Officer (ASO), ICO) may evaluate the associated duty positions (i.e., SD: AWO/WD, ASO: AST, ICO: ICT).

1.6.3. Prior to Evaluation. The SEE explains the purpose of the evaluation and how it will be conducted. The examinee accomplishes all mission planning appropriate for the type of evaluation.

1.6.4. During Evaluation. The SEE evaluate the examinee's performance for each graded area and note discrepancies when deviations from prescribed performance criteria occur during the evaluation.

1.6.5. Post Evaluation. The SEE compares the examinee's performance with the grading criteria and assigns an appropriate grade for each area. The SEE considers cumulative momentary deviations. The judgment of the SEE is the determining factor in assigning an overall grade for the examinee's performance. The SEE thoroughly critiques all aspects of the evaluation. During this critique, the SEE reviews the examinee's overall rating, specific deviations, area grades assigned, and any additional training which the examinee is required to complete. SEE will debrief all initial qualification or initial instructor evaluations resulting in Exceptionally Qualified (EQ), Qualified 2 (Q2), or Qualified 3 (Q3) with the examinee's squadron CC or operations officer (or designated representative), and flight CC (or designated representative). **(T-3)**

1.6.6. Academic Examination. The academic examination is the master question file (MQF) written examination. The SEE will administer the academic examination in accordance with AFI 13-1, *Ground Command and Control Systems Standardization/Evaluation Program—Organization and Administration*, Volume 2. **(T-3)** For initial evaluations, academic examinations are completed prior to any positional portions of the evaluation unless waived

by the unit CC on a case-by-case basis. For requalification evaluations (RQE) and periodic evaluations the written examination is completed at the discretion of the Chief, Stan/Eval.

1.6.6.1. The written examination for a QUAL/MSN evaluation will consist of 70 questions from the MAJCOM MQF, 15 questions from the unit MSN MQF, and 15 questions from the local procedures master question file (LPMQF). (T-3)

1.6.6.2. INIT MSN examinations may be waived by the unit CC if the evaluation was combined with the INIT QUAL evaluation.

1.7. SEE Objectivity Evaluations. Guidance on SEE Objectivity Evaluations is provided in AFI 13-1 STAN/EVAL Vol 2, paragraph 5.2.5.2 after initial selection as a SEE and at the discretion and direction of the unit CC thereafter.

1.8. Grading Guidance. Rating guidance for examiners, contained in AFI 13-1 STAN/EVAL Vol 2, paragraph 5.3., and the evaluation criteria in this publication are for conducting all positional evaluations. Use of these criteria ensures standard and objective evaluations are administered to crewmembers. SEEs and crewmembers will be thoroughly familiar with the prescribed grading criteria in this publication. (T-3)

1.8.1. A three-level grading system (i.e., Q, Q-, or U) will be used for all areas except those designated as CRITICAL, in which case a two-level system (i.e., Q or U) will be used (T-2).

1.8.2. An overall rating of “Unqualified” could result from an unqualified rating of a single critical or multiple noncritical areas.

1.8.3. All area ratings are based on the three-level rating system (i.e., Q, Q-, or U) described in [paragraph 1.8.1](#) and the criteria listed in the individual chapters or areas. (T-2)

1.9. Required Evaluation Areas. Required evaluation areas are defined as all areas (and associated sub-areas) identified in this document. The examiner evaluates the examinee's performance in all required areas. When a required area cannot be evaluated during live fly operations because of equipment malfunctions, weather conditions, operational requirements, or lack of adequate operating airspace, the area may be graded using simulation or a verbal evaluation.

1.9.1. Examiners make every effort to evaluate all required areas during the live fly portion before resorting to this alternative. If an alternate evaluation method is used, the examiner will document the method under the mission description paragraph in the remarks section of the AF Form 8, *Certification of Aircrew Qualification*, in accordance with AFI 13-1 STAN/EVAL Vol 2 (T-2)

1.9.2. Evaluation tasks are shown in the appropriate evaluation area, along with the rating scale for each task. Each area has a three-level (i.e., Q, Q-, or U) grading system with the exception of “CRITICAL” areas. The overall area grade will reflect the majority of the ratings assessed for the examinee's achievement of tasked sub-areas. (T-3)

1.9.2.1. Q. A “Q” is the desired level of performance. This grade indicates the examinee demonstrates a satisfactory knowledge of all required information, performs mission duties within the prescribed tolerances, and accomplishes the assigned mission.

1.9.2.2. Q-. A “Q-” indicates the examinee is qualified to perform the assigned area tasks without supervision, but requires a written debriefed comment or additional training

unless, in the judgment of the examiner, it would not constructively improve the examinee's performance. Deviations from established standards must not exceed the prescribed "Q-" tolerances or jeopardize flight safety. **(T-2)**

1.9.2.3. U. Assign a "U" area grade for any performance outside allowable parameters and for deviations from prescribed procedures or tolerances that adversely affect mission accomplishment or compromise flight safety. An examinee receiving an area grade of "U" requires additional training.

1.9.2.4. Critical Areas. Critical grading areas have been established for evaluations. Critical areas are defined as events that require adequate accomplishment by the examinee in order 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.

1.10. Simulation Evaluations. Simulation may be used to administer any portion of a positional evaluation not requiring a specific live scenario. Unit SEEs will identify existing simulation scenarios that 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 of simulation evaluations. **(T-3)** The SEE's judgment will be the determining factor in the effective use of simulation. **(T-3)**

Chapter 2

INSTRUCTOR QUALIFICATION EVALUATION

2.1. General.

2.1.1. This chapter contains the tasks and associated criteria for an instructor qualification evaluation. All crewmembers selected for instructor duty are evaluated to determine judgment, technical knowledge, instructor ability (including error analysis of student activity), and use of grading documents, as well as proficiency in their duty position.

2.1.2. To be designated as an instructor, a crewmember must successfully complete an evaluation. **(T-3)** Subsequent instructor evaluations are conducted concurrent with the instructor's recurring duty position evaluations.

2.2. Evaluation Objective. Instructors must demonstrate proficiency by instructing a student (or qualified individual acting as a student). **(T-3)** Examinees may be required to present verbal explanations of equipment operations, procedures, and techniques pertinent to their crew position duties and responsibilities.

Table 2.1. Instructor Qualification Areas.

Area	Title
1	Instructional Ability
2	Briefings/Critique
3	Demonstration and Performance

2.3. Area 1 – Instructional Ability.

2.3.1. Q. Demonstrated ability to communicate effectively. Provided appropriate corrective guidance when necessary. Planned ahead and made timely inputs and directive guidance to prevent mission degradations.

2.3.2. Q-. Demonstrated difficulty in communicating with the student. Provided untimely or inappropriate corrective guidance in minor areas or managed time poorly. Had difficulty planning ahead and providing inputs to prevent mission degradation. These discrepancies did not adversely affect safety or mission accomplishment, or adversely affect student progress.

2.3.3. U. Failed to effectively communicate with the student. Did not provide corrective guidance where necessary. Failed to plan ahead or anticipate student problems. Deviations adversely affected safety or mission accomplishment, or adversely affected student progress.

2.4. Area 2 – Briefings and Critiques.

2.4.1. Q. Briefings were well organized, accurate, and thorough. Reviewed student's level of training and defined mission events to be performed. Displayed ability during the critique to reconstruct the flight, offer mission analysis, and provide corrective guidance where appropriate. Completed all training documentation in accordance with prescribed directives. Training syllabi grades accurately reflected student performance relative to standard. Provided complete and comprehensive comments on training documentation. Thoroughly debriefed student on objectives and key aspects of the mission through reconstruction as

needed. Evaluated student performance and discussed appropriate techniques, highlighted strengths and weaknesses with special emphasis on areas for improvement.

2.4.2. Q-. Briefings had minor errors or omissions. Reviewed student's training folder or past performance with minor errors or omissions. Student critique had minor errors or omissions or provided an incomplete mission analysis. Training syllabi grades inaccurately reflected performance of student. Comments in training documentation had minor errors or omissions. Strengths and weaknesses were incorrectly identified. Provided incomplete comments on training documentation. Debriefed student on objectives and key aspects of the mission with minor errors or omissions. Minor discrepancies did not affect safety or adversely affect student progress. Minor errors or omissions in briefings, critique and/or training documents did not affect student progress.

2.4.3. U. Briefings were marginal or nonexistent. Did not review student's training folder or past performance. Failed to adequately critique student or provide complete mission analysis. Training syllabi grades did not reflect actual performance of student. Comments in training documentation were incomplete. Failed to identify strengths and weaknesses. Overlooked or omitted major discrepancies in the documentation. Incomplete or nonexistent pre-briefing of student's next mission.

2.5. Area 3 – Demonstration and Performance.

2.5.1. Q. Effectively demonstrated procedures and/or techniques during mission planning or mission execution, making clear distinctions between them. Demonstrated thorough knowledge of mission systems, procedures, and all applicable publications and regulations. Thoroughly explained the task. Correctly demonstrated the task. Accurately observed, supervised and evaluated the student's performance.

2.5.2. Q-. Demonstration of procedures and/or techniques not always effective. Did not always distinguish between procedures and techniques. Minor discrepancies in knowledge of mission systems, procedures, and/or applicable publications and regulations. Minor discrepancies did not affect safety or adversely affect student progress.

2.5.3. U. Failed to demonstrate correct procedures and/or techniques. Did not or could not distinguish between procedures and techniques. Insufficient knowledge of mission systems, procedures, and/or applicable publications and regulations. These deviations could affect safety or adversely affect student progress.

Chapter 3

MISSION CREW COMMANDER (MCC) QUALIFICATION EVALUATION

3.1. General.

3.1.1. This chapter contains the criteria specifying the tasks required of a qualified MCC. Evaluation requirements are outlined in [Table 3.1](#) for MCC and instructor MCC positions.

3.1.2. The MCC must be evaluated during a live, virtual, or constructive exercise as defined in AFI 13-1 STAN/EVAL Vol 2. **(T-3)**

3.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all MCC duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas will be rated Q or U. **(T-2)**

Table 3.1. MCC Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	N/A
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	
13	Weather Information	
14	Rules of Engagement (ROE)	Critical
15	Air Picture	
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures (CONUS)	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	
21	Mission Execution	Critical
22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	
25	Aircraft Operations	
26	Safety of Flight	Critical
27	Airspace Management/Air Traffic Control (ATC) Coordination	N/A

28	Continuum of Control	N/A
Instructor only Areas (Only required for instructor qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

3.3. Area 1 – Mission Planning.

3.3.1. Q. Conducted mission planning, accounted for known mission capabilities, requirements, enemy order of battle (EOB), limitations, and approved operating procedures in accordance with directives.

3.3.2. Q-. Conducted mission planning; accounted for known mission capabilities, requirements, EOB, limitations, and approved operating procedures in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.3.3. U. Failed to conduct mission planning, account for known mission capabilities, requirements, EOB, limitations, and approved operating procedures in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.4. Area 2 – Briefings.

3.4.1. Q. Supervised, conducted or attended briefings and extracted or provided information consistent to mission accomplishment and safety in accordance with directives.

3.4.2. Q-. Supervised, conducted or attended briefings, and extracted or provided information consistent to mission accomplishment and safety in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.4.3. U. Failed to supervise, conduct, or attend briefings and extract or provide information consistent to mission accomplishment and safety in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

3.5.1. Q. Configured, manipulated, controlled and interpreted displays. Utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives and reported outages.

3.5.2. Q-. Configured, manipulated, controlled and interpreted displays. Utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives and reported outages. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.5.3. U. Failed to configure, manipulate, control and interpret displays. Failed to utilize mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives and report outages. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.6. Area 4 – Communication Selection and Use.

3.6.1. Q. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required.

3.6.2. Q-. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.6.3. U. Failed to select, monitor, and operate communications equipment in accordance with system manuals, mission tasking, and directives. Failed to ensure completion of communications checks and report outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

3.7.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

3.7.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.7.3. U. Failed to employ INFOSEC or maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.8. Area 6 – Communications Security.(COMSEC) (CRITICAL)

3.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

3.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

3.9. Area 7 – Authentication Procedures. Not Applicable (N/A)**3.10. Area 8 – Radio/Telephone (R/T) Procedures.**

3.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

3.10.2. Q-. Errors or omissions in R/T procedures did not adversely affect mission accomplishment or safety.

3.10.3. U. Failed to employ R/T procedures in accordance with directives and local standard operating procedures. Errors or omissions jeopardized mission accomplishment or safety.

3.11. Area 9 – Coordination.

3.11.1. Q. Coordinated and reported all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives.

3.11.2. Q-. Coordinated and reported all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.11.3. U. Failed to coordinate and report all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.12. Area 10 – Ground Safety. (CRITICAL)

3.12.1. Q. Knew and or executed proper evacuation procedures. Knew the location and was familiar with the utilization of ground safety equipment.

3.12.2. U. Failed to know or execute proper evacuation procedures. Did not know the location and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.13. Area 11 – Checklists.

3.13.1. Q. Utilized positional checklist to perform tasks in accordance with directives.

3.13.2. Q-. Utilized positional checklist to perform tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.13.3. U. Failed to utilize positional checklist to perform tasks in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.14. Area 12 – Sensors.

3.14.1. Q. Recognized and reported degraded sensor performance. Demonstrated knowledge of theoretical radar configurations and capabilities.

3.14.2. Q-. Recognized and reported degraded sensor performance. Demonstrated knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.14.3. U. Failed to recognize and report degraded sensor performance. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.15. Area 13 – Weather Information.

3.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

3.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.16. Area 14 – Rules of Engagement (ROE).(CRITICAL)

3.16.1. Q. Applied ROE, used hostile act or intent criteria, and complied with appropriate levels of authority in accordance with directives.

3.16.2. U. Failed to apply ROE, failed to use hostile act or intent criteria, or failed to comply with appropriate levels of authority in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.17. Area 15 – Air Picture.

3.17.1. Q. Supervised maintenance of current air picture to include recognition of Electronic Attack/Electronic Protection (EA/EP). Supervised actions to ensure an accurate and identifiable air picture in accordance with directives.

3.17.2. Q-. Supervised maintenance of current air picture to include recognition of EA/EP. Supervised actions to ensure an accurate and identifiable air picture in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.17.3. U. Failed to supervise maintenance of current air picture to include recognition of EA/EP. Failed to supervise actions to ensure accurate and identifiable air picture in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

3.18.1. Q. Recognized the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures.

3.18.2. Q-. Recognized the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.18.3. U. Failed to recognize the presence of electronic or mechanical jamming or interference. Committed errors that jeopardized mission accomplishment or safety.

3.19. Area 17 – External Command and Control (C2) Assets.

3.19.1. Q. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, in accordance with directives.

3.19.2. Q-. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.19.3. U. Failed to direct, control, supervise, or assist with the employment of assigned C2 and sensor assets, in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.20. Area 18 – Expansion Procedures (Continental United States [CONUS]).

3.20.1. Q. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives.

3.20.2. Q-. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.20.3. U. Failed to supervise, control, or assist with expansion and expansion recovery procedures as required in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

3.21.1. Q. Recognized aircraft emergencies, implemented notification and recovery procedures, supervised emergency aircraft actions, and conducted PR operations in accordance with directives.

3.21.2. Q-. Recognized aircraft emergencies, implemented notification and recovery procedures, supervised emergency aircraft actions, and conducted PR operations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.21.3. U. Failed to recognize aircraft emergency situations, implement notification and recovery procedures, supervise emergency aircraft actions, and conduct PR operations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.22. Area 20 – Battle Management.

3.22.1. Q. Executed or assisted with special instructions (SPINS), operations orders (OPORDs), and contingency plans (CONPLANs) in accordance with applicable directives. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment.

3.22.2. Q-. Executed or assisted with SPINS, OPORDs and CONPLANs in accordance with applicable directives. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.22.3. U. Failed to execute or assist with SPINS, OPORDs and CONPLANs in accordance with applicable directives. Failed to supervise, control, or assist with employment of resources within the limitations and capabilities of assigned equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.23. Area 21 – Mission Execution.(CRITICAL)

3.23.1. Q. Executed the assigned mission and/or provided assistance in accordance with directives.

3.23.2. U. Failed to execute the assigned mission and/or provide assistance in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.24. Area 22 – Reporting and Documentation Procedures.

3.24.1. Q. Reported and documented all required items in accordance with directives.

3.24.2. Q-. Reported and documented all required items in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.24.3. U. Failed to report or document all required items in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.25. Area 23 – Positional Changeover and Debriefing.

3.25.1. Q. Conducted changeover and/or debriefing in accordance with directives.

3.25.2. Q-. Conducted changeover and/or debriefing in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.25.3. U. Failed to conduct changeover or debriefing in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.26. Area 24 – Identification (ID) and Safe Passage Procedures.

3.26.1. Q. Supervised ID of all tracks within the assigned area of operations (AO) and the employment of safe passage procedures in accordance with directives.

3.26.2. Q-. Supervised ID of all tracks within the assigned AO and the employment of safe passage procedures in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.26.3. U. Failed to supervise ID of all tracks within the assigned AO or the employment of safe passage procedures in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.27. Area 25 – Aircraft Operations.

3.27.1. Q. Supervised, monitored, recommended, and/or assisted with aircraft generation (to include commit action as required), dispersal, and recovery. Ensured allocation of resources to cope with tactical situations in accordance with directives.

3.27.2. Q-. Supervised, monitored, recommended, and/or assisted with aircraft generation (to include commit action as required), dispersal, and recovery. Ensured allocation of resources to cope with tactical situations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

3.27.3. U. Failed to supervise, monitor, recommend, and/or assist with aircraft generation (to include commit action as required), dispersal, or recovery. Failed to ensure allocation of resources to cope with tactical situations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.28. Area 26 – Safety of Flight. (CRITICAL)

3.28.1. Q. Ensured safety of flight in accordance with directives.

3.28.2. U. Failed to ensure safety of flight in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

3.29. Area 27 – Airspace Management/Air Traffic Control (ATC) Coordination. N/A

3.30. Area 28 – Continuum of Control. N/A

3.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

3.31.1. Area 29 – Instructional Ability.

3.31.2. Area 30 – Briefings and Critiques.

3.31.3. Area 31 – Demonstration and Performance.

Chapter 4

DIRECTOR QUALIFICATION EVALUATION

4.1. General.

4.1.1. This chapter contains the criteria specifying the tasks required of a qualified SD. Evaluation requirements are outlined in [Table 4.1](#) for SD and instructor SD positions. The SD evaluation will consist of the following positional activities:

4.1.2. The SD evaluation will include performance during alert operations or a live, virtual, or constructive exercise (in accordance with AFI 13-1 STAN/EVAL Vol 2); SDs must supervise a minimum of two control teams. **(T-3)**

4.1.3. The examinee controls air-to-air events (Air Combat Training (ACT), Dissimilar Air Combat Training (DACT), Tactical Intercept (TI)), as briefed by the aircrew. **(T-3)** SEEs make the determination as to whether briefed and conducted control activities fulfill control requirements.

4.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all SD duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 4.1. SD Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	
13	Weather Information	
14	Rules of Engagement (ROE)	Critical
15	Air Picture	
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures (CONUS)	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	
21	Mission Execution	Critical

22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	
25	Aircraft Operations	
26	Safety of Flight	Critical
27	Airspace Management/Air Traffic Control (ATC) Coordination	
28	Continuum of Control	
Instructor only Areas (Only required for instructor qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

4.3. Area 1 – Mission Planning.

4.3.1. Q. Conducted mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Checked factors applicable to the mission (i.e. letters of agreement (LOA), SPINS, ROE, air tasking order (ATO), lessons learned, training requirements, employment capabilities, weather (WX), EOB and daily flying schedule). Read and initialed all items in applicable read files.

4.3.2. Q-. Conducted mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Checked factors applicable to the mission (e.g., LOA, SPINS, ROE, ATO, lessons learned, training requirements, employment capabilities, weather, EOB, and daily flying schedule). Read and initialed items in applicable read files. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.3.3. U. Failed to conduct mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Failed to check factors applicable to the mission (e.g., LOA, SPINS, ROE, ATO, lessons learned, training requirements, employment capabilities, weather, EOB, and daily flying schedule). Failed to read and initial items in applicable read files. Committed errors or omissions that could jeopardize mission accomplishment or safety.

4.4. Area 2 – Briefings.

4.4.1. Q. Attended required briefings and extracted or provided necessary information. Conducted briefings in an organized, logical sequence in accordance with applicable directives. Ensured the weapons team was briefed on applicable aspects of the weapons mission. Participated in and extracted pertinent information from aircrew briefing(s) in accordance with directives.

4.4.2. Q-. Attended required briefings and extracted or provided necessary information. Conducted briefings in an organized, logical sequence in accordance with applicable directives. Ensured the weapons team was briefed on applicable aspects of the weapons mission. Participated in and extracted pertinent information from aircrew briefing(s) in

accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.4.3. U. Failed to attend required briefings and extract/provide necessary information. Failed to conduct briefings in an organized, logical sequence in accordance with applicable directives. Failed to ensure the weapons team was briefed on applicable aspects of the weapons mission. Failed to participate in and extract pertinent information from aircrew briefing(s) in accordance with directives. Committed errors or omissions that could negatively affect mission accomplishment or safety.

4.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

4.5.1. Q. Configured, manipulated, controlled, interpreted displays, and report outages as required. Updated/utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives.

4.5.2. Q-. Configured, manipulated, controlled, interpreted displays, and report outages as required. Updated/utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.5.3. U. Failed to configure, manipulate, control, interpret displays, and report outages as required. Failed to update/utilize mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives. Committed errors or omissions that could adversely affect mission accomplishment or safety.

