

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

**AIR FORCE MANUAL 11-2C-5,
VOLUME 2**



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Flying Operations

**C-5 AIRCREW EVALUATION
CRITERIA**

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This publication implements Air Force Policy Directive (AFPD) 11-2, *Aircrew Operations*, and supports Air Force Instruction (AFI) 11-200, *Aircrew Training, Standardization/Evaluation, and General Operations Structure*, and AFMAN 11-202, Volume 3, *Flight Operations*, by establishing specific guidance for the operation of the C-5 aircraft. This is a specialized publication intended for use by Airmen who have graduated from technical training related to this publication. This instruction applies to all commanders, operations supervisors, and aircrew assigned or attached to all flying activities of commands operating C-5 aircraft. This publication applies to the Regular Air Force and the Air Force Reserve. This publication does not apply to the United States Space Force and the Air National Guard. Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule, which is in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the office of primary responsibility (OPR) using the Department of the Air Force (DAF) Form 847, *Recommendation for Change of Publication*; route the DAF Form 847 from the field through the appropriate functional chain of command. This publication may be supplemented at any level, but all supplements must be routed to the OPR of this publication for coordination prior to certification and approval. The authorities to waive wing/unit level requirements in this publication are identified with a tier (“T-0, T-1, T-2, T-3”) number following the compliance statement. See Department of the Air Force Manual (DAFMAN) 90-161, *Publishing Processes and Procedures*, for a description of the authorities associated with the tier numbers. Submit requests for waivers through the chain of command to

the appropriate tier waiver approval authority, or alternately, to the requestor's commander for non-tiered compliance items.

SUMMARY OF CHANGES

This document is substantially revised and must be completely reviewed. This revision reflects updated guidance for C-5M qualification, updates multiple C-5 certifications and qualifications, updates senior officer requirements, clarifies all engine go-around, corrects the Glossary of References and Supporting Information (**Attachment 1**), updates Pilot, Flight Engineer, and Loadmaster AF Form 3862 *Flight Evaluation Worksheet*, areas (**Attachment 2, Attachment 3, Attachment 4**), includes generalized reference to flight manual to accommodate the C-5M aircraft, and clarifies grading criteria.

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Chapter 1

GENERAL INFORMATION

1.1. Overview. This manual provides flight examiners and aircrews with procedures, evaluation criteria/tolerances to be used during flight evaluations according to AFMAN 11-202, Volume 2, *Aircrew Standardization/Evaluation Program*. Specific areas for evaluation are prescribed to ensure an accurate assessment of the proficiency and capabilities of aircrews.

1.2. Roles and Responsibilities. Evaluators will use this manual and the Master Task List/Evaluation Standards Document (MTL/ESD) when conducting aircrew evaluations. **(T-1)** Instructors will use this manual and the MTL/ESD when preparing aircrews for qualification. **(T-1)**.

1.3. Applicability. This manual is applicable to all individuals operating C-5 aircraft. Copies should be available to all aircrew members.

1.4. Key Words and Definitions.

1.4.1. "Will" and "Must" indicate a mandatory requirement.

1.4.2. "Should" is normally used to indicate a preferred, but not mandatory, method of accomplishment.

1.4.3. "May" indicates an acceptable or suggested means of accomplishment.

1.4.4. "Note" indicates operating procedures, techniques, etc., which are considered essential to emphasize.

1.5. Deviations and Waivers.

1.5.1. Unless otherwise specified, Air Force Deputy Chief of Staff Operations (AF/A3O) is the waiver authority for this manual. **Exceptions:** Major Command Directorate of Operations (MAJCOM/A3) is the waiver authority for individual aircrew requirements but may not approve blanket or group (two or more aircrew) waivers.

1.5.2. Request waivers through applicable channels to MAJCOM/A3 (or equivalent). As applicable MAJCOM/A3s forward requests to AFFSA/XO.

1.6. Supplements and Local Procedures. This manual is a basic directive. Each user MAJCOM may supplement this manual according to AFD 11-2. Limit supplement information to unique requirements only. MAJCOMs may specify unique evaluation items in their supplement.

1.6.1. Supplement Coordination Process. Forward Major Command Director of Operations (MAJCOM/DO)-approved supplements, with attached DAF Form 673, *Department of the Air Force Publication/Form Action Request*, to lead command Air Mobility Command Directorate of Operations (AMC/A3) for review. AMC/A3 will provide a recommendation and forward to AFFSA/XO for approval (according to AFD 11-2). Use the following address: AMC/A3VX, 507 Symington Dr., Scott AFB, IL 62225-5302. When supplements are published, send a final copy to Air Mobility Command Aircrew Standardization and Evaluations Airlift Branch (AMC/A3VX).

1.7. Improvement Recommendations. Send comments and suggested improvements to this manual on DAF Form 847, *Recommendation for Change of Publication*, through channels to

AMC/A3VX, 507 Symington Dr., Scott AFB, IL 62225-5302 according to AFI 11-215, *Flight Manuals Program*, and MAJCOM Supplement.

1.8. Evaluations. This manual establishes standardized instrument, qualification, mission, and instructor evaluation criteria. It also establishes the areas/subareas necessary for the successful completion of evaluations and identifies those required areas/subareas which are considered critical or non-critical.

1.9. Evaluation Requirements. Accomplish evaluations concurrently whenever practical. An examinee's crew resource management and Threat and Error Management (CRM/TEM) skills are evaluated on all evaluations. C-5 aircrew members will complete the following evaluations at 17-month frequency In Accordance With (IAW) AFMAN 11-202V2 and the appropriate MAJCOM supplement:

1.9.1. Instrument (INSTM) Evaluation. All C-5 pilots complete a periodic instrument evaluation including the requisite open-book instrument examination and an aircrew training device (ATD) or flight evaluation.

1.9.2. Qualification (QUAL) Evaluation. All C-5 crew members complete a periodic qualification evaluation including the requisite open-book, closed-book, and boldface written examinations, emergency procedures evaluation (EPE), and ATD/flight evaluation. The simulator may be used in conjunction with all qualification/mission, instrument, and emergency procedures evaluations. Perform evaluations in an approved simulator with an Air Force flight examiner (not a contractor). An Examinee's evaluation consists of all areas that can be realistically accomplished and are ATD creditable per AFMAN 11-2C-5V1, *C-5 Aircrew Training*. An Examinee's evaluation consists of all areas that can be realistically accomplished and are ATD creditable per AFMAN 11-2C-5V1, *C-5 Aircrew Training* and C-5 Ready Aircrew Program Tasking Memo. **Note:** Air refueling contacts are evaluated in the airplane.

1.9.3. Mission (MSN) Evaluation. All C-5 crewmembers will complete a mission evaluation. **(T-3)** Crew members complete all tasks required in the performance of normal operations and training sorties during a combined QUAL/MSN evaluation. Additional mission evaluations may be required for enroute, air refueling (AR), and air refueling instructor pilot (ARIP). See specific aircrew chapters for additional mission evaluation requirements. Additional mission evaluations should be as realistic as possible with a minimum of simulated events.