4.6. Area 4 – Communication Selection and Use.

4.6.1. Q. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Reported outages as required.

4.6.2. Q-. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Reported outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.6.3. U. Failed to select, monitor, and operate communications equipment in accordance with system manuals, mission tasking, and directives. Failed to report outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

4.7.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

4.7.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.7.3. U. Failed to employ INFOSEC or maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.8. Area 6 – COMSEC.(CRITICAL)

4.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

4.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

4.9. Area 7 – Authentication Procedures.

4.9.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

4.9.3. U. Committed errors or omissions that jeopardized mission accomplishment.

4.10. Area 8 – Radio/Telephone (R/T) Procedures.

4.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

4.10.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.10.3. U. Failed to employ R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.11. Area 9 – Coordination.

4.11.1. Q. Coordinated and reported requirements, mission changes, equipment discrepancies, and limitations in accordance with directives.

4.11.2. Q-. Coordinated and reported requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.11.3. U. Failed to coordinate and report requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.12. Area 10 – Ground Safety.(CRITICAL)

4.12.1. Q. Knew or executed proper evacuation procedures. Knew the location and is familiar with the utilization of ground safety equipment.

4.12.2. U. Failed to know or execute proper evacuation procedures. Did not know the location and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.13. Area 11 – Checklists.

4.13.1. Q. Utilized positional checklist to perform tasks in accordance with directives.

4.13.2. Q-. Utilized positional checklist to perform tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.13.3. U. Failed to utilize positional checklist to perform tasks in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.14. Area 12 – Sensors.

4.14.1. Q. Recognized and reported degraded sensor performance. Coordinated sensor requirements to optimize presentation for mission accomplishment. Understood impact of major sensor changes on the mission. Demonstrated knowledge of theoretical radar configurations and capabilities.

4.14.2. Q-. Recognized and reported degraded sensor performance. Coordinated sensor requirements to optimize presentation for mission accomplishment. Understood impact of major sensor changes on the mission. Demonstrated knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.14.3. U. Failed to recognize and report degraded sensor performance. Failed to coordinate sensor requirements to optimize presentation for mission accomplishment. Failed to understand the impact of major sensor changes on the mission. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.15. Area 13 – Weather Information.

4.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

4.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.16. Area 14 – Rules of Engagement (ROE). (CRITICAL)

4.16.1. Q. Applied ROE, used hostile act or intent criteria, and complied with appropriate levels of authority in accordance with directives.

4.16.2. U. Failed to apply ROE, use hostile act or intent criteria, or comply with appropriate levels of authority in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.17. Area 15 – Air Picture.

4.17.1. Q. Maintained current weapons air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives.

4.17.2. Q-. Maintained current weapons air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.17.3. U. Failed to maintain current weapons air picture or take actions to ensure an accurate and identifiable air picture in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

4.18.1. Q. Recognized and reported the presence of electronic or mechanical jamming or interference.

4.18.2. Q-. Recognized and reported the presence of electronic or mechanical jamming or interference. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.18.3. U. Failed to recognize and report the presence of electronic or mechanical jamming or interference. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.19. Area 17 – External Command and Control Assets.

4.19.1. Q. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets in accordance with directives.

4.19.2. Q-. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.19.3. U. Failed to direct, control, supervise, or assist with the employment of assigned C2 and sensor assets in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.20. Area 18 – Expansion Procedures (CONUS).

4.20.1. Q. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives.

4.20.2. Q-. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.20.3. U. Failed to supervise, control, or assist with expansion and expansion recovery procedures as required in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

4.21.1. Q. Recognized emergency aircraft situations, implemented notification and recovery procedures, supervised emergency aircraft actions, and conducted PR operations in accordance with directives.

4.21.2. Q-. Recognized emergency aircraft situations, implemented notification and recovery procedures, supervised emergency aircraft actions, and conducted PR operations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.21.3. U. Failed to recognize emergency aircraft situations, implement notification and recovery procedures, supervise emergency aircraft actions, or conduct PR operations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.22. Area 20 – Battle Management.

4.22.1. Q. Developed and implemented the weapons team plan of execution. Contracted with other sections of the crew and external agencies to execute an effective plan. Led the weapons team in tactical employment of assigned aircraft to successfully accomplish mission tasking. Directed or ensured crewmembers select proper tactics based on aircraft capabilities, the threat, ROE, CONPLAN, SPINS, and/or mission requirements in accordance with applicable directives.

4.22.2. Q-. Developed and implemented the weapons team plan of execution. Contracted with other sections of the crew and external agencies to execute an effective plan. Led the weapons team in tactical employment of assigned aircraft to successfully accomplish mission tasking. Directed or ensured crewmembers select proper tactics based on aircraft capabilities, the threat, ROE, CONPLAN, SPINS, and/or mission requirements in accordance with applicable directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.22.3. U. Failed to develop and implement the weapons team plan of execution. Failed to contract with other sections of the crew and external agencies to execute an effective plan. Failed to lead the weapons team in tactical employment of assigned aircraft to successfully accomplish mission tasking. Failed to direct or ensure crewmembers select proper tactics based on aircraft capabilities, the threat, ROE, CONPLAN, SPINS, and/or mission requirements in accordance with applicable directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.23. Area 21 – Mission Execution. (CRITICAL)

4.23.1. Q. Executed the assigned mission and/or provided assistance in accordance with directives. Conducted the mission with a sense of understanding and comprehension. Decisions resulted in mission accomplishment and effectively used resources to achieve mission objectives.

4.23.2. U. Failed to execute the assigned mission or provide assistance in accordance with directives. Failed to conduct the mission with a sense of understanding and comprehension. Failed to make decisions that result in mission accomplishment and failed to use resources effectively to achieve mission objectives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.24. Area 22 – Reporting and Documentation Procedures.

4.24.1. Q. Reported and documented required items in accordance with directives.

4.24.2. Q-. Reported and documented required items in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.24.3. U. Failed to report and document required items in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.25. Area 23 – Positional Changeover and Debriefing.

4.25.1. Q. Briefed the relieving operator on the current operational situation in accordance with directives. Prepared and participated in mission objectives-based weapons section and crew debriefings. Prepared for and participated in aircrew debriefings in accordance with directives.

4.25.2. Q-. Briefed the relieving operator on the current operational situation in accordance with directives. Prepared and participated in mission objectives-based weapons section and crew debriefings. Prepared for and participated in aircrew debriefings in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.25.3. U. Failed to brief the relieving operator on the current operational situation in accordance with directives. Failed to prepare and participate in mission objectives-based weapons section and crew debriefings. Failed to prepare for and participate in aircrew debriefings in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.26. Area 24 – ID and Safe Passage Procedures.

4.26.1. Q. Ensured appropriate ID of assigned assets. Accomplished or directed unknown rider and/or unknown cowboy procedures (N/A PACAF units) in accordance with applicable authenticators.

4.26.2. Q-. Ensured appropriate ID of assigned assets. Accomplished or directed unknown rider and/or unknown cowboy procedures (N/A PACAF units) in accordance with applicable authenticators. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.26.3. U. Failed to ensure appropriate ID of assigned assets. Failed to accomplish or direct unknown rider and/or unknown cowboy procedures (N/A PACAF units) in accordance with applicable authenticators. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.27. Area 25 – Aircraft Operations.

4.27.1. Q. Supervised, monitored, recommended, and/or assisted with aircraft generation (to include commit action as required), dispersal, and recovery. Ensured allocation of resources to cope with tactical situations in accordance with directives.

4.27.2. Q-. Supervised, monitored, recommended, and/or assisted with aircraft generation (to include commit action as required), dispersal, and recovery. Ensured allocation of resources to cope with tactical situations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.27.3. U. Failed to supervise, monitor, recommend, and/or assist with aircraft generation (to include commit action as required), dispersal, and recovery. Failed to ensure allocation of resources to cope with tactical situations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.28. Area 26 – Safety of Flight. (CRITICAL)

4.28.1. Q. Ensured safety of flight in accordance with directives.

4.28.2. U. Failed to ensure safety of flight in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.29. Area 27 – Airspace Management and Air Traffic Control (ATC) Coordination.

4.29.1. Q. Coordinated and/or performed actions in accordance with directives.

4.29.2. Q-. Coordinated and/or performed actions in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.29.3. U. Failed to coordinate and/or perform actions in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.30. Area 28 – Continuum of Control.

4.30.1. Q. Supervised and directed fighters using radar and identification friend or foe/selective identification feature (IFF/SIF) presentations. Used the continuum of control to position assets to accomplish missions consistent with briefed objectives, AFI 11-214, *Air Operations Rules and Procedures*, AFTTP 3-1, *General Planning*, aircraft capabilities, ROE, threat, enemy order of battle, and/or leadership direction.

4.30.2. Q-. Supervised and directed fighters using radar and IFF/SIF presentations. Used the continuum of control to position assets to accomplish missions consistent with briefed objectives, AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or leadership direction. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

4.30.3. U. Failed to supervise and direct fighters using radar and IFF/SIF presentations. Failed to use the continuum of control to accomplish missions consistent with briefed objectives, AFI 11-214 and AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or leadership direction. Committed errors or omissions that jeopardized mission accomplishment or safety.

4.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

4.31.1. Area 29 – Instructional Ability.

4.31.2. Area 30 – Briefings and Critique.

4.31.3. Area 31 – Demonstration and Performance.

Chapter 5

WEAPONS QUALIFICATION EVALUATION

5.1. General.

5.1.1. This chapter contains the criteria specifying the tasks required of a qualified AWO/WD. Evaluation requirements are outlined in **Table 5.1** for AWO/WD and instructor AWO, instructor WD positions. The AWO/WD evaluation consists of the following three positional activities:

5.1.2. The examinee will control air-to-air events (ACT/DACT/TI), as briefed by the aircrew. **(T-2)** SEEs make the determination as to whether briefed and conducted control activities fulfill control requirements.

5.1.3. The examinee will control an air defense scenario to a minimum of two separate interceptors/elements simultaneously. **(T-3)**

5.1.4. The examinee will provide tanker management and/or controls air refueling operations to at least two separate receivers/elements simultaneously. **(T-3)**

5.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all AWO/WD duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 5.1. Weapons Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	
13	Weather Information	
14	Rules of Engagement (ROE)	Critical
15	Air Picture	
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures (CONUS)	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	N/A

21	Mission Execution	Critical
22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	
25	Aircraft Operations	
26	Safety of Flight	Critical
27	Airspace Management/Air Traffic Control (ATC) Coordination	
28	Continuum of Control	
Instructor only Areas (Only required for instructor qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

5.3. Area 1 – Mission Planning.

5.3.1. Q. Conducted mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Checked factors applicable to the mission (i.e., LOAs, SPINS, ROE, ATO, lessons learned, training requirements, employment capabilities, weather, EOB and daily flying schedule). Read and initialed all items in applicable read files.

5.3.2. Q-. Conducted mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Checked factors applicable to the mission (i.e., LOAs, SPINS, ROE, ATO, lessons learned, training requirements, employment capabilities, WX, EOB and daily flying schedule). Read and initialed items in applicable read files. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.3.3. U. Failed to conduct mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Failed to check factors applicable to the mission (i.e., LOAs, SPINS, ROE, ATO, lessons learned, training requirements, employment capabilities, WX, EOB and daily flying schedule). Failed to read and initial items in applicable read files. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.4. Area 2 – Briefings.

5.4.1. Q. Attended required briefings and extracted or provided necessary information. Conducted briefings in an organized, logical sequence in accordance with applicable directives. Ensured the weapons team was briefed on applicable aspects of the weapons mission. Participated in and extracts pertinent information from aircrew briefing(s) in accordance with directives.

5.4.2. Q-. Attended required briefings and extracted or provided necessary information. Conducted briefings in an organized, logical sequence in accordance with applicable directives. Ensured the weapons team was briefed on applicable aspects of the weapons mission. Participated in and extracts pertinent information from aircrew briefing(s) in

accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.4.3. U. Failed to attend required briefings and extract/provide necessary information. Failed to conduct briefings in an organized, logical sequence in accordance with applicable directives. Failed to ensure the weapons team was briefed on applicable aspects of the weapons mission. Failed to participate in and extract pertinent information from aircrew briefing(s) in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

5.5.1. Q. Configured, manipulated, controlled, interpreted displays and reported outages as required. Updated/utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives.

5.5.2. Q-. Configured, manipulated, controlled, interpreted displays and reported outages as required. Updated/utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.5.3. U. Failed to configure, manipulate, control, interpret displays and report outages as required. Failed to update/utilize mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.6. Area 4 – Communication Selection and Use.

5.6.1. Q. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Reported outages as required.

5.6.2. Q-. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Reported outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.6.3. U. Failed to select, monitor, and operate communications equipment in accordance with system manuals, mission tasking, and directives. Failed to report outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

5.7.1. Q. Employed INFOSEC and maintained OPSEC control in accordance with appropriate publications.

5.7.2. Q-. Employed INFOSEC and maintained OPSEC control in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.7.3. U. Failed to employ INFOSEC or maintain OPSEC control in accordance with appropriate publications. Committed errors or omissions that jeopardize INFOSEC/OPSEC.

5.8. Area 6 – COMSEC. (CRITICAL)

5.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

5.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

5.9. Area 7 – Authentication Procedures.

5.9.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

5.9.3. U. Committed errors or omissions that jeopardized mission accomplishment.

5.10. Area 8 – Radio/Telephone (R/T) Procedures.

5.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

5.10.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.10.3. U. Failed to employ R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.11. Area 9 – Coordination.

5.11.1. Q. Coordinated and reported requirements, mission changes, equipment discrepancies, and limitations in accordance with directives.

5.11.2. Q-. Coordinated and reported requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.11.3. U. Failed to coordinate and report requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.12. Area 10 – Ground Safety. (CRITICAL)

5.12.1. Q. Knew or executed proper evacuation procedures. Knew the location and is familiar with the utilization of ground safety equipment.

5.12.2. U. Failed to know or execute proper evacuation procedures. Did not know the location and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.13. Area 11 – Checklists.

5.13.1. Q. Utilized positional checklist to perform tasks in accordance with directives.

5.13.2. Q-. Utilized positional checklist to perform tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.13.3. U. Failed to utilize positional checklist to perform tasks in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.14. Area 12 – Sensors.

5.14.1. Q. Recognized and reported degraded sensor performance. Coordinated sensor requirements to optimize presentation for mission accomplishment. Understood impact of major sensor changes on the mission. Demonstrated knowledge of theoretical radar configurations and capabilities.

5.14.2. Q-. Recognized and reported degraded sensor performance. Coordinated sensor requirements to optimize presentation for mission accomplishment. Understood impact of major sensor changes on the mission. Demonstrated knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.14.3. U. Failed to recognize and report degraded sensor performance. Failed to coordinate sensor requirements to optimize presentation for mission accomplishment. Failed to understand the impact of major sensor changes on the mission. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.15. Area 13 – Weather Information.

5.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

5.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.16. Area 14 – Rules of Engagement (ROE). (CRITICAL)

5.16.1. Q. Applied ROE, used hostile act or intent criteria, and complied with appropriate levels of authority in accordance with directives.

5.16.2. U. Failed to apply ROE, failed to use hostile act or failed to intent criteria, or comply with appropriate levels of authority in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.17. Area 15 – Air Picture.

5.17.1. Q. Maintained current weapons air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives.

5.17.2. Q-. Maintained current weapons air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.17.3. U. Failed to maintain current weapons air picture or take actions to ensure an accurate and identifiable air picture in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

5.18.1. Q. Recognized and reported the presence of electronic or mechanical jamming or interference.

5.18.2. Q-. Recognized and reported the presence of electronic or mechanical jamming or interference. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.18.3. U. Failed to recognize and report the presence of electronic or mechanical jamming or interference. Committed errors or omissions that negatively affect the recognition and reporting of electronic attack/interference.

5.19. Area 17 – External Command and Control Assets.

5.19.1. Q. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets in accordance with directives.

5.19.2. Q-. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.19.3. U. Failed to direct, control, supervise, or assist with the employment of assigned C2 and sensor assets in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.20. Area 18 – Expansion Procedures (CONUS).

5.20.1. Q. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives.

5.20.2. Q-. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.20.3. U. Failed to supervise, control, or assist with expansion and expansion recovery procedures as required in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

5.21.1. Q. Recognized emergency aircraft situations, implements notification and recovery procedures, supervised emergency aircraft actions, and conducted PR operations in accordance with directives.

5.21.2. Q-. Recognized emergency aircraft situations, implements notification and recovery procedures, supervised emergency aircraft actions, and conducted PR operations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.21.3. U. Failed to recognize emergency aircraft situations, implement notification and recovery procedures, supervise emergency aircraft actions, or conduct PR operations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.22. Area 20 – Battle Management. N/A

5.23. Area 21 – Mission Execution. (CRITICAL)

5.23.1. Q. Executed the assigned mission and/or provided assistance in accordance with directives. Conducted the mission with a sense of understanding and comprehension. Decisions result in mission accomplishment and resources are effectively used to achieve mission objectives.

5.23.2. U. Failed to execute the assigned mission and/or provides assistance in accordance with directives. Failed to conduct the mission with a sense of understanding and comprehension. Failed to make decisions that result in mission accomplishment and failed to use resources effectively to achieve mission objectives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.24. Area 22 – Reporting and Documentation Procedures.

5.24.1. Q. Reported and documented required items in accordance with directives.

5.24.2. Q-. Reported and documented required items in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.24.3. U. Failed to report and document required items in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.25. Area 23 – Positional Changeover and Debriefing.

5.25.1. Q. Briefed the relieving operator on the current operational situation in accordance with directives. Prepared and participated in mission objectives-based weapons section and crew debriefings. Prepared for and participated in aircrew debriefings in accordance with directives.

5.25.2. Q-. Briefed the relieving operator on the current operational situation in accordance with directives. Prepared and participated in mission objectives-based weapons section and crew debriefings. Prepared for and participated in aircrew debriefings in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.25.3. U. Failed to brief the relieving operator on the current operational situation in accordance with directives. Failed to prepare and participate in mission objectives-based weapons section and crew debriefings. Failed to prepare for and participate in aircrew debriefings in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.26. Area 24 – ID and Safe Passage Procedures.

5.26.1. Q. Ensured appropriate ID of assigned assets. Accomplished or directed unknown rider and/or unknown cowboy procedures (N/A PACAF units) in accordance with applicable authenticators.

5.26.2. Q-. Ensured appropriate ID of assigned assets. Accomplished or directed unknown rider and/or unknown cowboy procedures (N/A PACAF units) in accordance with applicable authenticators. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.26.3. U. Failed to ensure appropriate ID of assigned assets. Failed to accomplish or direct unknown rider and/or unknown cowboy procedures (N/A PACAF units) in accordance with applicable authenticators. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.27. Area 25 – Aircraft Operations.

5.27.1. Q. Supervised, monitored, recommended, and/or assisted with aircraft generation (to include commit action as required), dispersal, and recovery. Ensured allocation of resources to cope with tactical situations in accordance with directives.

5.27.2. Q-. Supervised, monitored, recommended, and/or assisted with aircraft generation (to include commit action as required), dispersal, and recovery. Ensured allocation of resources to cope with tactical situations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.27.3. U. Failed to supervise, monitor, recommend, and/or assist with aircraft generation (to include commit action as required), dispersal, and recovery. Failed to ensure allocation of resources to cope with tactical situations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.28. Area 26 – Safety of Flight. (CRITICAL)

5.28.1. Q. Ensured safety of flight in accordance with directives.

5.28.2. U. Failed to ensure safety of flight in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.29. Area 27 – Airspace Management and Air Traffic Control (ATC) Coordination.

5.29.1. Q. Coordinated and/or performed actions in accordance with directives.

5.29.2. Q-. Coordinated and/or performed actions in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.29.3. U. Failed to coordinate and/or perform actions in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.30. Area 28 – Continuum of Control.

5.30.1. Q. Supervised and directed fighters using radar and IFF/SIF presentations. Used the continuum of control to position assets to accomplish missions consistent with briefed objectives, AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or leadership direction.

5.30.2. Q-. Supervised and directed fighters using radar and IFF/SIF presentations. Used the continuum of control to position assets to accomplish missions consistent with briefed objectives, AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or leadership direction. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

5.30.3. U. Failed to supervise/direct fighters using radar and IFF/SIF presentations. Failed to use the continuum of control to accomplish missions consistent with briefed objectives, AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or leadership direction. Committed errors or omissions that jeopardized mission accomplishment or safety.

5.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

5.31.1. Area 29 – Instructional Ability.

5.31.2. Area 30 – Briefings and Critiques.

5.31.3. Area 31 – Demonstration and Performance.

Chapter 6

AIR SURVEILLANCE OFFICER EVALUATION

6.1. General.

6.1.1. This chapter contains the criteria specifying the tasks required of a qualified ASO. Evaluation requirements are outlined in **Table 6.1** for ASO and instructor ASO positions.

6.1.2. The ASO evaluation must include performance during a live, virtual, or constructive exercise as defined in AFI 13-1 STAN/EVAL Vol 2. **(T-3)**

6.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all ASO duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 6.1. ASO Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	N/A
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	Critical
13	Weather Information	
14	Rules of Engagement (ROE)	
15	Air Picture	Critical
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures (CONUS)	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	
21	Mission Execution	Critical
22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	N/A
25	Aircraft Operations	N/A
26	Safety of Flight	N/A
27	Airspace Management/Air Traffic Control (ATC) Coordination	N/A

28	Continuum of Control	N/A
Instructor only Areas (Only required for instructor qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

6.3. Area 1 – Mission Planning.

6.3.1. Q. Conducted mission planning, accounted for known mission capabilities, requirements, EOB, limitations, and approved operating procedures in accordance with directives.

6.3.2. Q-. Conducted mission planning, accounted for known mission capabilities, requirements, EOB, limitations, and approved operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.3.3. U. Failed to conduct mission planning, account for known mission capabilities, requirements, EOB, limitations, and approved operating procedures. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.4. Area 2 – Briefings.