1.9.4. Instructor (INSTR) Evaluation. To initially qualify as an instructor in the C-5, aircrew members will successfully complete the appropriate initial instructor course and evaluation (see AFMAN 11-2C-5V1 for course requirements). **(T-3)** See specific aircrew chapters for evaluation re-alignment options/requirements.

1.9.5. SPOT Evaluations. A SPOT is a type of evaluation not intended to satisfy the requirements of a periodic (i.e., INSTM, QUAL, MSN, or INSTR) evaluation. SPOT evaluations have no specific requisites or requirements unless specified in MAJCOM supplements or as specified in this manual. See AFMAN 11-202V2 for options available to convert a SPOT evaluation to QUAL/MSN to meet periodic evaluation requirements.

1.9.6. Requalification (RQ). Use the prefix RQ when the evaluation is remedy for loss of qualification.

1.9.7. Emergency Procedures Evaluations (EPEs). See AFMAN 11-202V2 and the following: Evaluate an aircrew member's knowledge of emergency procedures and systems knowledge for all initial, re-qualification and periodic qualification evaluations. An examinee's EPEs includes areas commensurate with the examinee's crew qualification. See below and specific aircrew chapters of this manual for additional EPE requirements.

1.9.7.1. Units develop and periodically maintain a list of EPE program requirements (topics, special interest, etc.) in **Chapter 5**. An examinee's EPEs includes areas commensurate with the examinee's graduated training (e.g., initial, line, instructor, or evaluator) or as specified in AFMAN 11-202V2 and MAJCOM supplement.

1.9.7.2. Examinees receiving an overall EPE grade of unqualified will be placed in supervised status until recommended additional training and re-evaluation are completed. **(T-3)** Examinees receiving an overall EPE grade of unqualified because of unsatisfactory boldface procedures will not be permitted to fly in their aircrew position until a successful re-evaluation is accomplished. **(T-3)** Accomplish additional training IAW AFMAN 11-202V2.

1.9.8. Evaluation Prefixes. Use AFMAN 11-202V2 evaluation prefixes for AF Form 8, *Certificate of Aircrew Qualification*, and AF Form 942, *Record of Evaluation*.

1.9.8.1. Identify unique mission type evaluation descriptions in parenthesis (e.g., MSN (AR), MSN (ARIP)). Use the same annotation on the AF Form 942.

1.9.9. Difference Evaluations. The phrase "difference" is used to describe the evaluation of one or more areas to meet qualification requirements. Normally an examinee's difference evaluation includes areas that are different between aircraft models, systems, or operations not previously qualified to operate.

1.9.9.1. A difference evaluation does not have an expiration date established because the evaluation does not satisfy the requirements for the full periodic evaluation. For administrative purposes, annotate AF Form 8, flight phase as a SPOT evaluation (according to AFMAN 11-202V2) and **paragraph 1.9.5** above.

1.10. Grading Policies.

1.10.1. The overall qualification level awarded for an evaluation is based on performance during both the flight and ground phases. This grade should be awarded only after all evaluation requirements have been completed and given due consideration.

1.10.2. To receive a qualified grade on an evaluation, the aircrew member must satisfy the criteria set forth for that evaluation and demonstrate ability to operate the aircraft and/or equipment safely and effectively during all phases of an evaluation. **(T-3)**

1.10.3. Use the grading criteria in this manual and the MTL/ESD to grade areas accomplished during an evaluation.

1.10.3.1. The flight examiner must grade the areas listed as "required" in the general and specific evaluation sections of this manual. **(T-3)**

1.10.3.2. The flight examiner may grade any area accomplished during an evaluation if performance in that area impacts the specific evaluation requirements or flight safety.

1.10.4. When the evaluation occurs in an airplane and it is not possible to complete the evaluation of a required area, the area may be evaluated in an ATD or verbally evaluated. Flight examiners will make every effort to evaluate all required areas in the airplane before resorting to this provision. See the appropriate chapter for areas prohibited from verbal/ATD evaluation.

1.10.5. Grading criteria tolerances assume smooth air and stable aircraft conditions. Minor momentary deviations are acceptable, provided the examinee applies prompt corrective action and such deviations do not jeopardize flight safety. Consider cumulative deviations when determining the overall grade.

1.10.5.1. Flight examiners will use the grading criteria in this manual and the MTL/ESD to assist in determining proper grades, not to replace flight examiner judgement.

1.11. Grading System. See AFMAN 11-202V2. If an aircrew member receives an unqualified grade in any critical area, the overall grade for the evaluation is unqualified. Critical areas are identified by "(Critical)" in the areas' title and shading of Q- block on the AF Form 3862 (see examples at [Attachment 2](#), [Attachment 3](#), and [Attachment 4](#)).

1.12. Unsatisfactory Performance.

1.12.1. Conduct a thorough post-mission debriefing to the examinee and applicable aircrew members on all aspects of the evaluation.

1.12.2. Immediately correct breaches of flying safety or flight discipline. When an examinee jeopardizes safety of flight, the evaluator may assume the duties of that aircrew member. This does not mean the flight examiner assumes the examinee's position any time unsatisfactory performance is observed.

1.12.3. Assign a qualification level of "Q-3" for unsatisfactory performance in any critical area/subarea or if the flight examiner assumes the examinee's duties.

1.12.4. An examinee's unsatisfactory performance in a non-critical area/subarea result in no higher than a qualification level "Q-2".

1.12.5. Immediately notify the examinee's squadron commander/operations officer and flight commander, if available, when less than "Q-1" performance is observed.

1.12.6. Flight examiners observing unsatisfactory performance by a crewmember other than the examinee (including one in a different crew position) will comply with the requirements in AFMAN 11-202V2.

1.13. Conduct of Evaluations.

1.13.1. Pre-brief the examinee on the conduct, purpose and requirements of the evaluation, and all applicable evaluation criteria. Evaluate the examinee in each graded area/subarea.

1.13.1.1. Flight examiners should not evaluate personnel they have primarily trained, recommended for upgrade evaluation, or who render their effectiveness/performance reports.

1.13.2. Unless otherwise specified, flight examiners may conduct the evaluation in any crew position/seat that best enables the flight examiner to observe the examinee's performance. If

occupying a primary crew position, the evaluator performs all duties required of that position (e.g., mandatory advisory calls, etc.).

1.13.2.1. In the event of unsatisfactory performance, the flight examiner determines additional training requirements. Normally, additional training should not be accomplished on the same flight. **Exception:** Additional training on the same flight is allowed when unique situations presenting valuable training opportunities (e.g., thunderstorm avoidance, crosswind landings, etc.) exist. This option requires the utmost flight examiner discretion and judicious application. When used, the examinee is informed of when the additional training begins and ends.

1.13.2.2. When evaluations are less than Q-1 performance, the flight examiner debriefs the examinee and examinee's commander or supervisor. Notify the operations officer, flight commander/chief and examinee's supervisor as soon as possible.

1.13.3. The ATD may be used to accomplish additional training and rechecks. Areas for additional training and rechecks should be limited to those areas that can be realistically accomplished in the ATD.