6.4.1. Q. Supervised, conducted and/or attended briefings and extracted or provided information consistent to mission accomplishment in accordance with directives.

6.4.2. Q-. Supervised, conducted and/or attended briefings and extracted or provided information consistent to mission accomplishment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.4.3. U. Failed to supervise, conduct and/or attend briefings and extract/provide information consistent to mission accomplishment. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

6.5.1. Q. Configured, manipulated, controlled, interpreted displays and responded to alerts. Updated/utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives and report outages.

6.5.2. Q-. Configured, manipulated, controlled, interpreted displays and responded to alerts. Updated/utilized mission auxiliary and other computer equipment to accomplish assigned tasks and reported outages. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.5.3. U. Failed to configure, manipulate, control, interpret displays or respond to alerts. Did not update/utilize mission/auxiliary and other computer equipment to accomplish assigned tasks and reported outages. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.6. Area 4 – Communications Selection and Use.

6.6.1. Q. Selected, monitored and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required.

6.6.2. Q-. Selected, monitored and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.6.3. U. Failed to select, monitor and operate communications equipment in accordance with system manuals, mission tasking, and directives. Did not ensure completion of communications checks and report outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

6.7.1. Q. Employed INFOSEC and ensured OPSEC controls are maintained in accordance with appropriate publications.

6.7.2. Q-. Employed INFOSEC and ensured OPSEC controls are maintained in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.7.3. U. Failed to employ INFOSEC and ensure OPSEC controls are maintained in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.8. Area 6 – COMSEC. (CRITICAL)

6.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

6.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

6.9. Area 7 – Authentication Procedures. N/A**6.10. Area 8 – Radio/Telephone (R/T) Procedures.**

6.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

6.10.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.10.3. U. Failed to employ R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.11. Area 9 – Coordination.

6.11.1. Q. Coordinated and reported all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives.

6.11.2. Q-. Coordinated and reported mission requirements, mission changes, equipment discrepancies, and limitations. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.11.3. U. Failed to coordinate and report requirements, mission changes, equipment discrepancies, and limitations. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.12. Area 10 – Ground Safety. (CRITICAL)

6.12.1. Q. Knew or executed proper evacuation procedures. Knew the location and is familiar with the utilization of ground safety equipment.

6.12.2. U. Failed to know or execute proper evacuation procedures. Did not know the location and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.13. Area 11 – Checklists.

6.13.1. Q. Utilized positional checklist to perform tasks in accordance with directives.

6.13.2. Q-. Utilized positional checklist to perform tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.13.3. U. Failed to utilize positional checklist to perform tasks. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.14. Area 12 – Sensors. (CRITICAL)

6.14.1. Q. Recognized and reported degraded sensor performance. Implemented sensor changes to optimize presentation based on equipment availability capabilities, limitations, and/or mission tasking in accordance with directives. Demonstrated knowledge of theoretical radar configurations and capabilities.

6.14.2. U. Failed to recognize and report degraded sensor performance. Unable to implement sensor changes to optimize presentation based on equipment availability capabilities, limitations, and/or mission tasking in accordance with directives. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.15. Area 13 – Weather Information.

6.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

6.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.16. Area 14 – Rules of Engagement (ROE).

6.16.1. Q. Demonstrated basic knowledge of the ROE with appropriate levels of authority in accordance with directives.

6.16.2. Q-. Demonstrated basic knowledge of the ROE with appropriate levels of authority. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.16.3. U. Failed to demonstrate basic knowledge of the ROE with appropriate levels of authority. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.17. Area 15 – Air Picture. (CRITICAL)

6.17.1. Q. Maintained current air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives. Detected, tracked, updated, and reported tracks. Monitored link operations and took action to ensure effective data exchange is achieved.

6.17.2. U. Failed to maintain current air picture and ensure an accurate and identifiable air picture in accordance with directives. Failed to monitor link operations to ensure effective data exchange. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

6.18.1. Q. Recognized and reported the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Took actions to correlate source of EA and applied EP in accordance with directives.

6.18.2. Q-. Recognized and reported the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Took actions to correlate source of EA and applied EP in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.18.3. U. Failed to recognize and report the presence of electronic or mechanical jamming or interference. Failed to implement notification and reporting procedures in accordance with directives. Failed to take action to correlate source of EA or EP as appropriate. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.19. Area 17 – External Command and Control Assets.

6.19.1. Q. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required, in accordance with directives.

6.19.2. Q-. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.19.3. U. Failed to direct, control, supervise, or assist with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.20. Area 18 – Expansion Procedures (CONUS).

6.20.1. Q. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives.

6.20.2. Q-. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.20.3. U. Failed to supervise, control, or assist with expansion and expansion recovery procedures as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

6.21.1. Q. Recognized emergency aircraft situations, implemented reporting procedures, monitored emergency aircraft actions, and conducted PR operations in accordance with directives.

6.21.2. Q-. Recognized emergency aircraft situations, implemented reporting procedures, monitored emergency aircraft actions, and conducted PR operations. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.21.3. U. Failed to recognize emergency aircraft situations, implement reporting procedures, monitor emergency aircraft actions, and conduct PR operations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.22. Area 20 – Battle Management.

6.22.1. Q. Executed or assisted with SPINS, OPORDs, and CONPLANs. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment in accordance with directives.

6.22.2. Q-. Executed or assisted with SPINS, OPORDs, and CONPLANs. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.22.3. U. Failed to execute or assist with SPINS, OPORDs, and CONPLANs. Did not supervise, control, or assist with employment of resources within the limitations and capabilities of assigned equipment with in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.23. Area 21 – Mission Execution.(CRITICAL)

6.23.1. Q. Executed the assigned mission in accordance with directives. Conducted the mission with a sense of understanding and comprehension. Decisions resulted in mission accomplishment and effectively used resources to achieve mission objectives.

6.23.2. U. Failed to execute the assigned mission in accordance with directives. Did not conduct the mission with a sense of understanding and comprehension. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.24. Area 22 – Reporting and Documentation Procedures.

6.24.1. Q. Reported and documented all required items to include radar outages and EA in accordance with directives.

6.24.2. Q-. Reported and documented all required items to include radar outages and EA. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.24.3. U. Failed to report and document all required items to include radar outages and EA in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.25. Area 23 – Positional Changeover and Debriefing.

6.25.1. Q. Conducted changeover and/or debriefing in accordance with directives.

6.25.2. Q-. Conducted changeover and/or debriefing. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

6.25.3. U. Failed to conduct changeover and/or debriefing. Committed errors or omissions that jeopardized mission accomplishment or safety.

6.26. Area 24 – Identification/Safe Passage. N/A**6.27. Area 25 – Aircraft Operations. N/A****6.28. Area 26 – Safety of Flight. N/A****6.29. Area 27 – Airspace Management/ATC Coordination. N/A****6.30. Area 28 – Continuum of Control. N/A**

6.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

6.31.1. Area 29 – Instructional Ability.

6.31.2. Area 30 – Briefings and Critiques.

6.31.3. Area 31 – Demonstration and Performance.

Chapter 7

AIR SURVEILLANCE TECHNICIAN QUALIFICATION EVALUATION

7.1. General.

7.1.1. This chapter contains the criteria specifying the tasks required of a Qualified Air Surveillance Technician (AST). Evaluation requirements are outlined in [Table 7.1](#) for AST and Instructor AST positions.

7.1.2. The AST evaluation must include performance as a Surveillance Technician (ST) during a live, virtual, or constructive exercise as defined in AFI 13-1 STAN/EVAL Vol 2. **(T-3)**

7.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all AST duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 7.1. Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	N/A
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	Critical
13	Weather Information	
14	Rules of Engagement (ROE)	
15	Air Picture	Critical
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures (CONUS)	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	
21	Mission Execution	Critical
22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	N/A
25	Aircraft Operations	N/A
26	Safety of Flight	N/A

27	Airspace Management/Air Traffic Control (ATC) Coordination	N/A
28	Continuum of Control	N/A
Instructor only Areas (Only required for instructor-qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

7.3. Area 1 – Mission Planning.

7.3.1. Q. Conducted mission planning, accounted for known mission capabilities, requirements, EOB, limitations, and approved operating procedures in accordance with directives.

7.3.2. Q-. Conducted mission planning, accounted for known mission capabilities, requirements, EOB, limitations, and approved operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.3.3. U. Failed to conduct mission planning, account for known mission capabilities, requirements, EOB, limitations, and approved operating procedures. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.4. Area 2 – Briefings.

7.4.1. Q. Supervised, conducted and/or attended briefings and extracted or provided information consistent to mission accomplishment in accordance with directives.

7.4.2. Q-. Supervised, conducted and/or attended briefings and extracted or provided information consistent to mission accomplishment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.4.3. U. Failed to supervise, conduct and/or attend briefings and extract/provide information consistent to mission accomplishment. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

7.5.1. Q. Configured, manipulated, controlled, interpreted displays and responded to alerts. Updated/utilized mission, auxiliary and other computer equipment to accomplish assigned tasks in accordance with directives and reported outages.

7.5.2. Q-. Configured, manipulated, controlled, interpreted displays and responded to alerts. Updated/utilized mission auxiliary and other computer equipment to accomplish assigned tasks and reported outages. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.5.3. U. Failed to configure, manipulate, control, interpret displays or respond to alerts. Failed to update/utilize mission/auxiliary and other computer equipment to accomplish assigned tasks and/or failed to report outages. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.6. Area 4 – Communication Selection and Use.

7.6.1. Q. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required.

7.6.2. Q-. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and report outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.6.3. U. Failed to select, monitor, and operate communications equipment in accordance with system manuals, mission tasking, and directives. Failed to ensure completion of communications checks and/or report outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

7.7.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

7.7.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.7.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.8. Area 6 – COMSEC. (CRITICAL)

7.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

7.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

7.9. Area 7 – Authentication Procedures. N/A**7.10. Area 8 – Radio/Telephone (R/T) Procedures.**

7.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

7.10.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.10.3. U. Failed to employ R/T procedures and or committed errors or omissions that jeopardized mission accomplishment or safety.

7.11. Area 9 – Coordination.

7.11.1. Q. Coordinated and reported all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives.

7.11.2. Q-. Coordinated and reported mission requirements, mission changes, equipment discrepancies, and limitations. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.11.3. U. Failed to coordinate and report requirements, mission changes, equipment discrepancies, and limitations. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.12. Area 10 – Ground Safety. (CRITICAL)

7.12.1. Q. Knew or executed proper evacuation procedures. Knew the location and is familiar with the utilization of ground safety equipment.

7.12.2. U. Failed to know or execute proper evacuation procedures. Did not know the location and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.13. Area 11 – Checklists.

7.13.1. Q. Utilized positional checklist to perform tasks in accordance with directives.

7.13.2. Q-. Utilized positional checklist to perform tasks. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.13.3. U. Failed to utilize positional checklist to perform tasks. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.14. Area 12 – Sensors. (CRITICAL)

7.14.1. Q. Recognized and reported degraded sensor performance. Implemented sensor changes to optimize presentation based on equipment availability, capabilities limitations, and/or mission tasking in accordance with directives. Demonstrated knowledge of theoretical radar configurations and capabilities.

7.14.2. U. Failed to recognize and report degraded sensor performance. Failed to implement sensor changes to optimize presentation based on equipment availability, capabilities, limitations, and/or mission tasking in accordance with directives. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.15. Area 13 – Weather Information.

7.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

7.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.16. Area 14 – Rules of Engagement (ROE).

7.16.1. Q. Demonstrated basic knowledge of the ROE with appropriate levels of authority in accordance with directives.

7.16.2. Q-. Demonstrated basic knowledge of the ROE with appropriate levels of authority. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.16.3. U. Failed to demonstrate basic knowledge of the ROE with appropriate levels of authority. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.17. Area 15 – Air Picture. (CRITICAL)

7.17.1. Q. Maintained current air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives. Detected, tracked, updated, and reported tracks. Monitored link operations and took action to ensure effective data exchange is achieved.

7.17.2. U. Failed to maintain current air picture and take actions to ensure an accurate and identifiable air picture in accordance with directives. Failed to detect, track, update, or report tracks. Failed to monitor link operations to ensure effective data exchange. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

7.18.1. Q. Recognized the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Took actions to correlate source of EA and applied EP in accordance with directives.

7.18.2. Q-. Recognized and reported the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Took actions to correlate source of EA and applied EP. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.18.3. U. Failed to recognize and report the presence of electronic or mechanical jamming or interference. Failed to implement notification and reporting procedures in accordance with directives. Failed to take actions to correlate source of EA or EP. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.19. Area 17 – External Command and Control Assets.

7.19.1. Q. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required, in accordance with directives.

7.19.2. Q-. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.19.3. U. Failed to direct, control, supervise, or assist with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.20. Area 18 – Expansion Procedures (CONUS).

7.20.1. Q. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives.

7.20.2. Q-. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.20.3. U. Failed to supervise, control, or assist with expansion and expansion recovery procedures as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

7.21.1. Q. Recognized emergency aircraft situations, implemented reporting procedures, monitored emergency aircraft actions, and conducted PR operations in accordance with directives.

7.21.2. Q-. Recognized emergency aircraft situations, implemented reporting procedures, monitored emergency aircraft actions, and conducted PR operations. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.21.3. U. Failed to recognize emergency aircraft situations, implement reporting procedures, monitor emergency aircraft actions, and conduct PR operations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.22. Area 20 – Battle Management.

7.22.1. Q. Executed or assisted with SPINS, OPORDs, and CONPLANs. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment in accordance with directives.

7.22.2. Q-. Executed or assisted with SPINS, OPORDs, and CONPLANs. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.22.3. U. Failed to execute or assist with SPINS, OPORDs, and CONPLANs. Did not supervise, control, or assist with employment of resources within the limitations and capabilities of assigned equipment with in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.23. Area 21 – Mission Execution. (CRITICAL)

7.23.1. Q. Executed the assigned mission in accordance with directives. Conducted the mission with a sense of understanding and comprehension. Decisions resulted in mission accomplishment; effectively used resources to achieve mission objectives.

7.23.2. U. Failed to execute the assigned mission in accordance with directives. Did not conduct the mission with a sense of understanding and comprehension. Decisions jeopardized mission accomplishment and ineffectively used resources to achieve mission objectives. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.24. Area 22 – Reporting and Documentation Procedures.

7.24.1. Q. Reported and documented all required items to include radar outages and EA in accordance with directives.

7.24.2. Q-. Reported and documented required items to include radar outages and EA in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.24.3. U. Failed to report and document all required items to include radar outages and EA in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

7.25. Area 23 – Positional Changeover and Debriefing.

7.25.1. Q. Conducted changeover and/or debriefing in accordance with directives.

7.25.2. Q-. Conducted changeover and/or debriefing. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

7.25.3. U. Failed to conduct changeover and/or debriefing, or briefings contained errors or omissions that jeopardized mission accomplishment or safety.

7.26. Area 24 - Identification/Safe Passage. N/A**7.27. Area 25 – Aircraft Operations. N/A****7.28. Area 25 – Safety of Flight. N/A****7.29. Area 27 – Airspace Management and Air Traffic Control (ATC) Coordination. N/A****7.30. Area 28 – Continuum of Control. N/A**

7.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

7.31.1. Area 29 – Instructional Ability.

7.31.2. Area 30 – Briefings and Critiques.

7.31.3. Area 31 – Demonstration and Performance.

Chapter 8

SURVEILLANCE TECHNICIAN QUALIFICATION EVALUATION

8.1. General.

8.1.1. This chapter contains the criteria specifying the tasks required of a Qualified Surveillance Technician (ST). Evaluation requirements are outlined in [Table 8.1](#) for ST and Instructor Surveillance Technician (IST) positions.

8.1.2. The ST must be evaluated during operations in a live, virtual, or constructive environment. **(T-3)**

8.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all ST duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 8.1. Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	N/A
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	
13	Weather Information	
14	Rules of Engagement (ROE)	Critical
15	Air Picture	Critical
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	
21	Mission Execution	Critical
22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	Critical
25	Aircraft Operations	N/A
26	Safety of Flight	N/A

27	Airspace Management/Air Traffic Control (ATC) Coordination	
28	Continuum of Control	N/A
Instructor only Areas (Only required for instructor qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

8.3. Area 1 – Mission Planning.

8.3.1. Q. Conducted mission planning. Accounted for known mission capabilities, requirements, enemy order of battle, limitations, and approved operating procedures in accordance with directives. Obtained or developed, coordinated and communicated an ID plan that met mission needs. Ensured all required materials were available and on position.

8.3.2. Q-. Conducted mission planning. Accounted for known mission capabilities, requirements, enemy order of battle, limitations, materials, ID plan and approved operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.3.3. U. Failed to conduct mission planning, account for known mission capabilities, requirements, enemy order of battle, limitations, or approved operating procedures. Failed to obtain or develop, coordinate or communicate an ID plan. Did not ensure all required materials were available and on position. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.4. Area 2 – Briefings.

8.4.1. Q. Conducted or attended briefings and extracted and/or provided information consistent to mission accomplishment in accordance with directives.

8.4.2. Q-. Conducted or attended briefings and extracted and/or provided information consistent to mission accomplishment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.4.3. U. Failed to conduct or attend briefings and extract and/or provide information consistent to mission accomplishment. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

8.5.1. Q. Configured, manipulated, controlled, and interpreted displays; responded to alerts; reported outages; updated and utilized mission, auxiliary, and other equipment to accomplish assigned tasks in accordance with directives.

8.5.2. Q-. Configured, manipulated, controlled, and interpreted displays; responded to alerts; reported outages; updated and utilized mission, auxiliary, and other equipment to accomplish assigned tasks. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.5.3. U. Failed to configure, manipulate, control, and interpret displays or respond to alerts. Failed to report outages and update and utilize mission, auxiliary, or other equipment to

accomplish assigned tasks. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.6. Area 4 – Communications Selection and Use.

8.6.1. Q. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required.

8.6.2. Q-. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.6.3. U. Failed to select, monitor, and operate communications equipment in accordance with system manuals, mission tasking, and directives. Failed to ensure completion of communications checks and/or report outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

8.7.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

8.7.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.7.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.8. Area 6 – COMSEC.(CRITICAL)

8.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

8.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

8.9. Area 7 – Authentication Procedures. N/A

8.10. Area 8 – Radio/Telephone (R/T) Procedures.

8.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

8.10.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.10.3. U. Failed to employ R/T procedures, or contained errors or omissions that jeopardized mission or safety. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.11. Area 9 – Coordination.

8.11.1. Q. Coordinated and reported tracks, mission changes, equipment discrepancies, and limitations in accordance with directives. Provided timely and accurate information to all necessary internal positions and external agencies in accordance with directives.

8.11.2. Q-. Coordinated and reported requirements, mission changes, equipment discrepancies, and limitations. Provided timely and accurate information to all necessary internal positions and external agencies in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.11.3. U. Failed to coordinate and report mission requirements, mission changes, equipment discrepancies, or limitations. Failed to provide timely and/or accurate information to all necessary internal positions and external agencies in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.12. Area 10 – Ground Safety. (CRITICAL)

8.12.1. Q. Knew or executed proper evacuation, emergency and local duress procedures. Knew the location of and is familiar with the utilization of ground safety equipment.

8.12.2. U. Failed to know or execute proper evacuation, emergency and local duress procedures. Did not know the location of and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.13. Area 11 – Checklists.

8.13.1. Q. Utilized positional checklist to perform tasks in accordance with directives.

8.13.2. Q-. Utilized positional checklist to perform tasks. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.13.3. U. Failed to utilize positional checklist to perform tasks. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.14. Area 12 – Sensors.

8.14.1. Q. Recognized and reported degraded sensor performance. Demonstrated knowledge of radar locations and capabilities.

8.14.2. Q-. Recognized and reported degraded sensor performance and demonstrated knowledge of radar locations and capabilities. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.14.3. U. Failed to recognize and report degraded sensor performance. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.15. Area 13 – Weather Information.

8.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

8.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.16. Area 14 – Rules of Engagement (ROE). (CRITICAL)

8.16.1. Q. Implemented ROE procedures for peacetime, transition and wartime conditions as required. Recognized hostile or harassing acts, and accomplished safe passage procedures as required. Responded to ROE situation according to directives.

8.16.2. U. Failed to or incorrectly implemented ROE for peacetime, transition, and wartime conditions that could result in mission failure. Failed to recognize hostile or harassing acts, and accomplish safe passage procedures as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.17. Area 15 – Air Picture. (CRITICAL)

8.17.1. Q. Detected, tracked, updated, and reported tracks. Initiated track symbology in accordance with directives. Assisted with peacetime procedural ID methods. Maintained current air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives.

8.17.2. U. Failed to detect, track, update, or report tracks. Failed to initiate tracked symbology in accordance with directives. Did not accurately assist with peacetime procedural ID methods. Did not take action to ensure an accurate and identifiable air picture in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

8.18.1. Q. Recognized the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Took actions to correlate source of EA and performed active and passive tracking procedures as necessary to maintain tracking continuity.

8.18.2. Q-. Recognized and reported the presence of electronic or mechanical jamming or interference. Implemented notification and reporting procedures. Took actions to correlate source of EA and performed active and passive tracking procedures as necessary to maintain tracking continuity. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.18.3. U. Failed to recognize and report the presence of electronic or mechanical jamming or interference. Failed to implement notification and reporting procedures in accordance with directives. Failed to take actions to correlate source of EA and/or did not perform active and passive tracking procedures as necessary to maintain tracking continuity. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.19. Area 17 – External Command and Control Assets.

8.19.1. Q. Assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required, in accordance with directives. Monitored link operations and took action to ensure effective data exchange is achieved.