1.13.4. The flight examiner who administered the original evaluation should not normally administer the recheck.

1.14. Use of the AF Form 3862. Units may overprint the Flight Evaluation Worksheet using the examples in [Attachment 2](#), [Attachment 3](#), or [Attachment 4](#). Copy each title, area number and text (in the order illustrated) and shading to the appropriate blocks. Units may add special interest items and/or local evaluation requirements. Use the worksheet in flight to ensure all required areas are evaluated. Record positive and negative trend information and aircrew member performance. The examiner completing the evaluation signs and dates the worksheet. File the worksheet or the signed and dated draft copy of the AF Form 8 in the aircrew member's Flight Evaluation Folder (FEF) immediately after the flight evaluation as a temporary record of the evaluation results. Remove the temporary evaluation record when the permanent AF Form 8 is filed in the FEF.

1.15. Aircrew Testing. See specific testing requirements in AFMAN 11-202V2 and include the following:

1.15.1. Formal training unit end-of-course (EOC) examinations may be credited toward written examination requirements provided they are administered as part of a formal syllabus and a passing score of 85 percent is attained. EOC may be used as the naming convention on the AF Form 8. Individuals who do not receive a passing score of 85 percent are required to complete the unit's open and closed book examinations.

1.15.2. Open Book Exam (Open Book). Conduct an open book exam consisting of 60 to 100 questions. Include questions pertaining to each mission qualification and or certification held by the examinee (e.g., instructor or AR). See crew member chapters for additional testing requirement (if specified).

1.15.3. Closed Book Exam (Closed Book). The closed book examination should be administered before the initial (see EOC examination above) flight evaluation and subsequently with periodic flight evaluations. The closed book exam consists of a minimum of 20 questions derived from the Master Question File (MQF). Complete a boldface exam in

conjunction with the closed book exam, if applicable. See crew member chapters for additional testing requirements (if specified). AMC/A3VX will manage the C-5 MQF.

1.15.4. Instructor Open Book Exam (INIT INSTR Open Book). Complete EOC instructor examination, or if not available, conduct an INIT INSTR open book examination. The exam is a minimum 20 questions derived from AFMAN 11-2C-5V1, AFMAN 11-2C-5V3, C-5 *Operations Procedures*, this manual, and other applicable sources. The questions are specific to instructor duties and scenario-based.

1.15.4.1. Subsequent (Periodic) Instructor Examinations. Include scenario-based instructor questions in the open book examination.

1.15.5. Instrument Exam (Pilots only). See AFMAN 11-202V2 instrument requirements. Document the exam completion on AF Form 8 as INSTRUMENT, date completed, and the appropriate score.

1.16. Typical C-5 Evaluation Profile(s). The unit determines the evaluation profile(s) suitable for in-flight evaluations with unit Operations Group Stan/Eval approval (approval of the units' flying schedule satisfies this requirement). See specific aircrew chapters for enroute and tactical mission profile requirements.

1.17. Senior Officer Requirements. Senior officers meeting the criteria outlined in AFMAN 11-202, Volume 1, *Aircrew Training*, may complete a C-5 senior officer qualification evaluation. Requisites include open and closed book examinations, instrument examination, boldface, and EPEs. The evaluation is accomplished from the left seat. Evaluate appropriate areas in GENERAL, QUALIFICATION, and INSTRUMENT. The evaluation should consist of a variety of instrument approaches and Visual Flight Rule (VFR) patterns. Abnormal configuration, simulated engine-out, right seat, and Cat II approach and landings are not required. Annotate the AF Form 8 as a QUAL/INSTM evaluation with an expiration date, crew position "FP", and include a restriction in the comment section, "fly only under the direct supervision of a qualified C-5 Instructor Pilot." See AFMAN 11-202V1, for senior officer qualification and performance requirements.

Chapter 2

PILOT EVALUATIONS

2.1. General. This chapter standardizes initial, periodic, and re-qualification evaluations, including requirements for pilot instrument, qualification, mission, and instructor evaluations.

2.2. Instrument Evaluations. Normally conduct C-5 instrument evaluations in conjunction with qualification evaluations.

2.3. Qualification/Mission Evaluations (Initial, Periodic and Requalification). Include all areas under GENERAL, QUALIFICATION/MISSION, INSTRUMENT, and TACTICS, and appropriate written examinations. **Note:** Subareas are not required to be evaluated unless otherwise specified. Non-mission ready crewmembers assigned/attached to MAJCOM staff and/or Numbered Air Force instructor or flight evaluators, 618 Air Operations Center), expeditionary forces, Formal Training Unit, or direct reporting unit may be categorized as basic mission capable are not required to be evaluated on items (e.g., TACTICS, etc.) in which they are not qualified.

2.3.1. Evaluator Notes:

2.3.1.1. Pilots will be evaluated on all maneuvers to include no flap landings, Cat II Instrument landing system (ILS) approaches, and simulated engine-out landings and go-arounds. **(T-3) Exception:** For senior officer requirements, see [paragraph 1.17](#).

2.3.1.2. Item 16, "Landing Roll / Braking / Reverse Thrust" events are evaluated during a full stop landing.

2.3.1.3. Aircraft commanders and pilots accomplish Cat II ILS approaches and landings from the left seat. **Exception:** Instructors and examiners may be evaluated from the right seat. Initial instrument/qualification evaluations require demonstration of a missed approach and a landing. Subsequent evaluations require one approach to either a missed approach or landing.

2.3.1.4. Two non-precision approaches should be evaluated; one is flown as a straight-in, the other as a circling approach. Only one non-precision approach (circling) is necessary if tactical approaches are evaluated.

2.3.1.5. Evaluate pilots on at least one approach and landing in both left and right seats. **Exception:** Instructors and examiners need only be evaluated from one seat.

2.3.1.6. Evaluate either a rectangular or overhead VFR pattern. Not required if tactical maneuvers are evaluated.

2.3.1.7. Pilots will be evaluated by sampling TACTICS areas during all QUAL evaluations. **(T-3)** Evaluate a minimum of one departure (subarea 42a), and either one high (subarea 42c) or one low (subarea 42b) approach.

2.3.1.8. Tactical (combat) mission planning, defensive system usage, general knowledge and AFTTP 3-1, *Air Force Tactics, Techniques, and Procedures*, and AFTTP 3-3, *Air Force Tactics, Techniques, and Procedures 3-3. Intergrated Planning and Employment*, knowledge is sampled during the flight evaluation.

2.3.1.9. Maneuvers not accomplished in the aircraft due to weather, maintenance, etc. may be completed in the simulator.

2.3.1.10. An all Engine Go-Around (Area 17) is not required when an Engine Out Go-Around (Area 19) is accomplished.

2.4. Additional Mission Evaluations.

2.4.1. Air Refueling (AR). All initial, periodic and re-qualification evaluations include all areas under GENERAL and AIR REFUELING. AR may also be evaluated in conjunction with a QUALIFICATION/MISSION/INSTRUMENT evaluation.

2.4.1.1. If evaluating a pilot for only AR qualification, annotate AF Form 8 as a MSN (AR) evaluation.

2.4.1.2. Rendezvous or closure from a minimum of 1/2 nm is mandatory. Pilots will demonstrate sustained contacts with tanker autopilot on and off and a practice emergency separation. **(T-3)** Evaluate pilots in left seat. Evaluate instructors in either seat. Manual boom latching and overrun procedures may be evaluated verbally.

2.4.2. Operational Mission Evaluation (OME). All pilots not previously certified to operate the C-5 in command will receive a one-time OME prior to aircraft commander certification. **(T-3)**. The evaluation profile is at the discretion of the Operation Group Commander (OG/CC).

2.4.2.1. The suggested profile should model a typical operational mission, to include at least a home-station departure, two mission legs, takeoff, arrival, landing, tactical maneuvers (if applicable) and a crew rest. One leg should be flown over an oceanic route with different departure and arrival locations.

2.4.2.2. Annotate AF Form 8 as a SPOT evaluation and enter, "This operational mission evaluation was conducted in conjunction with aircraft commander certification" in the remarks section.

2.5. Instructor Evaluations (Initial, Periodic, or Requalification). Flight examiners will place particular emphasis on the examinee's ability to recognize student difficulties and provide timely, effective corrective action. **(T-3)** As a minimum, demonstrate and instruct a variety of instrument/visual approaches (instruct a minimum of one approach and landing flown by another pilot). Conduct initial or re-qualification instructor evaluations with any qualified pilot occupying the other seat, to include touch-and-go operations. The examinee normally occupies the right seat.

2.5.1. Include (as a minimum) all areas under GENERAL, QUALIFICATION/MISSION (see [paragraph 2.3.1.](#)), AIR REFUELING (for ARIP evaluations only), and INSTRUTOR.

2.5.1.1. Pilots who desire to realign the INSTM/QUAL/MSN evaluation expiration date during the initial (or requalification) instructor evaluation must also demonstrate all required areas/subareas in INSTRUMENT and written examinations. **(T-3)**

2.5.1.1.1. Pilots receiving an Initial or Requal Instructor Evaluation in the aircraft are not required to be evaluated on Engine Out Operations, to include Engine Out Go-Arounds and Approaches.

2.5.1.1.2. Pilots receiving a Requal Instructor Evaluation who have (re)qualified to Mission Pilot and completed all areas/subareas for INSTRUMENT and QUALIFICATION/MISSION, only need to accomplish areas/subareas under

GENERAL and those related specifically to INSTRUCTOR qualification (i.e., Area 32, 32A, 32B) to complete the Instructor Requal.

2.5.1.2. Initial instructor AR evaluations are conducted from the right seat. Annotate the AF Form 8 with “INIT MSN (ARIP)” and add the following comment, “This evaluation fulfills the requirements of the MSN (AR) evaluation.” Subsequent recurring MSN evaluations for air refueling instructor pilots are annotated as “MSN (AR)” and includes all areas under AIR REFUELING and INSTRUCTOR.

2.5.2. Periodic instructor evaluations are administered in conjunction with QUALIFICATION/INSTRUMENT evaluations in accordance with [paragraph 2.2](#) and [paragraph 2.3](#).

2.6. Emergency Procedures Evaluations (EPEs). Pilots will accomplish the EPEs in an ATD, during the preflight briefing, during the flight evaluation, or any combination of these. **(T-3)**

2.7. Additional Information.

2.7.1. Evaluators may conduct evaluations when scheduled as primary aircrew members.

2.7.2. Instructor and flight examiner pilots receiving periodic evaluations may be evaluated in either seat but are not required to be evaluated in both.

2.8. Pilot Grading Criteria. When grading subareas, identify the area that is most adversely affected, and grade that one area accordingly, instead of the overall area, unless in the opinion of the evaluator, the entire area is affected. (i.e., If subarea 30d TACAN Approach is graded U, this does not necessarily drive the entire subarea 30 Non-Precision Approaches Area to be U as well).

Table 2.1. Pilot General Evaluation Areas.

Area 1, Directives and Publications.	
Q	Possessed a high level of knowledge of all applicable aircraft directives and publications and understood how to apply both to enhance mission accomplishment. Required publications (paper or electronic) were current and properly posted.
Q-	Unsure of some directives but could locate information in appropriate publications. Required publications (paper or electronic) were current but improperly posted.
U	Unaware of established directives and/or could not locate them in the appropriate publication in a timely manner. Required publications (paper or electronic) were not current.
Area 2, Mission Preparation/Planning/Performance.	
Q	Checked all factors applicable to flight such as weather, Notice To Air Missions (NOTAMs), alternate airfields, airfield suitability, fuel requirements, charts, etc. Displayed a high level of knowledge of performance capabilities and operating data. Evaluated performance data intended for use during takeoff/landing after final adjustments and corrections have been made.
Q-	Made minor errors or omissions in checking all factors that could have detracted from mission effectiveness. Marginal knowledge of performance capabilities and/or operating data.

U	Made major errors or omissions would have prevented a safe or effective mission. Unsatisfactory knowledge of performance capabilities and/or operating data.
Area 3, Use of Checklists.	
Q	Consistently used and called for the correct checklist and gave the correct response at the appropriate time throughout the mission.
Q-	Checklist responses were untimely and/or aircrew member required continual prompting for correct response.
U	Used or called for incorrect checklist or consistently omitted checklist items. Unable to identify the correct checklist to use for a given situation. Did not complete checklist prior to event.
Area 4, Safety Consciousness (Critical).	
Q	Aware of and complied with all safety factors required for safe aircraft operation and mission accomplishment.
U	Not aware of or did not comply with all safety factors required for safe aircraft operation or mission accomplishment. Operated aircraft in a dangerous manner.
Area 5, Judgement / Compliance (Critical)	
Q	Prepared and completed mission in compliance with directives. Exercised sound judgement when executing assigned duties. Demonstrated knowledge of operating procedures and restrictions and where to find them in the correct publications.
U	Unaware of established procedures and/or could not locate them in the appropriate publication in a timely manner. Failed to comply with a procedure that could have jeopardized safety or mission success.
Area 6, Crew Resources Management (CRM)/Threat and Error Management (TEM). CRM/TEM, IAW AFMAN 11-290, <i>Cockpit/Crew Resource Management Program</i> , applicable MAJCOM Supplement, and AF Form 4031, <i>CRM/TEM Skills Criteria Training/Evaluation</i> .	
Q	Proactively applied appropriate/established CRM skills and TEM concepts throughout the flight/mission. Ensured safe/effective mission accomplishment by anticipating, recognizing, and mitigating relevant threats. Identified and mitigated own and other crewmembers' errors via the proper use of monitoring/crosschecking procedures and through the employment of applicable, established Verbalize, Verify, and Monitor (VVM) practices/procedures.
Q-	Reactively and inconsistently, or inadequately applied appropriate/established CRM skills and TEM concepts but did not allow those deficiencies to detract from mission accomplishment and/or flight safety. Unreliably and/or inadequately anticipated, identified, or mitigated relevant threats and/or own or other crewmembers' inconsequential errors.
U	Did not apply appropriate/established CRM skills and TEM concepts to ensure safe/effective mission accomplishment. Failed to anticipate, identify, or mitigate relevant threats and/or own or other crewmembers' consequential errors.