8.19.2. Q-. Assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Monitored link operations and took action to ensure effective data exchange is achieved. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.19.3. U. Failed to assist with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Did not monitor link operations and did not take action to ensure effective data exchange is achieved. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.20. Area 18 – Expansion Procedures (CONUS).

8.20.1. Q. Performed expansion and expansion recovery procedures as required in accordance with directives.

8.20.2. Q-. Performed expansion and expansion recovery procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.20.3. U. Failed to perform expansion and expansion recovery procedures as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

8.21.1. Q. Recognized emergency, NORDO and hijack aircraft situations, implemented reporting procedures, and monitored emergency aircraft actions in accordance with directives.

8.21.2. Q-. Recognized emergency, NORDO and hijack aircraft situations, implemented reporting procedures, and monitored emergency aircraft actions in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

8.21.3. U. Failed to recognize emergency, NORDO and hijack aircraft situations, implement reporting procedures, and monitor emergency aircraft actions in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.22. Area 20 – Battle Management. N/A**8.23. Area 21 – Mission Execution. (CRITICAL)**

8.23.1. Q. Executed the assigned mission in accordance with directives. Actions resulted in mission accomplishment; used resources effectively to achieve mission objectives.

8.23.2. U. Failed to execute the assigned mission in accordance with directives. Actions jeopardized mission accomplishment and/or ineffectively used resources to achieve mission objectives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.24. Area 22 – Reporting and Documentation Procedures.

- 8.24.1. Q. Reported and documented all required information in accordance with directives.
- 8.24.2. Q-. Reported and documented all required information in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.
- 8.24.3. U. Failed to report and document all required information in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.25. Area 23 – Positional Changeover and Debriefing.

- 8.25.1. Q. Conducted changeover and/or debriefing in accordance with directives.
- 8.25.2. Q-. Conducted changeover and/or debriefing. Committed errors or omissions that did not adversely affect mission accomplishment or safety.
- 8.25.3. U. Failed to conduct changeover and/or debriefing, or briefings contained errors or omissions that jeopardized mission accomplishment or safety.

8.26. Area 24 – ID/Safe Passage. (CRITICAL)

- 8.26.1. Q. Accurately identified all air traffic in the assigned AO and employed safe passage procedures in a timely and efficient manner in accordance with directives. Accomplished or directed unknown rider and/or unknown cowboy procedures in accordance with applicable authenticators.
- 8.26.2. U. Failed to identify all air traffic in the assigned AO or employ safe passage procedures correctly in accordance with directives. Failed to accomplish or direct unknown rider and/or unknown cowboy procedures in accordance with applicable authenticators. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.27. Area 25 – Aircraft Operations. N/A**8.28. Area 26 – Safety of Flight. N/A****8.29. Area 27 – Airspace Management and Air Traffic Control (ATC) Coordination.**

- 8.29.1. Q. Coordinated with ATC agencies resulting in timely ID of aircraft in accordance with directives.
- 8.29.2. Q-. Coordinated with ATC agencies resulting in timely ID of aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.
- 8.29.3. U. Failed to coordinate with ATC agencies resulting in untimely ID of aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

8.30. Area 28 – Continuum of Control. N/A

8.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

- 8.31.1. Area 29 – Instructional Ability.
- 8.31.2. Area 30 – Briefings and Critiques.
- 8.31.3. Area 31 – Demonstration and Performance.

Chapter 9

ICO/TECHNICIAN POSITIONAL QUALIFICATION EVALUATION

9.1. General.

9.1.1. This chapter contains the criteria specifying the tasks required of a qualified ICO/Technician (ICO/T). Evaluation requirements are outlined in [Table 9.1](#) for ICO/T and Instructor ICO/T positions.

9.1.2. The ICO/T must be evaluated during a live, virtual, or constructive exercise as defined in AFI 13-1 STAN/EVAL Vol 2. **(T-3)**

9.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all ICO/T duties safely and effectively in accordance with technical orders and operations directives. **(T-3)**
A rating of Q, Q- or U will be given to each area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 9.1. Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Utilization of Equipment and Interpretation of Displays	
4	Communication Selection and Use	
5	INFOSEC/OPSEC	
6	COMSEC	Critical
7	Authentication Procedures	
8	Radio/Telephone (R/T) procedures	
9	Coordination	
10	Ground Safety	Critical
11	Checklists	
12	Sensors	
13	Weather Information	
14	Rules of Engagement (ROE)	
15	Air Picture	Critical
16	Electronic Attack/Electronic Protection (EA/EP)	
17	External Command and Control Assets	
18	Expansion Procedures (CONUS)	
19	Aircraft Emergency/Personnel Recovery (PR) procedures	
20	Battle Management	
21	Mission Execution	Critical
22	Reporting and Documentation Procedures	
23	Positional Changeover and Debriefing	
24	Identification and Safe Passage Procedures	N/A
25	Aircraft Operations	N/A
26	Safety of Flight	N/A
27	Airspace Management/Air Traffic Control (ATC) Coordination	N/A

28	Continuum of Control	N/A
Instructor only Areas (Only required for instructor qualified crewmembers)		
29	Instructional Ability	See Note
30	Briefings and Critiques	See Note
31	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

9.3. Area 1 – Mission Planning.

9.3.1. Q. Conducted mission planning and accounted for known mission capabilities, requirements, limitations, and approved operating procedures in accordance with directives.

9.3.2. Q-. Conducted mission planning and accounted for known mission capabilities, requirements, limitations, and approved operating procedures in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.3.3. U. Failed to conduct mission planning and account for known mission capabilities, requirements, limitations, and approved operating procedures in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.4. Area 2 – Briefings.

9.4.1. Q. Supervised, conducted or attended briefings and extracted or provided information consistent to mission accomplishment or safety in accordance with directives.

9.4.2. Q-. Supervised, conducted or attended briefings and extracted or provided information consistent to mission accomplishment or safety in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.4.3. U. Failed to supervise, conduct or attend briefings and extract or provide information consistent to mission accomplishment or safety in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.5. Area 3 – Utilization of Equipment and Interpretation of Displays.

9.5.1. Q. Configured, manipulated, controlled, and interpreted displays. Utilized mission, auxiliary and other equipment to accomplish assigned tasks in accordance with directives and reported outages. As appropriate, ensured subordinates comply with this requirement.

9.5.2. Q-. Configured, manipulated, controlled, and interpreted displays. Utilized mission, auxiliary and other equipment to accomplish assigned tasks in accordance with directives and report outages. As appropriate, ensured subordinates comply with this requirement. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.5.3. U. Failed to configure, manipulate, control, and interpret displays. Failed to utilize mission, auxiliary and other equipment to accomplish assigned tasks in accordance with directives and report outages. Failed to, as appropriate, ensure subordinates comply with this requirement. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.6. Area 4 – Communications Selection and Use.

9.6.1. Q. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required.

9.6.2. Q-. Selected, monitored, and operated communications equipment in accordance with system manuals, mission tasking, and directives. Ensured completion of communications checks and reported outages as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.6.3. U. Failed to select, monitor and operate communications equipment in accordance with system manuals, mission tasking, and directives. Failed to ensure completion of communications checks and reported outages as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.7. Area 5 – Information Security/Operations Security (INFOSEC/OPSEC).

9.7.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

9.7.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.7.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.8. Area 6 – COMSEC. (CRITICAL)

9.8.1. Q. Used and controlled COMSEC in accordance with established procedures.

9.8.2. U. Failed to use and control COMSEC in accordance with established procedures.

9.9. Area 7 – Authentication Procedures.

9.9.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

9.9.3. U. Committed errors or omissions that jeopardized mission accomplishment.

9.10. Area 8 – Radio/Telephone (R/T) Procedures.

9.10.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures. As appropriate, ensured subordinates comply with this requirement.

9.10.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. As appropriate, ensured subordinates comply with this requirement. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.10.3. U. Failed to employ R/T procedures in accordance with directives and local standard operating procedures. Failed to ensure subordinates complied with this requirement, as

appropriate. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.11. Area 9 – Coordination.

9.11.1. Q. Coordinated and reported all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. As appropriate, ensured subordinates comply with this requirement.

9.11.2. Q-. Coordinated and reported all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. As appropriate, ensured subordinates comply with this requirement. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.11.3. U. Failed to coordinate and report all requirements, mission changes, equipment discrepancies, and limitations in accordance with directives. Failed to, as appropriate, ensure subordinates comply with this requirement. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.12. Area 10 – Ground Safety. (CRITICAL)

9.12.1. Q. Knew or executed proper evacuation procedures. Knew the location and is familiar with the utilization of ground safety equipment.

9.12.2. U. Failed to know or execute proper evacuation procedures. Did not know the location and was not familiar with the utilization of ground safety equipment. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.13. Area 11 – Checklists.

9.13.1. Q. Complied with positional checklist to perform tasks in accordance with directives.

9.13.2. Q-. Complied with positional checklist to perform tasks in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.13.3. U. Failed to comply with positional checklist to perform tasks in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.14. Area 12 – Sensors.

9.14.1. Q. Recognized and reported degraded sensor performance. Demonstrated knowledge of theoretical radar configurations and capabilities.

9.14.2. Q-. Recognized and reported degraded sensor performance. Demonstrated knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.14.3. U. Failed to recognize and report degraded sensor performance. Failed to demonstrate knowledge of theoretical radar configurations and capabilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.15. Area 13 – Weather Information.

9.15.1. Q. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives.

9.15.2. Q-. Interpreted and disseminated weather information. Updated and provided notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.15.3. U. Failed to interpret and disseminate weather information. Failed to update or provide notification of weather changes affecting mission aircraft in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.16. Area 14 – Rules of Engagement (ROE).

9.16.1. Q. Demonstrated basic knowledge of the ROE with appropriate levels of authority in accordance with directives.

9.16.2. Q-. Demonstrated basic knowledge of the ROE with appropriate levels of authority. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.16.3. U. Failed to demonstrate basic knowledge of the ROE with appropriate levels of authority.

9.17. Area 15 – Air Picture.(CRITICAL)

9.17.1. Q. Maintained current air picture and took actions to ensure an accurate and identifiable air picture in accordance with directives. Detected, tracked, updated, and reported tracks. Monitored link operations and took action to ensure effective data exchange is achieved.

9.17.2. U. Failed to maintain current air picture and take actions to ensure an accurate and identifiable air picture in accordance with directives. Failed to detect, track, update, or report tracks. Failed to monitor link operations to ensure effective data exchange. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.18. Area 16 – Electronic Attack/Electronic Protection (EA/EP).

9.18.1. Q. Recognized and reported the presence of electronic or mechanical jamming or interference. Ensured notification and reporting procedures are implemented. Took actions to correlate source of EA and applies EP in accordance with directives.

9.18.2. Q-. Recognized and reported the presence of electronic or mechanical jamming or interference. Ensured notification and reporting procedures are implemented. Took actions to correlate source of EA and applies EP. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.18.3. U. Failed to recognize and report the presence of electronic or mechanical jamming or interference. Failed to implement notification and reporting procedures in accordance with directives. Failed to correlate source of EA or EP as appropriate. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.19. Area 17 – External Command and Control Assets.

9.19.1. Q. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required, in accordance with directives.

9.19.2. Q-. Directed, controlled, supervised, or assisted with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.19.3. U. Failed to direct, control, supervise, or assist with the employment of assigned C2 and sensor assets, to include voicetell accomplishment as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.20. Area 18 – Expansion Procedures (CONUS).

9.20.1. Q. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required in accordance with directives.

9.20.2. Q-. Supervised, controlled, or assisted with expansion and expansion recovery procedures as required. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.20.3. U. Failed to supervise, control, or assist with expansion and expansion recovery procedures as required. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.21. Area 19 – Aircraft Emergency and Personnel Recovery (PR) Procedures.

9.21.1. Q. Recognized emergency aircraft situations, implemented reporting procedures, monitored emergency aircraft actions, and conducted PR operations in accordance with directives.

9.21.2. Q-. Recognized emergency aircraft situations, implemented reporting procedures, monitored emergency aircraft actions, and conducted PR operations. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.21.3. U. Failed to recognize emergency aircraft situations, implement reporting procedures, monitor emergency aircraft actions, and conduct PR operations in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.22. Area 20 – Battle Management.

9.22.1. Q. Executed or assisted with SPINS, OPORDs, and/or CONPLANs. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment in accordance with directives.

9.22.2. Q-. Executed or assisted with SPINS, OPORDs, and/or CONPLANs. Supervised, controlled, or assisted with employment of resources within the limitations and capabilities of assigned equipment. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.22.3. U. Failed to execute or assist with SPINS, OPORDs, and/or CONPLANs. Did not supervise, control, or assist with employment of resources within the limitations and

capabilities of assigned equipment with in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.23. Area 21 – Mission Execution. (CRITICAL)

9.23.1. Q. Executed the assigned mission in accordance with directives. Decisions resulted in mission accomplishment or safety and effectively used resources to achieve mission objectives.

9.23.2. U. Failed to execute the assigned mission in accordance with directives. Decisions may have jeopardized mission accomplishment and failed to effectively use resources to achieve mission objectives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.24. Area 22 – Reporting and Documentation Procedures.

9.24.1. Q. Reported and documented all required items to include radar outages and EA in accordance with directives.

9.24.2. Q-. Reported and documented all required items to include radar outages and EA in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.24.3. U. Failed to report and document all required items to include radar outages and EA in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

9.25. Area 23 – Positional Changeover and Debriefing.

9.25.1. Q. Conducted changeover and/or debriefing in accordance with directives.

9.25.2. Q-. Conducted changeover and/or debriefing. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

9.25.3. U. Failed to conduct changeover and/or debriefing, or briefings contained errors or omissions that jeopardized mission accomplishment or safety.

9.26. Area 24 – ID/Safe Passage. N/A

9.27. Area 25 – Aircraft Operations. N/A

9.28. Area 26 – Safety of Flight. N/A

9.29. Area 27 – Airspace Management/ATC Coordination. N/A

9.30. Area 28 – Continuum of Control. N/A

9.31. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

9.31.1. Area 29 – Instructional Ability.

9.31.2. Area 30 – Briefings and Critiques.

9.31.3. Area 31 – Demonstration and Performance.

Chapter 10

JAPANESE AIR SELF DEFENSE FORCES (JASDF) BASE AIR DEFENSE GROUND ENVIRONMENT SYSTEM MISSION CREW COMMANDER/TECHNICIAN QUALIFICATION EVALUATION

10.1. General.

10.1.1. This chapter contains the criteria specifying the tasks required of a basic qualified (BQ) JASDF Base Air Defense Ground Environment System MCC/T and is applicable to 13BXXs and 1C5X1s assigned to the 610 ACF and 623 ACF. Both the 610 ACF and 623 ACF will supplement this chapter to encompass those responsibilities required during tactical control operations team (TCOT) operations in ACFOI 13-1 *TCOT Crew Employment Standards*. (T-3) The MCC and MCCT qualifications will be designated as BMC certified positions for the based units. (T-3) Evaluation requirements are outlined in [Table 10.1](#)

10.1.2. The JASDF Base Air Defense Ground Environment System MCC/T evaluation must include performance during daily flying activity. (T-3) Scenarios for non-flying activities should be used to cover areas not normally encountered during daily activity.

10.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all MCC/T duties safely and effectively in accordance with technical orders and operations directives. (T-3) A rating of Q, Q- or U will be given to each non-critical area. (T-2) Critical areas are rated Q or U. (T-2)

Table 10.1. Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Console Set-Up and Operation	
3	C2 Organization and Responsibilities	
4	Unit Operations Structure and Function	
5	Crew Briefing	
6	Operational Messages and Reporting	
7	Communications Systems	
8	Radar Systems	
9	INFOSEC/OPSEC	
10	COMSEC	Critical
11	Authentication Procedures	
12	Airspace Control/Management	
13	Alerts and Warnings	Critical
14	Air Defense Operations	Critical
15	Positional Aids and Displays	
16	Positional Changeover Brief	
17	Crew Debriefing	
18	Documentation	
Instructor only Areas (Only required for instructor qualified crewmembers)		
19	Instructional Ability	See Note

20	Briefings and Critiques	See Note
21	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

10.3. Area 1 – Mission Planning.

10.3.1. Q. Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Obtained equipment status and determined impact on operational mission. Supervised crew mission planning efforts. Read and initialed all items in the operations information file (OIF) and/or read files.

10.3.2. Q-. Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Obtained equipment status and determined impact on operational mission. Supervised crew mission planning efforts. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.3.3. U. Failed to direct mission crew planning efforts. Failed to determine mission tasking, ROE, chain of command, and/or battle plans from mission tasking documents. Failed to obtain equipment status and/or determine impact of equipment status on operational mission. Failed to supervise crew mission planning efforts. Failed to read or initial all items in the OIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.4. Area 2 – Console Set-Up and Operation.

10.4.1. Q. Set-up and operated the operations console in accordance with unit checklists. Located, interpreted, initiated, and explained console controls and indicators. Used switch actions to customize the console for optimal SA. Effectively used positional aids.

10.4.2. Q-. Set up and operated the console in accordance with unit checklists. Located, interpreted, initiated, and explained console controls and indicators. Used switch actions to customize the console for optimal SA. Used positional aids. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.4.3. U. Failed to set up and operate the console in accordance with unit checklists. Failed to locate, interpret, initiate, and explain console controls and indicators. Failed to use switch actions to customize the console for optimal SA. Failed to use positional aids. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.5. Area 3 – C2 Organization and Responsibilities.

10.5.1. Q. Demonstrated knowledge of the theater C2 structure and responsibilities.

10.5.2. Q-. Demonstrated knowledge of the theater C2 structure and responsibilities but committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.5.3. U. Failed to demonstrate knowledge of the theater C2 structure and responsibilities. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.6. Area 4 – Unit Operations Structure and Function.

10.6.1. Q. Knowledgeable of chain of command and unit organizational structure. Described all major operations functions.

10.6.2. Q-. Knowledgeable of chain of command and unit organizational structure. Described major operations functions. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.6.3. U. Failed to demonstrate adequate knowledge of chain of command and unit organizational structure. Unable to describe major operations functions. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.7. Area 5 – Crew Briefing.

10.7.1. Q. Conducted the crew briefing. Briefed overall mission crew objectives. Organized briefing in a logical sequence in accordance with applicable directives. Ensured mission crew was briefed on all required aspects of the mission.

10.7.2. Q-. Conducted the crew briefing. Briefed overall mission crew objectives. Organized briefing in a logical sequence in accordance with applicable directives. Ensured mission crew was briefed on all required aspects of the mission. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.7.3. U. Failed to conduct the crew briefing. Failed to brief overall mission crew objectives. Failed to organize the briefing into a logical sequence as required by applicable directives. Failed to ensure mission crew was briefed on all required aspects of the mission. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.8. Area 6 – Operational Message and Reporting.

10.8.1. Q. Demonstrated knowledge or effective application of operational messages and reporting. Effectively prepared required documents and accomplished verbal reporting in accordance with directives.

10.8.2. Q-. Demonstrated knowledge or application of operational messages and reporting. Prepared required documents and accomplished verbal reporting in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.8.3. U. Failed to demonstrate adequate knowledge or application of operational messages and reporting. Unable to effectively prepare and route required documents and accomplish verbal reporting. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.9. Area 7 – Communications Systems.

10.9.1. Q. Demonstrated knowledge or effective application of dedicated communications and computer systems and outage procedures in accordance with directives.

10.9.2. Q-. Demonstrated knowledge or application of dedicated communications and computer systems and outage procedures in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.9.3. U. Failed to demonstrate adequate knowledge or effective application of dedicated communications and computer systems. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.10. Area 8 – Radar Systems.

10.10.1. Q. Demonstrated knowledge of theater radar systems to include coverage area, limitations, and preventive maintenance procedures in accordance with directives. Knowledgeable of theater ballistic missile (TBM) threats and defense mechanisms.

10.10.2. Q-. Demonstrated knowledge of theater radar systems to include coverage area, limitations, and preventive maintenance procedures in accordance with directives. Knowledgeable of TBM threats and defense mechanisms. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.10.3. U. Failed to demonstrate adequate knowledge of radar and TBM systems. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.11. Area 9 – Information Security/Operations Security (INFOSEC/OPSEC).

10.11.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

10.11.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.11.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.12. Area 10 – COMSEC. (CRITICAL)

10.12.1. Q. Used and controlled COMSEC in accordance with established procedures.

10.12.2. U. Failed to use and control COMSEC in accordance with established procedures.

10.13. Area 11 – Authentication Procedures.

10.13.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

10.13.3. U. Committed errors or omissions that jeopardized mission accomplishment.

10.14. Area 12 – Airspace Control/Management.

10.14.1. Q. Demonstrated adequate knowledge and effective application of airspace control and management procedures in accordance with directives.

10.14.2. Q-. Demonstrated adequate knowledge and effective application of airspace control and management procedures in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.14.3. U. Failed to demonstrate adequate knowledge and effective application of airspace control and management procedures in accordance with directives. Committed errors or omissions that adversely impacted mission accomplishment or safety.

10.15. Area 13 – Alerts and Warnings. (CRITICAL)

10.15.1. Q. Defined and described actions associated with alerts, warnings, and readiness states.

10.15.2. U. Failed to define and describe actions associated with alerts, warnings, and readiness states. Committed errors or omissions that adversely impacted mission accomplishment or safety.

10.16. Area 14 – Air Defense Operations. (CRITICAL)

10.16.1. Q. Executed the assigned mission in a timely, efficient manner during live or simulated operations with a complete mission crew. Coordinated with internal and external agencies and disseminated air defense warnings and other required information as required. Provided guidance to the mission crew on employment of resources, ROE, ID, and airspace control order (ACO) procedures. Monitored detection, tracking and ID of air traffic within the area of responsibility (AOR). Assessed ROE and ID procedures based on changing alert conditions. Supervised the declaration of targets as hostile based on hostile intent and hostile act criteria and level of authority. Ensured engagement tactics were commensurate with threat assessment and ROE. Ensured compliance with ACO procedures. Directed employment of resources to support execution of the ACP, integrated tasking order (ITO), and ATO. Supervised allocation of resources to counter the threat and accomplish mission objectives. Ensured mission crew compliance with SPINS and other guidance. Demonstrated adequate knowledge of exercises (e.g., live, virtual, or constructive) conducted in theater.

10.16.2. U. Failed to execute the assigned mission in a timely, efficient manner during live or simulated operations with a complete mission crew. Failed to coordinate with internal or external agencies and disseminate air defense warnings as required. Failed to provide guidance to the mission crew on employment of resources, ROE, ID, and ACO procedures. Failed to monitor detection, tracking and ID of air traffic within the AOR. Failed to assess ROE and ID procedures based on changing alert conditions. Failed to supervise the declaration of targets as hostile based on hostile intent and hostile act criteria and level of authority. Failed to ensure engagement tactics were commensurate with threat assessment and ROE. Failed to ensure compliance with ACO procedures and direct employment of resources to support execution of the ACP, ITO, and ATO. Failed to supervise allocation of resources to counter the threat or accomplish mission objectives. Failed to ensure mission crew compliance with SPINS and other guidance. Failed to demonstrate adequate knowledge of exercises (e.g., live, virtual, or constructive) conducted in theater. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.17. Area 15 – Positional Aids and Displays.

10.17.1. Q. Effectively used positional aids and displays during search and rescue (SAR), and medical evacuation (MEDEVAC) operations.

10.17.2. Q-. Used positional aids and displays during SAR, and MEDEVAC operations. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.17.3. U. Failed to use positional aids and displays during SAR, and MEDEVAC operations. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.18. Area 16 – Positional Changeover Brief.

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

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

10.18.3. U. Failed to brief the relieving MCC on current operational situation before departing position. Failed to conduct positional changeover briefing. Failed to follow positional changeover briefing checklist. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.19. Area 17 – Crew Debriefing.

10.19.1. Q. Conducted the crew debriefing. Reconstructed operational mission events. Determined mission crew accomplishments relative to briefed mission objectives. Summarized lessons learned.

10.19.2. Q-. Conducted the crew debriefing. Reconstructed operational mission events. Determined mission crew accomplishments relative to briefed mission objectives. Summarized lessons learned. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.19.3. U. Failed to conduct the crew debriefing. Failed to reconstruct operational mission events. Failed to determine mission crew accomplishments relative to briefed mission objectives. Failed to summarize lessons learned. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.20. Area 18 – Documentation.

10.20.1. Q. Used and submitted unit operational logs and forms at the end of the shift. Ensured documentation of lessons learned.

10.20.2. Q-. Used and submitted unit operational logs and forms at the end of the shift. Ensured documentation of lessons learned. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

10.20.3. U. Failed to use or submit unit operational logs and forms at the end of the shift. Failed to ensure documentation of lessons learned. Committed errors or omissions that jeopardized mission accomplishment or safety.

10.21. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

- 10.21.1. Area 19 – Instructional Ability.
- 10.21.2. Area 20 – Briefings and Critiques.
- 10.21.3. Area 21 – Demonstration and Performance.

Chapter 11

JASDF BASE AIR DEFENSE GROUND ENVIRONMENT SYSTEM SENIOR DIRECTOR/SENIOR DIRECTOR TECH QUALIFICATION EVALUATION

11.1. General. This chapter contains the criteria specifying the tasks required of a BQ JASDF Base Air Defense Ground Environment System SD/SDT and is applicable to 13BXX/1C5X1s assigned to the 610 ACF and 623 ACF. Both the 610 ACF and 623 ACF will supplement this chapter to encompass those responsibilities required during TCOT operations in ACFOI 13-1. **(T-3)** Evaluation requirements are outlined in [Table 11.1](#)

11.1.1. The JASDF Base Air Defense Ground Environment System SD/SDT evaluation must include performance during daily flying activity that supports evaluation objectives. **(T-3)** Scenarios for non-flying activities should be used to cover areas not normally encountered during daily activity. The SD/SDT must supervise a minimum of two control teams during the evaluation. **(T-3)** Functional tasks common to weapons and SD may be evaluated only once and credited to both evaluations.

11.1.2. Functional tasks common to both WD/T and SD/T may be evaluated only once and credited to both evaluations. The differences between the SD and SDT evaluations are primarily in scope of responsibilities and the expectation that the SDT completes the requirements by assisting the SD.

11.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all SD/SDT duties safely and effectively in accordance with technical orders and operational directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 11.1. AD/SDT Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefings	
3	Documentation	
4	Communications Systems	
5	Console Set-Up and Operation	
6	Internal/External Coordination	
7	Local Orientation	SDT Only
8	Air Defense Operations	Critical / SD Only
9	Aircraft Identification	SDT Only
10	Flight Safety	Critical
11	Daily Flying Operations	
12	Air-to-Air Missions	
13	Aerial Refueling Missions	
14	Airspace Management	Critical
15	Radio/Telephone (R/T) Procedures	
16	INFOSEC/OPSEC	
17	COMSEC	Critical

18	Authentication Procedures	
19	Aircraft Emergency Procedures	Critical
20	Weather Inputs	
21	Positional Changeover Brief	
22	Aircrew Debrief	
23	Weapons Debrief	SD Only
Instructor only Areas (Only required for instructor qualified crewmembers)		
24	Instructional Ability	See Note
25	Briefings and Critiques	See Note
26	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

11.3. Area 1 – Mission Planning.

11.3.1. Q. Led or assisted weapons team mission planning efforts. Checked all factors applicable to the mission (e.g., LOAs, SPINS, ROE, ATO/ITO, lessons learned, WD training requirements). Assigned mission planning tasks to WDs.

11.3.2. Q-. Led or assisted weapons team mission planning efforts. Checked all factors applicable to the mission (e.g., LOAs, SPINS, ROE, ATO/ITO, lessons learned, WD training requirements). Assigned mission planning tasks to WDs. Assigned mission planning tasks to WDs. Committed errors or omissions that did not adversely affect mission accomplishment.

11.3.3. U. Failed to lead or assist weapons team mission planning efforts. Failed to check all factors applicable to the mission. Failed to assign mission planning tasks to WDs. Committed errors or omissions that jeopardized mission accomplishment.

11.4. Area 2 – Briefings.

11.4.1. Q. Conducted the weapons portion of the crew briefing. Conducted briefing in an organized and logical sequence in accordance with applicable directives. Provided all required information. Ensured the weapons team was briefed on all aspects of the weapons mission. Participated in and extracted pertinent information from a briefing with the aircrew in accordance with AFI 11-214.

11.4.2. Q-. Conducted the weapons portion of the crew briefing. Conducted briefing in an organized and logical sequence in accordance with applicable directives. Provided all required information. Ensured the weapons team was briefed on all aspects of the weapons mission. Participated in and extracted pertinent information from a briefing with the aircrew in accordance with AFI 11-214. Committed errors or omissions that did not adversely affect mission accomplishment.

11.4.3. U. Failed to conduct the weapons portion of the crew briefing. Failed to provide required information. Failed to ensure the weapons team was briefed on all aspects of the weapons mission. Failed to participate in or extract pertinent information from a briefing with the aircrew as required by AFI 11-214. Committed errors or omissions that jeopardized mission accomplishment.

11.5. Area 3 – Documentation.

11.5.1. Q. Completed required forms and logs in accordance with local directives. Read and initialed for all items in the read files as required.

11.5.2. Q-. Completed required forms and logs in accordance with local directives. Read and initialed for all items in the read files as required. Committed errors or omissions that did not affect mission accomplishment.

11.5.3. U. Failed to complete required forms and logs in accordance with local directives. Failed to read or initial all items in the read files. Committed errors or omissions that jeopardized mission accomplishment.

11.6. Area 4 – Communications Systems.

11.6.1. Q. Demonstrated knowledge and effective application of dedicated communications and computer systems and outage procedures in accordance with directives.

11.6.2. Q-. Demonstrated knowledge and application of dedicated communications and computer systems and outage procedures in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment.

11.6.3. U. Failed to demonstrate adequate knowledge or effective application of dedicated communications and computer systems. Committed errors or omissions that jeopardized mission accomplishment.

11.7. Area 5 – Console Set-Up and Operation.

11.7.1. Q. Set up and operated the operations console in accordance with unit checklists. Located, interpreted, initiated, and explained console controls and indicators. Used switch actions to customize the console for optimal SA. Effectively used positional aids.

11.7.2. Q-. Set up and operated the console in accordance with unit checklists. Located, interpreted, initiated, and explained console controls and indicators. Used switch actions to customize the console for optimal SA. Used positional aids. Committed errors or omissions that did not adversely affect mission accomplishment.

11.7.3. U. Failed to set up and operate the console in accordance with unit checklists. Failed to locate, interpret, initiate, or explain console controls and indicators. Failed to use switch actions to customize the console for optimal SA. Failed to use positional aids. Committed errors or omissions that jeopardized mission accomplishment.

11.8. Area 6 – Internal/External Coordination.

11.8.1. Q. Coordinated and reported all requirements, mission changes, equipment discrepancies and limitations to lateral units and/or higher headquarters (HHQ) in accordance with directives. Employed established coordination procedures with airborne assets in theater.

11.8.2. Q-. Coordinated and reported all requirements, mission changes, equipment discrepancies and limitations to lateral units and/or HHQ in accordance with directives. Employed established coordination procedures with airborne assets in theater. Committed errors or omissions that did not adversely affect mission accomplishment.

11.8.3. U. Failed to coordinate and report all requirements, mission changes, equipment discrepancies and limitations to lateral units and/or HHQ in accordance with directives. Failed to employ established coordination procedures with airborne assets in theater. Committed errors or omissions that jeopardized mission accomplishment.

11.9. Area 7 – Local Orientation. (SDT Only)

11.9.1. Q. Demonstrated knowledge of local procedures, airspace structure, and geographical fixes.

11.9.2. Q-. Demonstrated knowledge of local procedures, airspace structure, and geographical fixes. Committed errors or omissions which did not adversely impact mission accomplishment.

11.9.3. U. Failed to demonstrate knowledge of local procedures, airspace structure, and geographical fixes. Committed errors or omissions that jeopardized mission accomplishment.

11.10. Area 8 – Air Defense Operations. (CRITICAL) (SD Only)

11.10.1. Q. Committed air defense weapons systems to counter the threat in accordance with theater ROE during a live, virtual, or constructive exercise manned with a complete weapons crew. Coordinated with one or more lateral or HHQ units as required. Scrambled interceptors and coordinated airborne orders as required. Maintained a high degree of SA and directed weapons team during transition to degraded operations levels and during changing alert conditions. Recommended threat mode changes to the MCC as necessary.

11.10.2. U. Failed to commit air defense weapons systems to counter the threat in accordance with theater ROE during a live, virtual, or constructive exercise manned with a complete weapons crew. Failed to coordinate with lateral or HHQ units as required. Failed to comply with theater ROE. Failed to scramble interceptors or coordinate airborne orders as required. Failed to maintain SA. Failed to direct the weapons team during transition to degraded operations and during changing alert conditions. Failed to recommend threat mode changes to the MCC as necessary. Committed errors or omissions that jeopardized mission accomplishment.

11.11. Area 9 – Aircraft Identification. (SDT ONLY)

11.11.1. Q. Assisted the WD in identifying assigned aircraft using pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check-in using radar or IFF/SIF displays.

11.11.2. Q-. Assisted the WD in identifying assigned aircraft using pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check-in using radar or IFF/SIF displays. Committed errors or omissions which did not adversely impact mission accomplishment.

11.11.3. U. Failed to assist the WD in identifying assigned aircraft using pilot reported position, IFF/SIF returns or pilot maneuvering. Failed to accomplish ID after aircraft radio check-in using radar or IFF/SIF displays. Committed errors or omissions that jeopardized mission accomplishment.

11.12. Area 10 – Flight Safety. (CRITICAL)

11.12.1. Q. Ensured safety of flight for mission aircraft without error. Accomplished appropriate weapons safety checks as required. Ensured safe vertical and horizontal separation of mission aircraft. Provided 10 mile calls as required. Was aware of safety factors and complied with all rules for the safe control of aircraft. Monitored WDs and coordinated to prevent unsafe acts by controlled aircraft.

11.12.2. U. Failed to ensure safety of flight for mission aircraft. Failed to accomplish appropriate weapons safety checks as required. Failed to ensure safe vertical and horizontal separation of mission aircraft. Failed to provide 10 mile calls as required. Was not aware of safety factors. Did not comply with rules for the safe control of aircraft. Failed to monitor WDs and coordinate to prevent unsafe acts by controlled aircraft. Committed errors or omissions that jeopardized flight safety or mission accomplishment.

11.13. Area 11 – Daily Flying Operations.

11.13.1. Q. Effectively managed the local flying environment. Supervised WDs conducting weapons control missions. Supervised employment of weapons resources. Ensured that the weapons team had appropriate radios, sensors, and airspace to control. Ensured weapons team controlled assigned missions to the level requested and/or followed the continuum of control. Ensured WDs passed threat and situational information to controlled aircraft in a timely manner. Ensured all WDs were aware of existing and forecasted weather conditions. Supervised employment of weapons resources. Coordinated combat air patrol (CAP) and hand-over or recovery points. Effectively scheduled weapons teams to control all missions. Demonstrated ability to execute the pre-integrated tasking order.

11.13.2. Q-. Managed the local flying environment. Supervised WDs conducting weapons control missions. Supervised employment of weapons resources. Ensured that the weapons team had appropriate radios, sensors, and airspace to control. Ensured weapons team controlled assigned missions to the level requested and/or followed the continuum of control. Ensured WDs passed threat and situational information to controlled aircraft in a timely manner. Ensured all WDs were aware of existing and forecasted weather conditions. Supervised employment of weapons resources. Coordinated CAP and hand-over or recovery points. Scheduled weapons teams to control all missions. Demonstrated ability to execute the pre-integrated tasking order. Committed errors or omissions that did not adversely affect mission accomplishment.

11.13.3. U. Failed to supervise WDs conducting weapons control missions. Failed to supervise the employment of weapons resources. Failed to ensure weapons team had appropriate radios, sensors, and airspace to control. Failed to ensure weapons teams' controlled assigned missions to the level requested. Failed to ensure that WDs followed the continuum of control. Failed to ensure WDs passed threat and situational information to controlled aircraft in a timely manner. Failed to supervise the employment of weapons resources. Failed to coordinate CAP, or hand-over or recovery points. Failed to demonstrate ability to execute the pre-integrated tasking order. Failed to effectively schedule weapons teams to control all missions. Committed errors or omissions that jeopardized mission accomplishment.

11.14. Area 12 – Air-to-Air Missions.

11.14.1. Q. Directed air-to-air missions as required. Conducted a minimum 2vX air-to-air mission (ACT/DACT). Provided control for CAP, sweep or force protection that effectively defended assets and/or accomplished the mission. Provided threat warnings to all factor groups. Committed aircraft to a tactical objective in accordance with mission objectives. Provided amplifying information on specific groups, including formations and maneuvers. Provided quality control (QC) of group targeting and follow-on targeting. Provided vectoring assistance as required for rejoins and egress. Provided bearing and range information accurate to within 5 degrees and 2 nautical miles (nm). Maintained SA on mission aircraft and the tactical situation.

11.14.2. Q-. Directed air-to-air missions as required. Conducted a minimum 2vX air-to-air mission (ACT/DACT). Provided control for CAP, sweep or force protection that effectively defended assets and/or accomplished the mission. Provided threat warnings to all factor groups. Committed aircraft to a tactical objective in accordance with mission objectives. Provided amplifying information on specific groups, including formations and maneuvers. Provided quality control QC of group targeting and follow-on targeting. Provided vectoring assistance as required for rejoins and egress. Provided bearing and range information accurate to within 5 degrees and 2 nm. Maintained SA on mission aircraft and the tactical situation. Committed errors or omissions that did not adversely affect mission accomplishment.

11.14.3. U. Failed to direct air-to-air missions as required. Failed to provide control for CAP, sweep, or force protection that effectively defended assets and/or accomplished the mission. Failed to provide threat warning to all factor groups. Failed to commit aircraft to a tactical objective as required by mission directives. Failed to provide amplifying information on specific groups, including formations or maneuvers. Failed to provide QC of group targeting and follow-on targeting. Did not provide vectoring assistance as required for rejoins and egress. Failed to provide bearing and range information accurate to within 5 degrees and 2 nm. Failed to maintain SA on mission aircraft or the tactical situation. Committed errors or omissions that jeopardized flight safety or mission accomplishment.

11.15. Area 13 – Aerial Refueling Missions.

11.15.1. Q. Directed air refueling missions consistent with the continuum of control. Checked in tankers and receivers in accordance with checklists. Passed altimeter settings to all players. Ensured receivers were weapons safe before rendezvous. Managed aerial refueling assets. Prioritized refueling activity and placed receivers in a position to accomplish mission objectives. Provided guidance to all aircraft, including close control vectors and direction of turn, altitudes, and speeds as required, and adjusted commands as necessary to ensure a timely and successful rendezvous. Obtained and disseminated post-refueling offload information as required. Maintained SA.

11.15.2. Q-. Directed air refueling missions consistent with the continuum of control. Checked in tankers and receivers in accordance with checklists. Passed altimeter settings to all players. Ensured receivers were weapons safe before rendezvous. Managed aerial refueling assets. Prioritized refueling activity and placed receivers in a position to accomplish mission objectives. Provided guidance to all aircraft, including close control vectors and direction of turn, altitudes, and speeds as required, and adjusted commands as

necessary to ensure a timely and successful rendezvous. Obtained and disseminated post-refueling offload information as required. Maintained SA. Committed errors or omissions that did not adversely affect mission accomplishment.

11.15.3. U. Failed to direct air refueling missions consistent with the continuum of control. Failed to check tankers and receivers in as required by checklists. Failed to pass altimeter settings to participants or ensure receivers were weapons safe before rendezvous. Failed to manage aerial refueling assets. Failed to prioritize refueling activity. Failed to place receivers in a position to accomplish mission objectives. Failed to conduct point parallel or receiver turn on rendezvous. Failed to maintain SA. Committed errors or omissions that jeopardized flight safety or mission accomplishment.

11.16. Area 14 – Airspace Management. (CRITICAL)

11.16.1. Q. Complied with airspace management requirements and restrictions in accordance with procedures. Initiated airspace requests. Verified airspace restrictions and limitations in accordance with applicable directives. Kept controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

11.16.2. U. Failed to comply with airspace management requirements and restrictions in accordance with procedures. Failed to initiate airspace requests. Did not verify airspace restrictions and limitations in accordance with applicable directives. Failed to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that jeopardized flight safety or mission accomplishment.

11.17. Area 15 – Radio/Telephone (R/T) Procedures.

11.17.1. Q. Communicated with aircrews using proper R/T and brevity code word procedures in accordance with AFTTP 3-1, applicable joint and combined communications procedures, and established standards.

11.17.2. Q-. Communicated with aircrews using proper R/T and brevity code word procedures in accordance with AFTTP 3-1, applicable joint and combined communications procedures and established standards. Committed errors or omissions that did not adversely affect mission accomplishment.

11.17.3. U. Failed to communicate with aircrews using proper R/T and or brevity code word procedures. Failed to comply with AFTTP 3-1, applicable joint and combined communications procedures, and established standards. Committed errors or omissions that jeopardized mission accomplishment.

11.18. Area 16 – Information Security/Operations Security (INFOSEC/OPSEC).

11.18.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

11.18.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

11.18.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

11.19. Area 17 – COMSEC. (CRITICAL)

11.19.1. Q. Used and controlled COMSEC in accordance with established procedures.

11.19.2. U. Failed to use and control COMSEC in accordance with established procedures.

11.20. Area 18 – Authentication Procedures.

11.20.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

11.20.3. U. Committed errors or omissions that jeopardized mission accomplishment.

11.21. Area 19 – Aircraft Emergencies Procedures. (CRITICAL)

11.21.1. Q. Assisted aircraft experiencing an emergency in a timely manner. Recognized the existence of an aircraft emergency. Coordinated responses in accordance with an emergency checklist. Entered the appropriate emergency point on the scope. Monitored WD aircraft emergency responses.

11.21.2. U. Failed to assist aircraft experiencing an emergency in a timely manner. Failed to follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Failed to monitor WD aircraft emergency responses. Committed errors or omissions that led to the loss of the aircraft, aircrew or jeopardized mission accomplishment.

11.22. Area 20 – Weather Inputs.

11.22.1. Q. Accessed, interpreted, and used weather information. Extracted weather information from a weather report.

11.22.2. Q-. Accessed, interpreted, and used weather information. Extracted weather information from a weather report. Committed errors or omissions that did not adversely affect mission accomplishment.

11.22.3. U. Failed to access, interpret, or use weather information. Failed to extract weather from a weather report. Failed to read and/or interpret weather information. Committed errors or omissions that jeopardized mission accomplishment.

11.23. Area 21 – Positional Changeover Brief.

11.23.1. Q. Briefed the relieving SD/SDT on the current operational situation.

11.23.2. Q-. Briefed the relieving SD/SDT on the current operational situation. Committed errors or omissions that did not adversely affect mission accomplishment.

11.23.3. U. Failed to brief the relieving SD/SDT on the current operational situation. Committed errors or omissions that jeopardized mission accomplishment.

11.24. Area 22 – Aircrew Debrief.

11.24.1. Q. Prepared for and participated in a debriefing with the aircrew in accordance with AFI 11-214, Attachment 3 and local directives.

11.24.2. Q-. Prepared for and participated in a debriefing with the aircrew in accordance with AFI 11- 214, [Attachment 3](#) and local directives. Committed errors or omissions that did not adversely affect mission accomplishment.