Area 7, Communication Procedures.	
Q	Complete knowledge of and compliance with correct communications procedures. Makes radio and interphone transmissions concise with proper terminology. Complied with and demonstrated knowledge of all required instructions including successful operation of HAVE QUICK, Interrogation Friend or Foe (IFF), and secure voice equipment.
Q-	Occasional deviations from procedures that required re-transmissions or resetting codes. Slow in initiating or missed several required radio calls. Transmissions contained extraneous matter, were not in proper sequence, or used non-standard terminology. Difficulty in configuring or operating HAVE QUICK, IFF, and secure voice equipment with little or no mission impact.
U	Incorrect procedures or poor performance caused confusion and jeopardized mission accomplishment. Omitted numerous radio calls. Unable to configure or operate HAVE QUICK, IFF, and secure voice equipment with a direct impact on mission success.
Area 8, Life Support Systems/Egress.	
Q	Displayed thorough knowledge of location and use of life support systems and equipment. Demonstrated and emphasized the proper procedures used to operate aircraft egress devices such as doors, windows, hatches, slides, rafts, and escape ropes, etc.
Q-	Limited knowledge of location and use of life support systems and equipment. Unsure of the proper operating procedures for some of the aircraft egress devices.
U	Displayed unsatisfactory knowledge of location and use of life support systems and equipment. Unable to properly operate aircraft egress devices.
Area 9, Knowledge/Completion of Forms.	
Q	All required forms and/or flight plans were complete, accurate, readable, accomplished on time and in accordance with applicable directives. Effectively communicated information appropriate for an accurate debrief of significant events to applicable agencies (intelligence, maintenance, etc.).
Q-	Minor errors on forms and/or flight plans did not affect conduct of the mission. Incorrectly or incompletely reported some information due to minor errors, omissions, and/or deviations.
U	Did not accomplish required forms and/or flight plans. Omitted or incorrectly reported significant information due to major errors, omissions, and/or deviations.
Area 10, Airmanship/Flight Discipline (Critical).	
Q	Executed the assigned mission in a timely, efficient manner. Demonstrated strict professional flight and crew discipline throughout all phases of flight. Conducted the flight with a sense of understanding and comprehension.

U	Untimely or inappropriate decisions/recommendations, or lack thereof, degraded or prevented accomplishment of the mission or part of the mission. Resources were not always effectively used to the point that specific mission objectives were not achieved. Failed to exhibit strict flight and crew discipline.
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Table 2.2. Qualification/Mission Evaluation Areas.

Area 11, Ground Operations/Taxi.	
Q	Established and adhered to station, start engine, taxi, and take-off time to assure thorough preflight, check of personal equipment, crew/passenger briefings, etc. Accurately determined readiness of aircraft for flight. Completed all systems preflight/post-flight inspections in accordance with flight manual, AFMAN 11-218, <i>Aircraft Operations and Movement on the Ground</i> , and local procedures.
Q-	Same as above except for minor procedural deviations that did not detract from mission effectiveness.
U	Crew errors directly contributed to a late takeoff that degraded the mission. Failed to accurately determine readiness for flight. Failed to pre-/post-flight a critical component or could not conduct a satisfactory pre-/post-flight inspection. Unsatisfactory taxi procedure led to attempted incident or mission degradation.
Area 12, Takeoff.	
Q	Maintained smooth, positive aircraft control throughout the takeoff. Performed the takeoff in accordance with flight manual and as published/directed.
Q-	Minor deviations from published procedures without affecting safety of flight. Control was rough or erratic. Hesitant in application of procedures/corrections.
U	Takeoff was potentially dangerous. Attempted to exceed aircraft/systems limitations. Failed to establish proper climb attitude. Excessive deviation from intended flight path. Violated flight manual procedures.
Area 13, Radar Operations/Weather Avoidance/Windshear. May be verbally evaluated.	
Q	Effectively demonstrated procedures for operating weather radar. Updated weather radar/analysis throughout the mission. Highly knowledgeable of windshear detection and avoidance equipment. Used all available sources to determine if and/or to what degree severe weather conditions exist. Complied with all weather separation and windshear avoidance directives.
Q-	Minor deviations observed when operating weather radar. Did not update radar/weather analysis during worsening weather conditions. Limited knowledge of windshear detection and avoidance equipment. Complied with all weather separation and windshear avoidance directives.
U	Unable to demonstrate proper use of weather radar. Failed to update radar/weather analysis during the mission. Displayed unsatisfactory knowledge of windshear detection and avoidance equipment. Failed to comply with weather separation or windshear avoidance directives that could have jeopardized safety or mission success.

Area 14, VFR Pattern.	
Q	Performed traffic pattern and turn to final/final approach in accordance with published procedures. Aircraft control was smooth and positive. Did not over/under-shoot the final approach. Constantly cleared area of intended flight.
Q-	Performed traffic pattern and turn to final/final approach with minor deviations from published procedures. Aircraft control was safe, but not consistently smooth and positive. Over- shot/under-shot final approach slightly, but was able to intercept a normal glide path. Adequately cleared area of intended flight.
U	Did not perform traffic pattern and/or turn to final/final approach in accordance with published procedures. Displayed erratic aircraft control. Over-shot/under-shot final approach by a wide margin requiring a go-around or potentially unsafe maneuvering on final. Did not clear area of intended flight.
Area 15, Landings. (Includes subareas: 15A, Full Flap; 15B, Partial Flap; 15C, No Flap; 15D, Engine Out; 15E, Touch-and-Go; and 15F, Right Seat). Note: Specific items to evaluate include threshold altitude/airspeed, runway alignment, flare, touchdown, and landing in crab.	
Q	Performed landings as published/directed in accordance with flight manual.
Q-	Performed landings with minor deviation to procedures as published/directed. Landed in a slight crab.
U	Landing not performed as published/directed. Exceeded Q- criteria.
Area 16, Landing Roll/Braking/Reverse Thrust.	
Q	Performed as published/directed in accordance with flight manual. Maintained centerline within 15-feet throughout landing roll. Braking action and reverse thrust actuation prompt and smooth.
Q-	Performed with minor deviation to procedures as published/directed. Maintained centerline within 25-feet throughout landing roll. Braking action and reverse thrust actuation unnecessarily delayed or not smooth.
U	Not performed as published/directed. Braking or reverse thrust actuated prior to touchdown.
Area 17, All Engine Go-Around (GA). Not required if an Engine Out Go-Around is accomplished.	
Q	Initiated and performed go-around promptly and in accordance with flight manual and directives. Applied smooth control inputs. Attained and maintained a positive climb.
Q-	Slow or hesitant to initiate go-around. Slightly over-controlled the aircraft. Minor deviations did not affect mission accomplishment or compromise safety.
U	Did not initiate go-around when appropriate or directed. Major deviations or misapplication of procedures could have led to an unsafe condition.
Area 18, Engine Out Operations. Note: Use approach criteria for the type of approach being flown and the following:	

Q	Proper control inputs were used to correct asymmetric condition. Aircraft was properly trimmed. Proper consideration was given to maneuvering the aircraft with regard to the failed engine.
Q-	Minor deviations in aircraft control occasionally caused uncoordinated flight.
U	Aircraft was not properly trimmed. Aircraft control was erratic and consistently resulted in uncoordinated flight. Maneuvering the aircraft with regard to the failed engine was potentially unsafe.
Area 19, Engine Out GA / Engine Failure Takeoff Continued.	
Q	Performed all required procedures in accordance with the flight manual and directives. Applied smooth, positive, and coordinated control inputs. Rudder and aileron inputs were in correct direction.
Q-	Made procedural errors, which did not affect safety. Aircraft control was not consistently smooth and positive. Rudder and aileron inputs were in correct direction but some over-/under- control.
U	Did not initiate go-around when appropriate or directed. Major deviations or misapplication of procedures could have led to an unsafe condition. Rudder and/or aileron inputs were incorrect. Exceeded Q- criteria.
Area 20, Boldface Emergency Procedures (Critical).	
Q	Correct, immediate responses. Maintained aircraft control. Coordinated proper crew actions.
U	Incorrect sequence, unsatisfactory response, or unsatisfactory performance of corrective actions.
Area 21, Other Emergency Procedures.	
Q	Operated within prescribed limits and correctly diagnosed problems. Performed/explained proper corrective action for each type of malfunction. Effectively used available aids and checklists.
Q-	Operated within prescribed limits but slow to analyze problems or apply proper corrective actions. Did not effectively use and/or experienced delays, omissions, or deviations in use of checklist and/or available aids.
U	Attempted to exceed limitations. Unable or failed to analyze problem or take proper corrective action. Did not use checklist and/or available aids effectively.
Area 22, Systems Operations/Knowledge/Limitations.	
Q	Demonstrated/explained a complete knowledge of aircraft systems operations/limitations and proper procedural use of systems.
Q-	Marginal knowledge of aircraft systems operations and limitations in some areas. Used individual technique instead of established procedure and was unaware of differences.
U	Unsatisfactory systems knowledge. Unable to demonstrate/explain the procedures for aircraft systems operations.

Area 23, Flight Automation Management.	
Q	Adhered to, and demonstrated appropriate knowledge of, published guidance regarding the operation of automated aircraft flight systems, Pilot Flying (PF)/Pilot Monitoring (PM) flight automation responsibilities, and Verbalize, Verify, and Monitor (VVM) procedures as they relate to flight automation. Proficiently programmed, reviewed/verified, and operated automated flight systems at suitable levels to enhance situational awareness and/or to reduce pilot workload. Either did not make flight automation errors or quickly identified and mitigated those errors.
Q-	Demonstrated limited knowledge of published guidance for the operation of automated flight systems, PF/PM flight automation responsibilities, and VVM procedures as they relate to flight automation. Inconsistently or inadequately programmed, reviewed/verified, or operated aircraft automated flight systems at suitable levels to enhance situational awareness and/or to reduce pilot workload. Made, but did not identify or mitigate, inconsequential flight automation errors.
U	Did not follow published guidance for the operation of automated flight systems, causing detriment to mission/flight accomplishment. Did not adequately employ PF, PM, and/or VVM guidance regarding the usage of flight automation systems or adequately program, review/verify, and/or operate automated aircraft systems at suitable levels. Made, but did not identify or mitigate, consequential flight automation errors.

Table 2.3. Instrument Evaluation Areas.

Note: Tolerances for the following areas published in the MTL/ESD define “Q-” deviations.	
Area 24, Instrument Departure/Standard Instrument Departure (SID).	
Q	Complied with all restrictions or controlling agency instructions. Made all required reports. Applied course/heading corrections promptly. Demonstrated smooth, positive control.
Q-	Minor deviations in navigation occurred during departure. Slow to comply with controlling agency instructions or unsure of reporting requirements. Slow to apply course/heading corrections. Aircraft control was not consistently smooth and positive.
U	Failed to comply with published/directed departure, or controlling agency instructions. Accepted an incomplete or improper clearance. Aircraft control was erratic.
Area 25, Enroute Navigation.	
Q	Satisfactory capability to navigate using all available means. Used appropriate navigation procedures. Complied with clearance instructions. Aware of position at all times. Remained within the confines of assigned airspace.
Q-	Minor errors in procedures/use of navigation equipment. Slow to comply with clearance instructions. Had some difficulty in establishing exact position and course. Slow to adjust for deviations in time and course.

U	Major errors in procedures/use of navigation equipment. Could not establish aircraft position. Failed to recognize checkpoints or adjust for deviations in time and course. Did not remain within the confines of assigned airspace. Exceeded Q- criteria.
Area 26, Holding.	
Q	Performed entry and holding in accordance with published procedures and directives.
Q-	Performed entry and holding procedures with minor deviations.
U	Holding was not in accordance with flight manual, directives, or published procedures. Exceeded Q- criteria.
Area 27, Use of Navigational Aids (NAVAIDs).	
Q	Ensured NAVAIDs were properly tuned, identified, and monitored.
Q-	Some deviations in tuning, identifying, and monitoring NAVAIDs.
U	Did not ensure NAVAIDs were tuned, identified, and monitored.
Area 28, Descent/Arrival.	
Q	Performed descent as directed. Complied with all flight manual, controller-issued, or standard arrival restrictions in a proficient manner. Accomplished all required checks.
Q-	Performed descent as directed with minor deviations that did not compromise mission safety. Slow to accomplish required checks.
U	Performed descent with major deviation(s). Did not accomplish required checks. Erratic corrections. Exceeded flight manual limitations.
Area 29, Precision Approaches.	
Subarea 29A, Precision Approaches. Optional. May be verbally evaluated.	
Q	Approach was in accordance with published procedures. Smooth and timely response to controller's instructions. Established initial glide path and maintained path with only minor deviations. Azimuth did not exceed slightly left or slightly right of course. Complied with decision height. Position would have permitted a safe landing. Elevation did not consistently exceed slightly above or slightly below glide path.
Q-	Performed approach with minor deviations. Slow to respond to controller's instructions and make corrections. Improper glide path control. Complied with decision height. Azimuth did not exceed well left or well right of course. Position would have permitted a safe landing. Elevation did not exceed well above or well below glide path.
U	Approach not in accordance with flight manual, directives, or published procedures. Erratic corrections. Did not respond to controller's instructions. Did not comply with decision height and/or position would not have permitted a safe landing. Erratic glide path control. Exceeded Q- criteria.
Subarea 29B, ILS. May be completed in conjunction with subarea 29C.	