11.24.3. U. Failed to prepare for or participate in a debriefing with the aircrew in accordance with AFI 11-214, Attachment 3 and local directives. Committed errors or omissions that negatively impacted mission accomplishment.

11.25. Area 23 – Weapons Debrief. (SD ONLY)

11.25.1. Q. Conducted the weapons debriefing. Reconstructed mission events and determined weapons mission accomplishment relative to briefed mission objectives. Summarized and briefed weapons lessons learned.

11.25.2. Q-. Conducted the weapons debriefing. Reconstructed mission events and determined weapons mission accomplishment relative to briefed mission objectives. Summarized and briefed weapons lessons learned. Committed errors or omissions that did not adversely affect mission accomplishment.

11.25.3. U. Failed to conduct the weapons debriefing. Failed to reconstruct mission events. Failed to determine weapons mission accomplishment relative to briefed mission objectives. Failed to summarize or brief weapons lessons learned. Committed errors or omissions that negatively impacted mission accomplishment.

11.26. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

11.26.1. Area 24 – Instructional Ability.

11.26.2. Area 25 – Briefings and Critiques.

11.26.3. Area 26 – Demonstration and Performance.

Chapter 12

JASDF AIR DEFENSE GROUND ENVIRONMENT SYSTEM AIR WEAPONS OFFICER/WEAPONS DIRECTOR QUALIFICATION EVALUATION

12.1. General. This chapter contains the criteria specifying the tasks required of a BQ JASDF Base Air Defense Ground Environment System AWO/WD and is applicable to 13BXX/1C5X1Ds assigned to the 623 ACF, and 610 ACF. Evaluation requirements are outlined in **Table 12.1**

12.1.1. Specific control events that must be accomplished for BQ JASDF Base Air Defense Ground Environment System AWO/WD qualifications are:

12.1.1.1. Air Combat Tactics. **(T-3)** Provide control to tactical fighter(s) in a two scope, two frequency air combat mission. Adversary force must have at least two aircraft. **(T-3)** Must be conducted live. **(T-3)**

12.1.1.2. Air Refueling. **(T-3)** The examinee will control air refueling operations using the continuum of control to at least two separate receivers or elements simultaneously rendezvousing on one or more tankers. **(T-3)** May be conducted in a live, virtual, or constructive environment.

12.1.2. Weapons personnel will be evaluated on a live intercept and/or an air refueling mission and an ACT/DACT mission. **(T-3)** The SEE is responsible for making the determination as to whether briefed or conducted control activities fulfill live control requirements. The specific control events not evaluated in the live environment will be evaluated using simulation equipment if available. **(T-3)**

12.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all weapons duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 12.1. AWO/WD Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefing and debriefing	
3	Positional Equipment Checkout/Setup	
4	Console Operations and Positional Aids	
5	Communications Selection and Use	
6	Local Orientation	
7	INFOSEC/OPSEC	
8	COMSEC	Critical
9	Authentication Procedures	
10	Aircraft Identification	
11	Coordination	
12	Flight Safety	Critical
13	Emergency Procedures	Critical

14	Air-to-Air	
15	Air Refueling	
16	Check-in	
17	Radio/Telephone (R/T) Proficiency	
18	Positional Changeover Brief	
Instructor only Areas (Only required for instructor qualified crewmembers)		
19	Instructional Ability	See Note
20	Briefings and Critiques	See Note
21	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

12.3. Area 1 – Mission Planning.

12.3.1. Q. Mission planning was comprehensive and effective. Reviewed pertinent materials, factors and situations having a bearing on the mission.

12.3.2. Q-. Mission planning was effective. Reviewed pertinent materials, factors, and situations having a bearing on the mission. Committed errors or omissions that did not jeopardize mission effectiveness.

12.3.3. U. Failed to mission plan. Failed to review pertinent materials, factors, and situations having a bearing on the mission. Committed errors or omissions that impacted or adversely impacted operations.

12.4. Area 2 – Briefing and Debriefing.

12.4.1. Q. Attended all mission briefings and debriefings. Extracted and provided all necessary information. Briefed factors, situations or conditions having a bearing on the mission and coordination was thorough.

12.4.2. Q-. Attended all mission briefings and debriefings. Extracted and provided necessary information. Briefed factors, situations or conditions having a bearing on the mission and coordination was thorough. Committed errors or omissions that did not jeopardize mission effectiveness.

12.4.3. U. Failed to attend all mission briefings and debriefings. Failed to extract and provide necessary information. Failed to brief and coordinate actors, situations or conditions having a bearing on the mission. Committed errors or omissions that jeopardized mission effectiveness.

12.5. Area 3 – Positional Equipment Check-Out and Set-Up.

12.5.1. Q. Set-up and checked out status of console, communications, and other operator tasked equipment to ensure operation in accordance with directives.

12.5.2. Q-. Set-up and checked out console, communications, and other operator tasked equipment to ensure operation in accordance with directives. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.5.3. U. Failed to set-up and check out console, communications, and other operator tasked equipment in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.6. Area 4 – Console Operations and Positional Aids.

12.6.1. Q. Interpreted data, responded to prompts and initiated use of appropriate windows/buttons/controlled to ensure console displays updated in accordance with directives. Effectively used and interpreted available positional aids.

12.6.2. Q-. Interpreted data, responded to prompts and initiated use of appropriate windows/buttons/controlled to ensure console displays updated in accordance with directives. Used and interpreted available positional aids. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.6.3. U. Failed to interpret data, responded to prompts and initiate use of appropriate windows/buttons/controlled to ensure console displays updated in accordance with directives. Failed to use and interpret available positional aids. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.7. Area 5 – Communications Selections and Use.

12.7.1. Q. Selected and operated communications equipment including primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives.

12.7.2. Q-. Selected and operated communications equipment including primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.7.3. U. Failed to select and operate communications equipment including primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.8. Area 6 – Local Orientation.

12.8.1. Q. Demonstrated knowledge of local procedures, airspace structure, and geographical fixes.

12.8.2. Q-. Demonstrated knowledge of local procedures, airspace structure, and geographical fixes. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.8.3. U. Failed to demonstrate knowledge of local procedures, airspace structure, and geographical fixes. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.9. Area 7 – Information Security/Operations Security (INFOSEC/OPSEC).

12.9.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

12.9.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

12.9.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.10. Area 8 – COMSEC.(CRITICAL)

12.10.1. Q. Used and controlled COMSEC in accordance with established procedures.

12.10.2. U. Failed to use and control COMSEC in accordance with established procedures.

12.11. Area 9 – Authentication Procedures.

12.11.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

12.11.3. U. Committed errors or omissions that jeopardized mission accomplishment.

12.12. Area 10 – Aircraft ID.

12.12.1. Q. Identified assigned aircraft employing pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check-in using radar scope interpretation.

12.12.2. Q-. Identified assigned aircraft employing pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check-in using radar scope interpretation. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.12.3. U. Failed to identify assigned aircraft by pilot reported position, IFF/SIF returns, or pilot maneuvering. Failed to accomplish ID after aircraft radio check-in using radar scope interpretation. Committed errors or omissions that adversely impacted mission accomplishment or safety.

12.13. Area 11 – Coordination.

12.13.1. Q. Coordinated and reported all requirements, mission changes, and equipment discrepancies/limitations in accordance with directives.

12.13.2. Q-. Coordinated and reported requirements, mission changes, and equipment discrepancies/limitations in accordance with directives. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.13.3. U. Failed to coordinate and report requirements, mission changes, equipment discrepancies/limitations in accordance with directives. Committed errors or omissions that adversely impacted mission accomplishment or safety.

12.14. Area 12 – Flight Safety.(CRITICAL)

12.14.1. Q. Effectively applied all flight safety procedures in accordance with directives. Accurately transmitted all required safety calls (i.e., traffic advisories, ATC clearances, airspace calls). Knowledgeable of and effectively applied “TERMINATE” and “KNOCK-IT-OFF” criteria.

12.14.2. U. Lacked critical knowledge or failed to apply flight safety requirements in accordance with directives. Failed to provide timely and accurate traffic advisories, airspace

calls, or ATC clearances. Failed to effectively apply “TERMINATE” and “KNOCK-IT-OFF” procedures. Committed errors or omissions that adversely impacted mission accomplishment or safety.

12.15. Area 13 – Emergency Procedures.(CRITICAL)

12.15.1. Q. Demonstrated thorough knowledge of emergency procedures. Recognized emergency situations and implemented emergency procedures in accordance with directives.

12.15.2. U. Failed to demonstrate adequate knowledge of emergency procedures. Failed to recognize emergency situations and implement emergency procedures in accordance with directives. Committed errors or omissions that adversely impacted mission accomplishment or safety.

12.16. Area 14 – Air-to-Air.

12.16.1. Q. Provided essential information in an approved, briefed or requested format. Provided timely and accurate target information. Made threat calls to appropriate aircraft in accordance with AFTTP 3-1. Adhered to mission brief. Ensured no unreported threats engaged friendly aircraft.

12.16.2. Q-. Provided essential information in an approved, briefed or requested format. Provided timely and accurate target information. Made threat calls to appropriate aircraft in accordance with AFTTP 3-1. Adhered to mission brief. Ensured no unreported threats engaged friendly aircraft. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.16.3. U. Failed to provide essential information in a timely or accurate manner. Failed to make threat calls as required. Failed to adhere to the mission brief. Friendly aircraft were engaged by unreported threats. Committed errors or omissions that adversely impacted mission accomplishment or safety.

12.17. Area 15 – Air Refueling.

12.17.1. Q. Directed air refueling missions consistent with the continuum of control. Checked in tankers and receivers in accordance with checklists. Passed altimeter settings to all players. Ensured receivers were weapons safe before rendezvous. Provided guidance to all aircraft, including close control vectors and direction of turn, altitudes and speeds as required, and adjusted commands as necessary to ensure a timely and successful rendezvous. Made all required safety calls in accordance with AFI 11-214 and published local directives

12.17.2. Q-. Directed air refueling missions consistent with the continuum of control. Checked in tankers and receivers in accordance with checklists. Passed altimeter settings to all players. Ensured receivers were weapons safe before rendezvous. Provided guidance to all aircraft, including close control vectors and direction of turn, altitudes and speeds as required, and adjusted commands as necessary to ensure a timely and successful rendezvous. Made all required safety calls in accordance with AFI 11-214 and published local directives. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

12.17.3. U. Failed to provide guidance to aircraft, including close control vectors and directions of turn, altitudes or speed, to ensure a timely and successfully positioned rendezvous. Failed to adjust commands as required. Failed to make all required safety calls

in accordance with AFI 11-214 and published local directives. Committed errors or omissions that adversely impacted mission accomplishment or safety.

12.18. Area 16–Check-In.

12.18.1. Q. Provided guidance to all aircraft in accordance with published local directives. Transmissions were clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives as applicable.

12.18.2. Q-. Provided guidance to aircraft in accordance with published local directives. Transmissions were mostly clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives. Committed errors or omissions that did not jeopardize mission accomplishment or safety.

12.18.3. U. Failed to provide guidance to aircraft in accordance with published local directives. Transmissions were not clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.19. Area 17 – Radio/Telephone (R/T) Proficiency.

12.19.1. Q. Effectively applied appropriate R/T brevity code words and communication procedures. Transmissions were clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives.

12.19.2. Q-. Applied appropriate R/T brevity code words and communications. Transmissions were mostly clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives. Committed errors or omissions that did not jeopardize mission accomplishment or safety.

12.19.3. U. Failed to demonstrate thorough knowledge or effective application of appropriate R/T brevity code words or communication procedures. Transmissions were excessive, incomplete, broken, clipped, and repetitious or contained extraneous information. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.20. Area 18 – Positional Changeover Brief.

12.20.1. Q. Briefed the relieving AWO/WD or SD on the current operational situation in accordance with squadron standards and positional aids.

12.20.2. Q-. Briefed the relieving AWO/WD or SD on the current operational situation. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

12.20.3. U. Failed to brief the relieving AWO/WD or SD on the current operational situation. Committed errors or omissions that jeopardized mission accomplishment or safety.

12.21. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

12.21.1. Area 19 – Instructional Ability.

12.21.2. Area 20 – Briefings and Critiques.

12.21.3. Area 21 – Demonstration and Performance.

Chapter 13

JASDF BASE AIR DEFENSE GROUND ENVIRONMENT SYSTEM WD TECHNICIAN QUALIFICATION EVALUATION

13.1. General. This chapter contains the criteria specifying the tasks required of a BQ JASDF Base Air Defense Ground Environment System WDT and is applicable to 1C5X1s assigned to the 623 ACF and 610 ACF. Evaluation requirements are outlined in [Table 13.1](#)

13.1.1. Specific control events that must be accomplished for BQ JASDF Base Air Defense Ground Environment System WDT qualifications are:

13.1.2. Air Combat Tactics. **(T-3)** Conduct a two scope, two frequency air combat mission. Adversary force must have at least two aircraft. **(T-3)** Must be conducted live. **(T-3)**

13.1.3. Air Refueling. **(T-3)** Conduct air refueling with at least one tanker and two flights of receivers in accordance with standards and local directives. Make all required safety calls. May be conducted live, virtual, or constructive.

13.1.4. Weapons personnel will be evaluated on a live intercept and/or an L/V/C air refueling mission and an ACT/DACT mission. **(T-3)** The SEE is responsible for making the determination as to whether briefed and conducted control activities fulfill live control requirements. The specific control events not evaluated in the live environment will be evaluated using simulation equipment if available. **(T-3)**

13.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all weapons duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q-, or U will be given to each non-critical area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 13.1. WDT Qualification Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Positional Equipment Checkout/Setup	
3	Console Operations and Positional Aids	
4	Communications Selection and Use	
5	Local Orientation	
6	INFOSEC/OPSEC	
7	COMSEC	Critical
8	Authentication Procedures	
9	Aircraft Identification	
10	Coordination	
11	Flight Safety	Critical
12	Emergency Procedures	Critical
13	Air-to-Air	
14	Air Refueling	
15	Radio/Telephone (R/T) Procedures	
16	Positional Changeover Brief	

Instructor only Areas (Only required for instructor qualified crewmembers)		
17	Instructional Ability	See Note
18	Briefings and Critiques	See Note
19	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

13.3. Area 1 – Mission Planning.

13.3.1. Q. Assisted the WD in mission planning. Mission planning was comprehensive and effective. Reviewed pertinent materials, factors and situations having a bearing on the mission.

13.3.2. Q-. Assisted the WD in mission planning. Mission planning was effective. Reviewed pertinent materials, factors and situations having a bearing on the mission. Committed errors or omissions that did not jeopardize mission effectiveness.

13.3.3. U. Failed to mission plan. Failed to review pertinent materials, factors and situations having a bearing on the mission. Committed errors or omissions that impacted or adversely impacted operations.

13.4. Area 2 – Positional Equipment Check-Out/Set-Up.

13.4.1. Q. Set-up and checked out status of console, communications and other operator tasked equipment to ensure operation in accordance with directives.

13.4.2. Q-. Set-up and checked out console, communications and other operator tasked equipment to ensure operation in accordance with directives. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

13.4.3. U. Failed to set-up and check out console, communications and other operator tasked equipment in accordance with directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.5. Area 3 – Console Displays and Positional Aids.

13.5.1. Q. Interpreted data, responded to prompts and initiated use of appropriate windows/buttons/controls to ensure console displays updated in accordance with directives. Effectively used and interpreted available positional aids.

13.5.2. Q-. Interpreted data, responded to prompts and initiated use of appropriate windows/buttons/controls to ensure console displays updated in accordance with directives. Used and interpreted available positional aids. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

13.5.3. U. Failed to interpret data, responded to prompts and initiate use of appropriate windows/buttons/controls to ensure console displays updated in accordance with directives. Failed to use and interpret available positional aids. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.6. Area 4 – Communication Selection and Use.

13.6.1. Q. Selected and operated communications equipment including primary, secondary and secure systems in accordance with performance capabilities, mission tasking and directives.

13.6.2. Q-. Selected and operated communications equipment including primary, secondary and secure systems in accordance with performance capabilities, mission tasking and directives. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

13.6.3. U. Failed to select and operate communications equipment including primary, secondary and secure systems in accordance with performance capabilities, mission tasking and directives. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.7. Area 5 – Local Orientation.

13.7.1. Q. Demonstrated knowledge of local procedures, airspace structure, and geographical fixes.

13.7.2. Q-. Demonstrated knowledge of local procedures, airspace structure, and geographical fixes. Committed errors or omissions which did not adversely impact mission accomplishment or safety.

13.7.3. U. Failed to demonstrate knowledge of local procedures, airspace structure, and geographical fixes. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.8. Area 6 – Information Security/Operations Security (INFOSEC/OPSEC).

13.8.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

13.8.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

13.8.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.9. Area 7 – COMSEC. (CRITICAL)

13.9.1. Q. Used and controlled COMSEC in accordance with established procedures.

13.9.2. U. Failed to use and control COMSEC in accordance with established procedures.

13.10. Area 8 – Authentication Procedures.

13.10.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

13.10.3. U. Committed errors or omissions that jeopardized mission accomplishment.

13.11. Area 9 – Aircraft ID.

13.11.1. Q. Assisted the WD in identifying assigned aircraft using pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check- in using radar or IFF/SIF displays.

13.11.2. Q-. Assisted in identifying assigned aircraft using pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check-in using radar scope interpretation. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

13.11.3. U. Failed to assist the WD in identifying assigned aircraft using pilot reported position, IFF/SIF returns or pilot maneuvering. Failed to accomplish ID after aircraft radio check-in using radar or IFF/SIF displays. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.12. Area 10 – Coordination.

13.12.1. Q. Coordinated and reported all requirements, mission changes, and equipment discrepancies/limitations in accordance with directives.

13.12.2. Q-. Coordinated and reported requirements, mission changes, and equipment discrepancies/limitations in accordance with directives. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

13.12.3. U. Failed to coordinate and report requirements, mission changes, equipment discrepancies/limitations in accordance with directives. Committed errors or omissions that adversely affected mission accomplishment or safety.

13.13. Area 11 – Flight Safety. (CRITICAL)

13.13.1. Q. Effectively applied all flight safety procedures in accordance with directives. Assisted WD with accurate transmission of all required safety calls (i.e. traffic advisories, ATC clearances, airspace calls). Knowledgeable of and assisted WD with effectively applying "TERMINATE" and "KNOCK-IT-OFF" criteria.

13.13.2. U. Lacked critical knowledge or failed to apply flight safety requirements in accordance with directives. Failed to assist WD by provide timely and accurate traffic advisories, airspace calls, or ATC clearances. Failed to assist WD with effectively applying "TERMINATE" and "KNOCK-IT-OFF" procedures. Committed errors or omissions that adversely impacted mission accomplishment or safety.

13.14. Area 12 – Emergency Procedures. (CRITICAL)

13.14.1. Q. Demonstrated thorough knowledge of emergency procedures. Recognized emergency situations and implemented emergency procedures in accordance with directives.

13.14.2. U. Failed to demonstrate adequate knowledge of emergency procedures. Failed to recognize emergency situations and implement emergency procedures in accordance with directives. Committed errors or omissions that adversely impacted mission accomplishment or safety.

13.15. Area 13 – Air-to-Air.

13.15.1. Q. Assisted WD with essential information in an approved, briefed or requested format. Provided timely and accurate target information. Assisted WD with threat calls to appropriate aircraft in accordance with AFTTP 3-1. Adhered to mission brief. Ensured no unreported threats engaged friendly aircraft.

13.15.2. Q-. Assisted WD with essential information, target information and threat calls to aircraft as requested with errors or omissions that did not jeopardize mission accomplishment or safety.

13.15.3. U. Failed to assist WD with essential information in a timely or accurate manner. Failed to assist WD with making threat calls as required. Failed to adhere to the mission brief. Committed errors or omissions that adversely impacted mission accomplishment or safety.

13.16. Area 14 – Air Refueling Positional.

13.16.1. Q. Assisted WD with providing guidance to all aircraft, including close control vectors and direction of turn, altitudes and speeds as required, and adjusted commands as necessary to ensure a timely and successful rendezvous. Made all required safety calls in accordance with AFI 11-214 and published local directives.

13.16.2. Q-. Assisted WD with providing guidance to all aircraft, including close control vectors and direction of turn, altitudes and speeds as required. Made all required safety calls in accordance with AFI 11-214 and published local directives. Committed errors or omissions that did not jeopardize mission accomplishment or safety, but may have impacted/delayed a timely rendezvous.

13.16.3. U. Failed to assist WD with providing guidance to aircraft, including close control vectors and directions of turn, altitudes or speed, to ensure a timely and successfully positioned rendezvous. Failed to adjust commands as required. Failed to make all required safety calls in accordance with AFI 11-214 and published local directives. Committed errors or omissions that adversely impacted mission accomplishment or safety.

13.17. Area 15 – R/T Procedures.

13.17.1. Q. Employed R/T procedures in accordance with directives and local standard operating procedures.

13.17.2. Q-. Employed R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

13.17.3. U. Failed to employ R/T procedures in accordance with directives and local standard operating procedures. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.18. Area 16 – Positional Changeover Brief.

13.18.1. Q. Briefed the relieving AWO/WD/WDT or SD/SDT on the current operational situation in accordance with squadron standards and positional aids.

13.18.2. Q-. Briefed the relieving AWO/WD/WDT or SD/SDT on the current operational situation. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

13.18.3. U. Failed to brief the relieving AWO/WD/WDT or SD/SDT on the current operational situation. Committed errors or omissions that jeopardized mission accomplishment or safety.

13.19. ADDITIONAL INSTRUCTOR Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

13.19.1. Area 17 – Instructional Ability.

13.19.2. Area 18 – Briefings and Critiques.

13.19.3. Area 19 – Demonstration and Performance.

Chapter 14

KOREAN THEATER AIR CONTROL SYSTEM MISSION CREW COMMANDER/MCC TECHNICIAN QUALIFICATION EVALUATIONS

14.1. Purpose. This chapter, in conjunction with AFI 13-1 STAN/EVAL Vol 2, gives 621 ACS assigned SEE procedures and criteria to use during Korean Theater Air Control System MCC/MCCT evaluations. Adherence to these procedures and criteria ensures an accurate assessment of the proficiency and capabilities of crewmembers.

14.2. Rating Guidance. Rating guidance for SEEs is provided in AFI 13-1 STAN/EVAL Vol 2, and in this chapter for conducting all evaluations. All area ratings are based on a three-level rating system (i.e., Q, Q-, or U) described below. Critical grading area ratings are based on a two-level rating system (i.e., Q or U) described below.

14.2.1. A Qualified area grade (Q) is the desired level of performance. The examinee demonstrates a satisfactory level of knowledge of all required information, performed duties within the prescribed tolerances and accomplishes the assigned mission with no discrepancies.

14.2.2. A Qualified-minus area grade (Q-) indicates the examinee is qualified to perform the assigned area tasks, but requires a written debriefed comment or additional training as determined by the SEE. Deviations from established standards must not exceed the prescribed Q- tolerances or jeopardize flight safety. **(T-3)**

14.2.3. An Unqualified area grade (U) is given for performance outside allowable parameters or deviations from prescribed procedures that jeopardized mission accomplishment or compromised flight safety. An examinee receiving an area grade of “U” normally requires additional training. When, in the judgment of the SEE, additional training will not constructively improve examinee performance, it is not required, but the SEE will thoroughly debrief the examinee. **(T-3)**

14.3. Evaluation Methods. The primary method of determining an examinee's level of knowledge and proficiency is observation of job performance on live missions. When conditions such as mission availability preclude evaluation of a particular event on a live mission, it may be evaluated by an alternate method (i.e., mission simulator, verbally or academic ground evaluation scenario) if allowed in the evaluation requirements section of this chapter. SEEs will make every effort to evaluate all required areas on a live mission before resorting to alternatives. **(T-3)** Document alternate evaluation methods for each area in the Mission Description section of the AF Form 8. The questioning of examinees during the positional portion of the evaluation should be limited to items not easily determined by observation and related to the scenario being employed for the evaluation.

14.4. Critical Areas. Critical grading areas are defined as events that require a degree of knowledge and proficiency essential for safety and mission accomplishment. 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.

14.5. Evaluation Requirements. Examinee must perform all areas specified in this chapter for a complete positional evaluation. **(T-3)** Evaluation requirements are outlined in [Table 14.1](#)

14.5.1. The initial qualification Evaluation (IQE)/RQE positional evaluation will demonstrate the examinee's ability to operate mission systems and apply local theater guidance to effectively accomplish the mission. **(T-3)**

14.5.1.1. The examinee will complete a written examination derived from the MAJCOM Master Question File and unit derived Local Operating Procedures. **(T-3)**

14.5.1.2. The examinee will perform duties as the MCC/MCCT during live daily flying operations to support evaluation objectives. **(T-3)** The SEE will determine whether the extent of live flying activity is sufficient for evaluation purposes. **(T-3)** The evaluation may continue on a subsequent day to fully meet evaluation requirements. Area 13, Daily Flying Operations, must be accomplished live. **(T-3)** Other areas may be accomplished by alternate methods.

14.5.2. Upon completion of mission qualification training (MQT), Stan/Eval will administer a 25-question, written mission qualification evaluation (MQE). **(T-3)** The passing score is 85 percent. Stan/Eval will maintain at least two different tests on file or utilize a computer-generated testing program. **(T-3)** A positional evaluation is not required upon completion of MQT.

14.5.3. Upon successful completion of the MQE, Stan/Eval will place examinee into CMR status. **(T-3)**

14.6. Evaluation Objective. The examinee must demonstrate the ability to accomplish all MCC/MCCT duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 14.1. MCC/MCCT Evaluation Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefing and debriefing	
3	Positional Equipment Checkout/Setup	
4	Console Operations and Positional Aids	
5	Communications Selection and Use	
6	Local Orientation	
7	INFOSEC/OPSEC	
8	COMSEC	Critical
9	Authentication Procedures	
10	Battle Management	MCC Only
11	Coordination	
12	Emergency Procedures	Critical
13	Daily Flying Operations	Critical / MCC
14	Air Defense Operations	MCC Only
15	Operational Systems	
16	Documentation	
Instructor only Areas (Only required for instructor qualified crewmembers)		
17	Instructional Ability	See Note

18	Briefings and Critiques	See Note
19	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

14.7. Area 1 – Mission Planning.

14.7.1. Q. Planned mission activities by determining mission taskings. Clearly defined mission overview and objectives. Solicited feedback to check understanding of mission requirements. Directed the crew to formulate plans to accomplish mission taskings, obtained and analyzed status of mission equipment, and determined the impact on mission objectives. Thoroughly critiqued plans to identify potential problem areas. Checked understanding of possible contingencies. Directed mission planning briefing according to directives. Read and initialed for all items in the Flight Crew Information File (FCIF) and read files.

14.7.2. Q-. Directed and performed mission planning as described in with errors or omissions that did not jeopardize mission accomplishment.

14.7.3. U. Directed and performed mission planning as described in with errors or omissions that jeopardized mission accomplishment. Failed to read and initial for all items in the FCIF and read files.

14.8. Area 2 – Briefing and Debriefing.

14.8.1. Q. Directed all required briefings and debriefings and extracted or provided all necessary information. Directed briefings and debriefings in an organized, logical sequence. Ensured the crew was thoroughly briefed on all aspects of the mission. Provided positive and negative feedback. Provided specific, objective, non-threatening feedback on team and individual performance. Provided specific ways to correct errors. Asked for reactions and inputs from others. Recapped key points and compared mission results with objectives.

14.8.2. Q-. Directed all required briefings and debriefings. Extracted or provided information, directed briefings and debriefings, and ensured the crew was thoroughly briefed on all aspects of the mission with errors or omissions that did not jeopardize mission accomplishment

14.8.3. U. Failed to direct required briefings and debriefings. Extracted or provided information or directed briefings and debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission.

14.9. Area 3 – Positional Equipment Check-Out and Set-Up.

14.9.1. Q. Set up and checked out console, communications and other operator-tasked equipment to ensure operation was in accordance with directives.

14.9.2. Q-. Set up and checked out console, communications and other operator-tasked equipment to ensure operation was in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

14.9.3. U. Lacked critical knowledge of console, communications and other operator-tasked equipment. Failed to verify operational status of equipment or failed to note or report equipment discrepancies. Mission accomplishment or safety was or been adversely affected.

14.10. Area 4 – Console Operations and Positional Aids.

14.10.1. Q. Interpreted/initiated use of appropriate windows and buttons. Ensured update of data for console displays and responded to prompts in accordance with directives. Effectively used and interpreted available positional aids.

14.10.2. Q-. Interpreted/initiated use of appropriate windows and buttons. Ensured update of data for console displays, responded to prompts in accordance with directives and effectively used and interpreted available positional aids in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

14.10.3. U. Failed to interpret/initiate use of appropriate windows and buttons, and/or failed to ensure update of data for console displays, or respond to prompts in accordance with directives with errors or omissions which jeopardize mission accomplishment or safety.

14.11. Area 5 – Communication Selections and Use.

14.11.1. Q. Selected and operated communications equipment to include primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives.

14.11.2. Q-. Selected and operated communications equipment to include primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives with errors or omissions which did not jeopardize mission accomplishment or safety.

14.11.3. U. Examinee lacked critical knowledge to effectively utilize dedicated communication systems. Made major omissions or errors. Mission accomplishment or safety was or been adversely affected.

14.12. Area 6 – Local Orientation.

14.12.1. Q. Demonstrated the required knowledge of local procedures, airspace structure, and geographical fixes.

14.12.2. Q-. Demonstrated the required knowledge of local procedures, airspace structure, and geographical fixes with errors or omission that did not jeopardize mission accomplishment or safety.

14.12.3. U. Failed to demonstrate adequate knowledge of local procedures, airspace structure, and geographical fixes. Mission accomplishment or safety was or could have been adversely impacted.

14.13. Area 7 – Information Security/Operations Security (INFOSEC/OPSEC).

14.13.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

14.13.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

14.13.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

14.14. Area 8 – COMSEC. (CRITICAL)

14.14.1. Q. Used and controlled COMSEC in accordance with established procedures.

14.14.2. U. Failed to use and control COMSEC in accordance with established procedures.

14.15. Area 9 – Authentication Procedures.

14.15.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

14.15.3. U. Unable to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that jeopardized mission accomplishment.

14.16. Area 10 – Battle Management. (MCC ONLY)

14.16.1. Q. Executed OPORDs/OPLANs in accordance with applicable directives. Directed employment of operations within the limitations and capabilities of assigned equipment. Interoperates with adjacent ground and airborne C2 elements of US and other host nation facilities. Ensured effective exchange of both voice and data link information. Planned, recognized and directed changes in levels of operations to meet unit tasking.

14.16.2. Q-. Performed errors or omissions which did not affect mission accomplishment or safety.

14.16.3. U. Failed to conduct “Battle Management.” Included significant errors or omissions that impacted mission accomplishment or safety.

14.17. Area 11 – Coordination.

14.17.1. Q. Coordinated and reported all requirements, mission changes, and equipment discrepancies and limitations in accordance with directives.

14.17.2. Q-. Coordinated and reported all requirements, mission changes, and equipment discrepancies and limitations in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

14.17.3. U. Failed to coordinate and report all requirements, mission changes, equipment discrepancies and limitations in accordance with directives. Mission accomplishment or safety was or could have been adversely affected.

14.18. Area 12 – Emergency Procedures. (CRITICAL)

14.18.1. Q. Demonstrated thorough knowledge of emergency procedures. Recognized emergency situations and implemented emergency procedures in accordance with directives.

14.18.2. U. Failed to demonstrate adequate knowledge of emergency procedures. Failed to recognize emergency situations and implement emergency procedures in accordance with directives. Mission accomplishment or safety was or been adversely affected.

14.19. Area 13 – Daily Flying Operations. (MCC ONLY) (CRITICAL)

14.19.1. Q. Effectively managed the local flying environment. Effectively monitored mission execution. Ensured flight safety.

14.19.2. U. Lacked critical knowledge of or could not effectively manage the local flying environment. Failed to adequately monitor mission execution or ensure flight safety. Mission accomplishment or safety was or been adversely affected.

14.20. Area 14 – Air Defense Operations. (MCC ONLY)

14.20.1. Q. Effectively applied established air defense procedures and concepts in accordance with directives.

14.20.2. Q-. Applied established air defense procedures and concepts in accordance with directives with errors, omissions, or delays that did not jeopardize mission accomplishment or safety of flight.

14.20.3. U. Lacked critical knowledge or failed to effectively apply established air defense procedures. Made crucial omissions and errors. Failed to conduct “Air Defense Operations” or included significant errors or omissions that impacted mission accomplishment or safety.

14.21. Area 15 – Operational Systems.

14.21.1. Q. Demonstrated thorough knowledge/application of dedicated computer/radar systems in accordance with applicable directives.

14.21.2. Q-. Demonstrated adequate knowledge/application of dedicated computer/radar systems in accordance with applicable directives with errors, omissions or delays that did not jeopardize mission accomplishment or safety.

14.21.3. U. Failed to demonstrate adequate knowledge/application of dedicated computer/radar systems in accordance with applicable directives. Mission accomplishment or safety was or been adversely affected.

14.22. Area 16 – Documentation.

14.22.1. Q. Demonstrated thorough knowledge in the use of operational logs/forms to support daily/contingency operations.

14.22.2. Q-. Demonstrated adequate knowledge in the use of operational logs/forms to support daily/contingency operations with errors, omissions or delays that did not jeopardize mission accomplishment or safety.

14.22.3. U. Failed to demonstrate thorough knowledge in the use of operational logs/forms to support daily/contingency operations. Mission accomplishment or safety was or been adversely affected.

14.23. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

14.23.1. Area 15 - Instructional Ability.

14.23.2. Area 16 - Briefings and Critiques.

14.23.3. Area 19 - Demonstration and Performance.

Chapter 15

KOREAN THEATER AIR CONTROL SYSTEM WD/AWO/SD QUALIFICATION EVALUATIONS

15.1. Purpose. This chapter, in conjunction with AFI 13-1 STAN/EVAL Vol 2, gives 621 ACS assigned SEE procedures and criteria to use during Korean Theater Air Control System WD, AWO, and SD evaluations. Adherence to these procedures and criteria ensures an accurate assessment of the proficiency and capabilities of crewmembers.

15.2. Rating Guidance. Rating guidance for SEEs is provided in AFI 13-1 STAN/EVAL Vol 2 and in this chapter for conducting all evaluations. All non-critical area ratings are based on a three-level rating system (i.e., Q, Q-, or U) described below. Critical grading area ratings are based on a two-level rating system (i.e., Q or U) described below.

15.2.1. A Qualified area grade (Q) is the desired level of performance. The examinee demonstrates a satisfactory level of knowledge of all required information, performed duties within the prescribed tolerances and accomplishes the assigned mission with no discrepancies.

15.2.2. A Qualified-minus area grade (Q-) indicates the examinee is qualified to perform the assigned area tasks, but requires a written debriefed comment or additional training as determined by the SEE. Deviations from established standards must not exceed the prescribed Q- tolerances or jeopardize flight safety. **(T-3)**

15.2.3. An Unqualified area grade (U) is given for performance outside allowable parameters or deviations from prescribed procedures that jeopardized mission accomplishment or compromised flight safety. An examinee receiving an area grade of “U” normally requires additional training. When, in the judgment of the SEE, additional training will not constructively improve examinee performance, it is not required, but the SEE will thoroughly debrief the examinee. **(T-3)**

15.3. Evaluation Methods. The primary method of determining an examinee's level of knowledge and proficiency is observation of job performance on live missions. When conditions such as mission availability preclude evaluation of a particular event on a live mission, it may be evaluated by an alternate method (i.e., mission simulator, verbally or academic ground evaluation scenario) if allowed in the evaluation requirements section of this chapter. SEEs will make every effort to evaluate all required areas on a live mission before resorting to alternatives. **(T-3)** Document alternate evaluation methods for each area in the Mission Description section of the AF Form 8. The questioning of examinees during the positional portion of the evaluation should be limited to items not easily determined by observation and related to the scenario being employed for the evaluation.

15.4. Critical Areas. Critical grading areas are defined as events that require a degree of knowledge and proficiency essential for safety and mission accomplishment. 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.

15.5. Evaluation Requirements. All areas specified in this chapter are required for a complete positional evaluation. **(T-3)** Evaluation requirements are outlined in [Table 15.1](#)

15.5.1. The IQE/RQE positional evaluation tests an individual's ability to operate equipment and integrate with the crew to accomplish a mission. An "SD Upgrade IQE" is defined as an evaluation given to a 621 ACS CMR AWO or a previously qualified SD from another MDS (at the SQ/DOs discretion), who has completed required SD training through the Chief of Operations Training. Positional evaluations for upgrade to SD will include all grading areas necessary to perform the supervisory role. **(T-3)** The SD evaluation will include weapons control supervision, air-to-air, check-in and air-refueling criteria. **(T-3)**

15.5.1.1. The examinee will complete an IQE written examination derived from the PACAF MQF and unit derived Local Operating Procedures. **(T-3)**

15.5.1.2. The examinee will perform duties as the WD/AWO or SD during live daily flying operations to support evaluation objectives. **(T-3)** The SEE will determine whether the extent of live flying activity is sufficient for evaluation purposes. **(T-3)** The evaluation may continue on a subsequent day to fully meet evaluation requirements. Area 19, Weapons Control Supervision (Critical) (SD Only), must be accomplished live. **(T-3)**

15.5.1.3. Evaluation requirements for the Air-to-Air portion of the qualification are to control a 2v2 or greater mission. This must be a two-scope, two-frequency control event and examinee must accomplish this event live. **(T-3)**

15.5.1.4. Evaluation requirements for the Air Refueling portion of the qualification are to simultaneously control two flights of receivers and the tanker. Examinee must demonstrate the ability to tactical two flights of receivers and the tanker. **(T-3)** Examinee must demonstrate the ability to tactically control both tanker and receiver for an effective rendezvous. **(T-3)** Due to operational constraints, this portion is normally accomplished in the simulator.

15.5.1.5. Evaluation requirements for the check-in portion of the qualification are to control five flights from check-in to check-out. The examinee must accomplish this as a live control event. **(T-3)**

15.5.2. Upon completion of MQT, Stan/Eval will administer a 25-question, written MQE. **(T-3)** The passing score is 85 percent. Stan/Eval will maintain at least two different tests on file or utilize a computer-generated test program. **(T-3)** A positional evaluation is not required upon completion of MQT.

15.5.3. Upon successful completion of the MQE, Stan/Eval will place examinee into CMR status. **(T-3)**

15.6. Evaluation Objective. The examinee must demonstrate the ability to accomplish all duties safely and effectively in accordance with technical orders and operations directives. **(T-3)** A rating of Q, Q- or U will be given to each area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 15.1. AWO/WD/SD Evaluation Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefing and debriefing	
3	Positional Equipment Checkout and Setup	

4	Console Operations and Positional Aids	
5	Communications Selection and Use	
6	Local Orientation	
7	INFOSEC/OPSEC	
8	Communications Security (COMSEC)	Critical
9	Authentication Procedures	
10	Aircraft Identification	
11	Coordination	
12	Flight Safety	Critical
13	Emergency Procedures	Critical
14	Air-to-Air	
15	Air Refueling	
16	Check-in	
17	Radio/Telephone (R/T) Proficiency	
18	Positional Changeover Brief	
19	Weapons Control Supervision (SD Only)	Critical
Instructor only Areas (Only required for instructor qualified crewmembers)		
20	Instructional Ability	See Note
21	Briefings and Critiques	See Note
22	Demonstration and Performance	See Note
Note: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

15.7. Area 1 – Mission Planning.

15.7.1. Q. Conducted mission planning that accounted for known mission requirements, limitations, and approved operating procedures in accordance with applicable directives. Clearly defined the mission overview. Checked all factors applicable to the mission (i.e. SPINS, ROE, ATO, lessons learned, and training requirements). Provided specific information on what needed to be done. Clearly defined mission goals. Solicited feedback to check understanding of mission requirements. Thoroughly critiqued plans to identify potential problem areas. Checked understanding of possible contingencies. Ensured communications setup met weapons mission needs. Read and initialed for all items in the FCIF and read files.

15.7.2. Q-. Directed and performed mission planning with errors or omissions that did not jeopardize mission accomplishment.

15.7.3. U. Directed and performed mission planning with errors or omissions that jeopardized mission accomplishment. Failed to read and initial for all items in the FCIF and read files.

15.8. Area 2 – Briefing and Debriefing.

15.8.1. Q. Directed or attended all required briefings and debriefings and extracted or provided all necessary information. Performed briefings and debriefings in an organized, logical sequence in accordance with applicable directives. Planned all areas necessary to conduct tasked mission(s) and conducted aircrew briefings and debriefings in accordance with AFI 11-214 and other directives. Provided positive and negative feedback. Provided

specific, objective, non-threatening feedback on team and individual performance. Provided specific ways to correct errors. Asked for reactions and inputs from others. Recapped key points and compared mission results with objectives.

15.8.2. Q-. Directed or attended all required briefings and debriefings. Extracted or provided information, directed briefings and debriefings, and ensured the Weapons Team was thoroughly briefed on all aspects of the mission with errors or omissions that did not jeopardize mission accomplishment.

15.8.3. U. Failed to direct or attend required briefings and debriefings. Failed to extract or provide information or directed briefings and debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the Weapons Team was thoroughly briefed on all aspects of the mission.

15.9. Area 3 – Positional Equipment Check-Out and Set-Up.

15.9.1. Q. Set up and checked out console, communications and other operator-tasked equipment to ensure operation was in accordance with directives.

15.9.2. Q-. Set up and checked out console, communications and other operator-tasked equipment to ensure operation was in accordance with directives with errors or omissions which did not jeopardized mission accomplishment or safety.

15.9.3. U. Lacked critical knowledge of console, communications and other operator-tasked equipment. Failed to verify operational status of equipment or failed to note or report equipment discrepancies. Mission accomplishment or safety was or could have been adversely affected.

15.10. Area 4 – Console Operations and Positional Aids.

15.10.1. Q. Interpreted and initiated use of appropriate windows and buttons. Ensured update of data for console displays, and responded to prompts in accordance with directives. Effectively used and interpreted available positional aids.

15.10.2. Q-. Interpreted and initiated use of appropriate windows and buttons. Ensured update of data for console displays, responded to prompts in accordance with directives and effectively used and interpreted available positional aids in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

15.10.3. U. Failed to interpret or initiate use of appropriate windows and buttons. Failed to ensure update of data for console displays, or respond to prompts in accordance with directives with errors or omissions which jeopardize mission accomplishment or safety.

15.11. Area 5 – Communication Selections and Use.

15.11.1. Q. Selected and operated communications equipment to include primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives.

15.11.2. Q-. Selected and operated communications equipment to include primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives with errors or omissions which did not jeopardize mission accomplishment or safety.

15.11.3. U. Examinee lacked critical knowledge to effectively utilize dedicated communication systems. Made major omissions or errors. Mission accomplishment or safety was or been adversely affected.

15.12. Area 6 – Local Orientation.

15.12.1. Q. Demonstrated the required knowledge of local procedures, airspace structure, and geographical fixes.

15.12.2. Q-. Demonstrated the required knowledge of local procedures, airspace structure, and geographical fixes with errors or omission which did not jeopardize mission accomplishment or safety.