Q	Approach was in accordance with published procedures. Smooth and timely corrections to azimuth and glide slope. Complied with decision height. Position would have permitted a safe landing. Maintained glide path with only minor deviations.
Q-	Performed approach with minor deviations. Slow to make corrections. Slow to comply with decision height. Position would have permitted a safe landing. Improper glide path control.
U	Approach not in accordance with flight manual, directives, or published procedures. Erratic corrections. Did not comply with decision height and/or position at decision height would not have permitted a safe landing. Exceeded Q- criteria.
Subarea 29C, Cat II ILS. See additional requirements in AFMAN 11-2C-5V3 and the following:	
Q	Approach was in accordance with published procedures. Smooth and timely corrections to azimuth and glide slope. Complied with decision height. Position would have permitted a safe landing. Maintained glide path with only minor deviations.
Q-	Performed approach with minor deviations. Slow to make corrections. Slow to comply with decision height. Position would have permitted a safe landing. Improper glide path control.
U	Approach not in accordance with flight manual, directives, or published procedures. Erratic corrections. Did not comply with decision height and/or position at decision height would not have permitted a safe landing. Exceeded Q- criteria.
Area 30, Non-precision Approaches. Includes subareas 30A, Non Directional Beacon ; 30B, Localizer/ VHF Omni-Ranging; 30C, Airfield Suitability Report (ASR); 30D, TACAN, and 30E, Global Positioning System.	
Q	Approach was in accordance with published procedures. Used appropriate descent rate to arrive at Minimum Descent Altitude (MDA) at or before Visual Descent Point (VDP). Position would have permitted a safe landing. Smooth and timely response to controller's instructions (ASR).
Q-	Performed approach with minor deviations. Arrived at MDA at or before the Missed Approach Plate (MAP), but past the VDP. Position would have permitted a safe landing. Slow to respond to controller's instructions and make corrections (ASR).
U	Approach not in accordance with published procedures. Maintained steady-state flight below the MDA, even though the -50 foot limit was not exceeded. Position would not have permitted a safe landing. Failed to compute or adjust timing to determine MAP (when required). Exceeded Q- criteria.
Area 31, Circling Approach.	
Q	Properly identified aircraft category for the approach and remained within the lateral limits for that category. Complied with controller's instructions. Attained runway alignment without excessive bank angles. Did not descend from the MDA until in a position to place the aircraft on a normal glide path or execute a normal landing.

Q-	Slow to identify aircraft category for the approach and remained within the lateral limits for that category. Slow to comply with controller's instructions. Attained runway alignment, but occasionally required excessive bank angles or maneuvering.
U	Did not properly identify aircraft category or exceeded the lateral limits of circling airspace. Did not comply with controller's instructions. Excessive maneuvering to attain runway alignment was potentially unsafe. Descended from the MDA before the aircraft was in a position for a normal glide path or landing. Exceeded Q- criteria.
Area 32, Missed Approach.	
Q	Executed missed approach in accordance with published procedures. Complied with controller's instructions. Applied smooth control inputs.
Q-	Executed missed approach with minor deviations to published procedures. Slow to comply with controller's instructions. Slightly over-controlled the aircraft.
U	Did not execute missed approach in accordance with flight manual, directives, or published procedures. Did not comply with controller's instructions. Deviation or misapplications of procedures could have led to an unsafe condition.

Table 2.4. Pilot Instructor Evaluation Areas.

Area 33, Instructor Ability (Critical).	
Q	Demonstrated the ability to communicate effectively. Provided appropriate guidance when necessary. Planned ahead and made timely decisions. Identified and corrected potentially unsafe maneuvers/ situations.
U	Unable to effectively communicate or provide timely feedback to the student. Gave instruction that was unsafe or contradicted published directives. Did not provide corrective action when necessary. Did not plan ahead or anticipate student problems. Did not identify unsafe maneuvers/situations in a timely manner. Made no attempt to instruct.
Subarea 33A, Demonstration of Maneuvers (Critical).	
Q	Effectively demonstrated correct procedures, systems operation, or flight maneuvers. Thorough knowledge of applicable aircraft systems, procedures, publications, and directives.
U	Ineffective or incorrect demonstration of procedures, systems operation, or flight maneuvers. Insufficient depth of knowledge about applicable aircraft systems, procedures, and/or proper source material.
Subarea 33B, Student Briefing/Critique (Critical).	
Q	Briefings were well organized, accurate, and thorough. Reviewed student's present level of training and defined mission events to be performed. During the critique, demonstrated an effective ability to reconstruct the flight, offer mission analysis, and provide guidance, where appropriate. Training grade reflected the actual performance

	of the student relative to the standard. Pre-briefed the student's next mission, if required.
U	Briefings were marginal or non-existent. Did not review the students' past performance. Failed to adequately critique student or analyze the mission. Training grade did not reflect actual performance of student. Overlooked or omitted major discrepancies. Incomplete pre-briefing of student's next mission, if required.

Table 2.5. Aircraft Commander Certification Evaluation Areas.

Area 34, Aircraft Commander Responsibilities.	
Q	Effectively determined equipment required for mission and coordinated for waiver to operate with degraded capability, if required. Consistently decided to start, continue or delay mission based on input from appropriate sources. Kept command and control (C2) agencies apprised of mission status changes. Effectively coordinated support activities to ensure timely mission activity flow.
Q-	Occasionally misinterpreted maintenance status regarding mission requirements, but did not significantly impact mission accomplishment. Unsure of procedures to obtain waiver to operate with degraded capability. Slow to make decisions regarding mission continuation. Did not consistently communicate status and intentions to C2 functions. Poor coordination with support agencies disrupted mission flow.
U	Unable to determine equipment or waiver required for mission performance. Failed to make proper decision to start, continue or delay mission and/or did not communicate mission essential information to C2 agencies. Ineffective support function coordination precluded mission accomplishment.
Area 35, Enroute Procedures/Fuel Conservation.	
Q	Continually coordinated crew activities during flight (e.g., work/rest plans) to maximize mission effectiveness. Monitored mission progress and aware of possible impacts at all times. Possessed a high level of knowledge of all applicable aircraft publications and other governing directives and understood how to apply both to enhance fuel conservation. Successfully applied fuel conservation procedures in all areas of the mission.
Q-	Slow to coordinate crew activities during flight or ineffective use of crew resources. Had difficulty recognizing or planning for unexpected occurrences that may affect mission. Possessed some knowledge of applicable aircraft publications and other governing directives and understood how to apply both to enhance fuel conservation. Successfully applied some fuel conservation procedures, but failed to apply fuel conservation procedures in all areas of the mission.
U	Failed to coordinate crew activities in flight which negatively impacted or prevented mission accomplishment. Failed to recognize impact of changing circumstances on mission performance or did not adequately adapt to complete the mission. Unaware of fuel conservation procedures. Failed to apply any fuel conservation procedures in any area of the mission.

Area 36, Descent/Arrival.	
Q	Effective planning and coordination among crewmembers provided for smooth arrival. Coordinated requirements and intentions to C2 agencies in accordance with current directives.
Q-	Slow to plan or coordinate arrival activities. Deviations occurred, but did not preclude successful arrival. Late communication with C2 agencies.
U	Could not plan or coordinate for successful arrival. Failed to coordinate crew activities. Did not communicate with destination C2 agencies, negatively impacting mission accomplishment.
Area 37, Landing. See Area 16 tolerances and the following:	
Q	Planned and performed landing in accordance with directives. Evaluated airplane configuration, arrival weather, and other variables and corrected appropriately.
Q-	Marginal evaluation of external factors on airplane performance during landing detracted from effectiveness.
U	Did not evaluate external variables or did not take appropriate action based on those factors. Exceeded Q- criteria.
Area 38, Post-Flight/Remain Over-Night Procedures.	
Q	Accomplished all post-flight activities in a timely manner. Coordinated with C2 agencies for subsequent mission tasking. Managed crew activities during crew rest to provide necessary rest and crewmember availability.
Q-	Slow to perform post-flight duties. Marginal coordination with C2 agencies.
U	Could not accomplish post-flight duties without impacting subsequent mission. Failed to coordinate mission requirements and/or tasking with C2 agencies. Poor management of crew during crew rest impacted crewmember availability.
Area 39, Authentication/Aircraft Security.	
Q	Demonstrated thorough knowledge of authentication documents and procedures. Ensured aircraft security in accordance with current directives and/or mission tasking requirements.
Q-	Displayed satisfactory knowledge of authentication documents and procedures. Limited understanding of aircraft security requirements but met minimum aircraft security requirements.
U	Unable to demonstrate proper use of authentication materials. Unaware of requirements for aircraft security. Failed to ensure basic aircraft security measures that may/did lead to a security issue degrading the mission.
Area 40, Engines Running On/Offload (ERO). (verbal)	
Q	Demonstrated thorough knowledge of ERO procedures. Planned and coordinated crew activities to minimize ground time and ensure safe operation. Monitored on/offload and provided guidance as required. Accomplished all procedures IAW applicable directives