15.12.3. U. Failed to demonstrate adequate knowledge of local procedures, airspace structure, and geographical fixes. Mission accomplishment or safety was or been adversely impacted.

15.13. Area 7 - Information Security/Operations Security (INFOSEC/OPSEC).

15.13.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

15.13.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

15.13.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

15.14. Area 8 – COMSEC. (CRITICAL)

15.14.1. Q. Used and controlled COMSEC in accordance with established procedures.

15.14.2. U. Failed to use and control COMSEC in accordance with established procedures.

15.15. Area 9 – Authentication Procedures.

15.15.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

15.15.3. U. Unable to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that jeopardized mission accomplishment.

15.16. Area 10 – Aircraft ID.

15.16.1. Q. Identified assigned aircraft employing pilot reported position, IFF/SIF returns or pilot maneuvering. Accomplished ID after aircraft radio check-in using radar scope interpretation.

15.16.2. Q-. Committed errors or omissions while identifying assigned aircraft employing pilot reported position, IFF/SIF returns or pilot maneuvering and accomplished ID after aircraft radio check-in using radar or IFF/SIF displays. Mission accomplishment or safety was not jeopardized.

15.16.3. U. Lacked critical knowledge or could not effectively apply procedures and techniques used for aircraft ID. Actions resulted in confusion, delay or inability to assume control within a timely manner, or an unsafe situation. Mission accomplishment or safety was or been adversely affected.

15.17. Area 11 – Coordination.

15.17.1. Q. Coordinated and reported all requirements, mission changes, and equipment discrepancies and limitations in accordance with directives.

15.17.2. Q-. Coordinated and reported all requirements, mission changes, and equipment discrepancies and limitations in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

15.17.3. U. Failed to coordinate and report all requirements, mission changes, equipment discrepancies and limitations in accordance with directives. Lack of teamwork adversely affected mission accomplishment or safety.

15.18. Area 12 – Flight Safety. (CRITICAL)

15.18.1. Q. Effectively applied all flight safety procedures in accordance with directives. Accurately transmitted all required safety calls (i.e. traffic advisories, ATC clearances, airspace calls). Knowledgeable of and effectively applied “TERMINATE” and “KNOCK-IT-OFF” criteria.

15.18.2. U. Lacked critical knowledge or failed to apply flight safety requirements in accordance with directives. Failed to provide timely and accurate traffic advisories, airspace calls or ATC clearances. Failed to effectively apply “TERMINATE” and “KNOCK-IT-OFF” procedures. Mission accomplishment or safety was or been adversely affected.

15.19. Area 13 – Emergency Procedures. (CRITICAL)

15.19.1. Q. Demonstrated thorough knowledge of emergency procedures. Recognized emergency situations and implemented emergency procedures in accordance with directives.

15.19.2. U. Failed to demonstrate adequate knowledge of emergency procedures. Failed to recognize emergency situations and implement emergency procedures in accordance with directives. Mission accomplishment or safety was or been adversely affected.

15.20. Area 14 – Air-to-Air.

15.20.1. Q. Provided essential information in an approved, briefed or requested format. Provided timely and accurate target information. Made threat calls to appropriate aircraft in accordance with AFTTP 3-1. Adhered to mission brief. Ensured no unreported threats engaged friendly aircraft.

15.20.2. Q-. Provided essential information, target information and threat calls to aircraft as requested with errors or omissions that did not jeopardize mission accomplishment or safety.

15.20.3. U. Failed to provide essential information in a timely or accurate manner. Failed to make threat calls as required. Failed to adhere to the mission brief. Friendly aircraft were engaged by unreported threats. Mission accomplishment or safety was or been adversely affected.

15.21. Area 15 – Air Refueling.

15.21.1. Q. Provided tactical control to all aircraft. Prioritized refueling activity. Adjusted commands as necessary to ensure a timely and successful rendezvous.

15.21.2. Q-. Provided tactical control to all aircraft. Prioritized refueling activity. Adjusted commands as necessary to ensure a timely and successful rendezvous with errors or omissions that did not jeopardize mission accomplishment or safety but may have impacted or delayed a timely rendezvous.

15.21.3. U. Failed to provide tactical control to all aircraft. Did not prioritize refueling activity. Failed to adjust commands as required.

15.22. Area 16 – Check-in.

15.22.1. Q. Provided guidance to all aircraft in accordance with published local directives. Transmissions were clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives as applicable.

15.22.2. Q-. Provided guidance to all aircraft in accordance with published local directives. Transmissions were clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives when applicable, with errors or omission that did not jeopardize mission accomplishment or safety.

15.22.3. U. Failed to demonstrate thorough knowledge or effective application of appropriate R/T brevity code words or communication procedures. Failed to make all required safety calls in accordance with AFI 11-214 and published local directives. Transmissions were excessive, incomplete, broken, clipped, and repetitious or contained extraneous information. Mission accomplishment or safety was or been adversely affected.

15.23. Area 17 – Radio/Telephone (R/T) Proficiency.

15.23.1. Q. Effectively applied appropriate R/T brevity code words and communication procedures. Transmissions were clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives as applicable.

15.23.2. Q-. Applied appropriate R/T brevity code words and communications. Transmissions were clear, concise, accurate and in accordance with AFTTP 3-1, AFI 11-214, and local directives when applicable, with errors or omission that did not jeopardize mission accomplishment or safety.

15.23.3. U. Failed to demonstrate thorough knowledge or effective application of appropriate R/T brevity code words or communication procedures. Transmissions were excessive, incomplete, broken, clipped, and repetitious or contained extraneous information. Mission accomplishment or safety was or been adversely affected.

15.24. Area 18 – Positional Changeover Brief.

15.24.1. Q. Briefed the relieving AWO/WD or SD on the current operational situation in accordance with squadron standards and positional aids.

15.24.2. Q-. Briefed the relieving AWO/WD or SD on the current operational situation. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

15.24.3. U. Failed to brief the relieving AWO/WD or SD on the current operational situation. Committed errors or omissions that jeopardized mission accomplishment or safety.

15.25. Area 19 – Weapons Control Supervision. (SD ONLY) (CRITICAL)

15.25.1. Q. Effectively managed the local flying environment, adequately monitored mission execution, provided timely and effective direction to control team, and ensured flight safety. Effectively scheduled weapons teams.

15.25.2. U. Failed to effectively manage the local flying environment, adequately monitor mission execution, failed to provide timely and adequate direction to control team, and/or did not take timely actions to ensure flight safety. Failed to effectively schedule weapons teams to control all missions. Flying safety and/or mission accomplishment was or been jeopardized.

15.26. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

15.26.1. Area 20 – Instructional Ability.

15.26.2. Area 21 – Briefings and Critiques.

15.26.3. Area 22 – Demonstration and Performance.

Chapter 16

KOREAN THEATER AIR CONTROL SYSTEM DATA SYSTEM TECHNICIAN QUALIFICATION EVALUATIONS

16.1. Purpose. This chapter, in conjunction with AFI 13-1 STAN/EVAL Vol 2, gives 621 ACS assigned SEE procedures and criteria to use during Korean Theater Air Control System Data System Technician (DST) evaluations. Adherence to these procedures and criteria ensures an accurate assessment of the proficiency and capabilities of crewmembers.

16.2. Rating Guidance. Rating guidance for SEEs is provided in AFI 13-1 STAN/EVAL Vol 2, and in this chapter for conducting all evaluations. All non-critical area ratings are based on a three level rating system (i.e., Q, Q-, and U) described below. Critical grading area ratings are based on a two level rating system (i.e., Q or U) described below.

16.2.1. A Qualified area grade (Q) is the desired level of performance. The examinee demonstrates a satisfactory level of knowledge of all required information, performed duties within the prescribed tolerances and accomplishes the assigned mission with no discrepancies.

16.2.2. A Qualified-minus area grade (Q-) indicates the examinee is qualified to perform the assigned area tasks, but requires a written debriefed comment or additional training as determined by the SEE. Deviations from established standards must not exceed the prescribed Q- tolerances or jeopardize flight safety. **(T-3)**

16.2.3. An Unqualified area grade (U) is given for performance outside allowable parameters or deviations from prescribed procedures that jeopardized mission accomplishment or compromised flight safety. An examinee receiving an area grade of “U” normally requires additional training. When, in the judgment of the SEE, additional training will not constructively improve examinee performance, it is not required, but the SEE will thoroughly debrief the examinee. **(T-3)**

16.3. Evaluation Methods. The primary method of determining an examinee's level of knowledge and proficiency is observation of job performance on live missions. When conditions such as mission availability preclude evaluation of a particular event on a live mission, it may be evaluated by an alternate method (i.e., mission simulator, verbally or academic ground evaluation scenario) if allowed in the evaluation requirements section of this chapter. SEEs will make every effort to evaluate all required areas on a live mission before resorting to alternatives. **(T-3)** Document alternate evaluation methods for each area in the Mission Description section of the AF Form 8. The questioning of examinees during the positional portion of the evaluation should be limited to items not easily determined by observation and related to the scenario being employed for the evaluation.

16.4. Critical Areas. Critical grading areas are defined as events that require a degree of knowledge and proficiency essential for safety and mission accomplishment. 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.

16.5. Evaluation Requirements. All areas specified in this chapter are required for a complete positional evaluation. Evaluation requirements are outlined in [Table 16.1](#)

16.5.1. The IQE/RQE positional evaluation demonstrates the examinee's ability to operate mission systems and apply local theater guidance to effectively accomplish the mission.

16.5.1.1. The examinee will complete a written examination derived from the MAJCOM MQF and unit derived Local Operating Procedures. **(T-3)**

16.5.1.2. The examinee will perform duties as the DST during daily flying operations to support evaluation objectives. **(T-3)** The SEE determines whether the extent of mission activity is sufficient for evaluation purposes. The evaluation may continue on subsequent days to fully meet evaluation requirements.

16.5.2. Upon completion of MQT, Stan/Eval will administer a 25-question, written MQE. **(T- 3)** The passing score is 85 percent. Stan/Eval will maintain at least two different tests on file or utilize a computer-generated testing program. **(T-3)** A positional evaluation is not required upon completion of MQT.

16.5.3. Upon successful completion of the MQE, Stan/Eval will place examinee into CMR status. **(T-3)**

16.6. Evaluation Objective. The examinee must demonstrate the ability to accomplish all DST duties safely and effectively in accordance with technical orders and operations directives **(T-3)**. A rating of Q, Q- or U will be given to each area. **(T-2)** Critical areas are rated Q or U. **(T-2)**

Table 16.1. Evaluation Criteria.

Area	Title	Special Identifier
1	Mission Planning	
2	Briefing and debriefing	
3	Positional Equipment Checkout and Setup	
4	Console Operations and Positional Aids	
5	Communications Selection and Use	
6	Local Orientation	
7	INFOSEC/OPSEC	
8	COMSEC	Critical
9	Authentication Procedures	
10	Coordination	
11	Data Inputs	Critical
12	Recognizable Air Picture	
Instructor only Areas (Only required for instructor qualified crewmembers)		
13	Instructional Ability	See Note
14	Briefings and Critiques	See Note
15	Demonstration and Performance	See Note
Note: A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.		

16.7. Area 1 – Mission Planning.

16.7.1. Q. Planned mission activities by determining mission taskings. Solicited feedback to check understanding of mission requirements. Assisted the crew in formulating plans to accomplish mission taskings. Thoroughly critiqued plans to identify potential problem areas.

Checked understanding of possible contingencies. Read and initialed for all items in the FCIF and read files.

16.7.2. Q-. Conducted mission planning with errors or omissions that did not jeopardize mission accomplishment.

16.7.3. U. Conducted mission planning with errors or omissions that jeopardized mission accomplishment. Failed to read and initial for all items in the FCIF and read files.

16.8. Area 2 – Briefing and Debriefing.

16.8.1. Q. Attended all required briefings and debriefings and extracted or provided all necessary information. Provided positive and negative feedback. Provided specific, objective, non- threatening feedback on team and individual performance. Provided specific ways to correct errors. Asked for reactions and inputs from others.

16.8.2. Q-. Attended all required briefings and debriefings. Extracted or provided all necessary information with errors or omissions that did not jeopardize mission accomplishment.

16.8.3. U. Failed to attend required briefings and debriefings. Extracted or provided all necessary information with errors or omissions that jeopardized mission accomplishment.

16.9. Area 3 – Positional Equipment Check-Out and Set-Up.

16.9.1. Q. Set up and checked out of status for console, communications and other operator-tasked equipment to ensure operation was in accordance with directives.

16.9.2. Q-. Set up and checked out of console, communications and other operator-tasked equipment to ensure operation was in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

16.9.3. U. Lacked critical knowledge of console, communications and other operator-tasked equipment functions and controlled of positional equipment. Failed to verify operational status of equipment or failed to note or report equipment discrepancies. Mission accomplishment or safety was or could have been adversely affected.

16.10. Area 4 – Console Operations and Positional Aids.

16.10.1. Q. Interpreted and initiated use of appropriate windows and buttons. Ensured update of data for console displays, and responded to prompts in accordance with directives. Effectively used and interpreted available positional aids.

16.10.2. Q-. Interpreted and initiated use of appropriate windows and buttons. Ensured update of data for console displays, and responded to prompts in accordance with directives and effectively used and interpreted available positional aids in accordance with directives with errors or omissions which did not jeopardized mission accomplishment or safety.

16.10.3. U. Failed to interpret or initiate use of appropriate windows and buttons. Failed to ensure update of data for console displays, or respond to prompts in accordance with directives with errors or omissions which jeopardize mission accomplishment or safety.

16.11. Area 5 – Communication Selections and Use.

16.11.1. Q. Selected and operated communications equipment to include primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives.

16.11.2. Q-. Selected and operated communications equipment to include primary, secondary, and secure systems in accordance with performance capabilities, mission tasking and directives with errors or omissions which did not jeopardize mission accomplishment or safety.

16.11.3. U. Examinee lacked critical knowledge to effectively utilize dedicated communication systems. Made major omissions or errors. Mission accomplishment or safety was or been adversely affected.

16.12. Area 6 – Local Orientation.

16.12.1. Q. Demonstrated the required knowledge of local procedures, airspace structure and geographical fixes.

16.12.2. Q-. Demonstrated the required knowledge of local procedures, airspace structure and geographical fixes with errors or omission which did not jeopardize mission accomplishment or safety.

16.12.3. U. Failed to demonstrate adequate knowledge of local procedures, airspace structure and geographical fixes. Mission accomplishment or safety was or been adversely impacted.

16.13. Area 7 – Information Security/Operations Security (INFOSEC/OPSEC).

16.13.1. Q. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications.

16.13.2. Q-. Employed INFOSEC and maintained OPSEC controls in accordance with appropriate publications. Committed errors or omissions that did not adversely affect mission accomplishment or safety.

16.13.3. U. Failed to employ INFOSEC and maintain OPSEC controls in accordance with appropriate publications. Committed errors or omissions that jeopardized mission accomplishment or safety.

16.14. Area 8 – COMSEC. (CRITICAL)

16.14.1. Q. Used and controlled COMSEC in accordance with established procedures.

16.14.2. U. Failed to use and control COMSEC in accordance with established procedures.

16.15. Area 9 – Authentication Procedures.

16.15.1. Q. Authenticated voice transmission within time limits specified on authenticators.

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

16.15.3. U. Unable to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that jeopardized mission accomplishment.

16.16. Area 10 – Coordination.

16.16.1. Q. Coordinated and reported all requirements, mission changes, and equipment discrepancies and limitations in accordance with directives. All necessary information passed to the appropriate crewmember or external agency in a timely manner.

16.16.2. Q-. Coordinated and reported all requirements, mission changes, and equipment discrepancies and limitations in accordance with directives with errors or omissions which did not jeopardize mission accomplishment or safety.

16.16.3. U. Failed to coordinate and report all requirements, mission changes, equipment discrepancies and limitations to the appropriate crewmember or external agency. Lack of teamwork adversely affected mission accomplishment or safety.

16.17. Area 11 – Data Inputs. (CRITICAL)

16.17.1. Q. Recognized, reported, and took action to correct degraded and erroneous data inputs.

16.17.2. U. Failed to recognize, report, and take action to correct degraded and erroneous data inputs. Mission accomplishment or safety was or been adversely affected.

16.18. Area 12 – Recognizable Air Picture.

16.18.1. Q. Monitored the recognizable air picture and took action to ensure optimum air picture is maintained in accordance with directives.

16.18.2. Q-. Monitored the recognizable air picture and took action to ensure optimum air picture is maintained in accordance with directives with errors or omissions that did not jeopardize mission accomplishment or safety.

16.18.3. U. Failed to monitor the recognizable air picture and take action to ensure optimum air picture is maintained in accordance with directives. Mission accomplishment or safety was or been adversely affected.

16.19. Additional Instructor Areas. The following areas are applicable to periodic evaluations of instructors. Specific criteria are included in [paragraph 2.3](#), [paragraph 2.4](#), and [paragraph 2.5](#) of this publication.

16.19.1. Area 13 – Instructional Ability.

16.19.2. Area 14 – Briefings and Critiques.

16.19.3. Area 15 – Demonstration and Performance.

JOSEPH T. GUASTELLA, Lt Gen, USAF
Deputy Chief of Staff, Operations

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

ACFOI 13-1, Tactical Control Operations Team (TCOT) Crew Employment Standards

DAFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, 8 March 2007

DAFPD 13-1, *Command and Control Enterprise (C2 Enterprise)*, 6 August 2012

AFI 11-214, *Air Operations Rules and Procedures*, 8 July 2020

AFI 11-215, *USAF Flight Manuals Program (FMP)*, 22 December 2008

AFI 13-1, *Standardization/Evaluation Volume 2, Ground Command and Control Systems Standardization/Evaluation Program-Organization and Administration*, 21 July 2015

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

AFTTP 3-1, *General Planning*, 15 July 2016

DAFI 33-360, *Publications and Forms Management*, 1 December 2015

Privacy Act of 1974 authorized by Title 10 United States Code, Section 9013, *Secretary of the Air Force*

Prescribed Forms

None

Adopted Forms

AF Form 8, *Certificate of Aircrew Qualification*

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

ACC—Air Combat Command

ACF—Air Control Flight

ACO—Airspace Control Order

ACS—Air Control Squadron

ACT—Air Combat Training

ADS—Air Defense Squadron

AFI—Air Force Instruction

AFPD—Air Force Policy Directive

AFSC—Air Force Specialty Code

ANG—Air National Guard

AO—Area of Operations
AOR—Area of Responsibility
ASO—Air Surveillance Officer
AST—Air Surveillance Technician
ATC—Air Traffic Control
ATO—Air Tasking Order
AWO—Air Weapons Officer
BMC—Basic Mission Capable
BQ—Basic Qualified
C2—Command and Control
CAP—Combat Air Patrol
CC—Commander
CMR—Combat Mission Ready
COMSEC—Communications Security
CONPLAN—Contingency Plan
CONUS—Continental United States
DACT—Dissimilar Air Combat Training
DST—Data Systems Technician
EA—Electronic Attack
EOB—Enemy Order of Battle
EP—Electronic Protection
EQ—Exceptionally Qualified
FCIF—Flight Crew Information File
HQ—Headquarters
HHQ—Higher Headquarters
ICO—Interface Control Officer
ICT—Interface Control Technician
ID—Identification
IFF—Identification Friend or Foe
INFOSEC—Information Security
IQE—Initial Qualification Evaluation
ITO—Integrated Tasking Order

JASDF—Japanese Air Self Defense Forces
LOA—Letters of Agreement
MAJCOM—Major Command
MCC—Mission Crew Commander
MEDEVAC—Medical Evacuation
MQE—Mission Qualification Evaluation
MQF—Master Question File
MQT—Mission Qualification Training
MSN—Mission
N/A—Not Applicable
NGB—National Guard Bureau
nm—Nautical Mile
OIF—Operations Information File
OPORD—Operations Order
OPR—Office of Primary Responsibility
OPSEC—Operations Security
PACAF—Pacific Air Forces
PR—Personnel Recovery
QC—Quality Control
QUAL—Qualification
R/T—Radio/Telephone
ROE—Rules of Engagement
RQE—Requalification Evaluation
SAR—Search and Rescue
SD—Senior Director
SEE—Standardization/Evaluation Examiner
SIF—Selective Identification Feature
SPINS—Special Instructions
Stan/Eval—Standardization and Evaluation
TBM—Theater Ballistic Missile
TCOT—Tactical Control Operations Team
TI—Tactical Intercept

WD—Weapons Director

WX—Weather

Terms

Combat Mission Ready (CMR)—The status of individuals who successfully complete IQT and MQT, pass INIT QUAL and MSN, comply with Continuation Training (CT) requirements, and are assigned to a unit with a primary combat mission.

Lead Command—Lead command designation establishes advocacy for weapon systems during their life cycle and clarifies responsibilities for all using and supporting organizations. The designated lead command provides a primary input into the process of developing and maintaining a force structure with a balance of complementary capabilities. For this document, ACC is the lead command.

Positional Evaluation—This is the portion of a qualification evaluation that covers on—position duties, actions, and responsibilities.

Periodic or Qualification Evaluation—Qualifies a crewmember to perform the duties of a particular crew position in the specified MDS. Conduct this written and/or positional evaluation to check an individual's proficiency in performing operations duties or to let an examinee demonstrate to the examiner the academic knowledge and ability to do assigned crewmember functions safely and effectively. Requires AF Form 8 documentation.

Requalification Evaluation—This is an evaluation required to regain an individual's CMR status after going UQ. Requires AF Form 8 documentation.

Stan/Eval Examiner (SEE)—An operations crewmember that is designated by the unit commander to perform evaluation duties as specified by this instruction.

Unqualified (UQ)—The status of an individual who is not currently qualified.