	and checklists. Monitored communication with external agencies (e.g., C2, Air Traffic Control , Weather) for subsequent mission segment.
Q-	Displayed satisfactory knowledge of ERO procedures. Marginal planning and/or crew coordination resulted in minor confusion or delays during operation. Minor omissions or errors in procedures.
U	Unacceptable level of ERO procedures knowledge. Poor or nonexistent planning precluded successful accomplishment of ERO. Failure to monitor operation resulted in potentially dangerous situation. Failed to perform procedures in accordance with directives and/or major omissions/errors in checklist items.

Table 2.6. Air Refueling Evaluation Areas.

Area 41, Receiver Air Refueling--General. Includes subareas: 41A, Rendezvous; 41B, Closure; 41C, Position/Control; 41D, Overrun Procedures (verbal); 41E, Breakaway Procedures; 41F, AR Emergency Procedures, and 41G, Right-seat AR (IP only).	
Q	Established and maintained proper refueling position. Aircraft control was positive and smooth. Demonstrated a complete knowledge of rendezvous and closure procedures. Performed all procedures in accordance with applicable checklists and other governing directives.
Q-	Slow to recognize and apply needed corrections to establish and maintain proper refueling position. Aircraft control was not always positive and smooth, but was adequate. Accomplished rendezvous and closure with deviations that did not affect safety of flight or the successful completion of air refueling. Performed all procedures in accordance with applicable checklists and other governing directives with only minor omissions or deviations.
U	Erratic or dangerous in the pre-contact/refueling position. Had deviations/omissions that affected safety of flight and/or successful completion of air refueling. Did not perform all procedures in accordance with applicable checklists and other governing directives or omitted major items. Exceeded Q- limits.

Table 2.7. Tactics Evaluation Areas.

Area 42, Knowledge of Tactical Procedures.	
Q	Demonstrated satisfactory knowledge of defensive systems/tactics, thorough knowledge of procedures and restrictions. Properly set up the defensive system and used appropriate settings. Applied appropriate tactics to avoid the threat and minimize exposure. Prepared and executed mission in compliance with associated directives.
Q-	Demonstrated satisfactory knowledge of procedures and restrictions. Prepared and executed mission in compliance with associated directives, but minor errors or omissions detracted from mission effectiveness, proper defensive system set up, or was unfamiliar with appropriate tactics for given scenario.

U	Displayed inadequate knowledge of procedures and restrictions. Displayed an unsatisfactory knowledge of defensive systems. Major errors or omissions precluded compliance with directives or safe mission accomplishment.
Area 43, Tactical Maneuvers. Includes subareas: 43A, Departure; 43B, Arrival-Low; 43C, Arrival-High.	
Q	Planned, briefed and performed maneuver safely and in accordance with published procedures. Timely and appropriate adjustments made to position and power resulted in stable short final and safe touch down.
Q-	Planned, briefed and performed maneuver safely. There were minor inconsistencies with published procedures. Some missing or inappropriate adjustments to position or energy management. Maneuver still resulted in stable short final.
U	Maneuver flown unsafely or not in accordance with either published procedures, or briefing. Consistently missing appropriate or timely corrections. Maneuver resulted in unstable final approach or attempted landing under unsafe parameters.

2.9. Unit Evaluation Areas. Include MAJCOM-specific and local evaluation areas if any. Include the evaluation areas on the AF Form 3862 (see [paragraph 1.14.](#)).

Chapter 3

FLIGHT ENGINEER EVALUATIONS

3.1. General. This chapter standardizes initial (first and second flight engineer), periodic and re-qualification evaluations, including requirements for qualification, mission, and instructor evaluations. The term second flight engineer refers to those flight engineers who have successfully completed the C-5 Flight Engineer Initial Qualification course and the aircraft evaluation conducted at the conclusion of flying training.

3.2. Qualification/Mission Evaluations (Initial, Periodic, and Requalification). Evaluators will conduct first flight engineer and higher qualification/mission evaluations on a minimum of two sorties to complete all areas in the flight engineer and scanner crew positions. Second flight engineer qualification evaluations require a minimum of one sortie in the scanner position. **(T-3)**

3.3. Instructor Evaluations (Periodic and Requalification). Flight examiners will place particular emphasis on the examinee's ability to recognize student difficulties and provide timely, effective corrective action. **(T-3)**

3.3.1. To initially qualify as an instructor, the crew member must successfully complete a dedicated initial instructor evaluation. **(T-3)** As a minimum, include all subareas of the GENERAL and INSTRUCTOR areas of the Flight Evaluation Worksheet. When students are not available, the flight examiner may serve as the student for the purpose of evaluating the examinee's instructional ability.

3.3.2. Flight engineers who desire to realign their QUAL/MSN evaluation during the initial instructor evaluation (update qualification expiration date) must complete all areas of the Flight Evaluation Worksheet and requisite examinations. **(T-3)**

3.4. Emergency Procedures Evaluations (EPEs). Accomplish the EPEs in an ATD, during the preflight briefing, or during the flight evaluation.

3.5. Additional Information. Flight examiners will not conduct evaluations when scheduled as primary aircrew members. **(T-3)**

3.6. Flight Engineer Grading Criteria. For Qualification/Mission Evaluations, include all areas of the Flight Evaluation Worksheet under GENERAL, QUAL COMBINED, QUAL SCANNER, QUAL FLIGHT ENGINEER, MISSION, and INSTRUCTOR.

Table 3.1. Flight Engineer General Evaluation Areas.

Area 1, Directives and Publications.	
Q	Possessed a high level of knowledge of all applicable directives and publications and understood how to apply both to enhance mission accomplishment. Required publications (paper or electronic) were current and properly posted.
Q-	Unsure of some directives but could locate information in appropriate publications. Required publications (paper or electronic) were current but improperly posted.

U	Unaware of established directives and/or could not locate them in the appropriate publication in a timely manner. Required publications (paper or electronic) were not current.
Area 2, Mission Preparation/Planning.	
Q	Ensured personal and physical mission readiness. Ensured professional equipment was available and serviceable. Checked all factors applicable to flight such as weather, NOTAMs, alternate airfields, airfield suitability, fuel requirements, charts, etc. Attended all required briefings. Complied with planning directives before flight.
Q-	Made minor errors or omissions in checking all factors that could have detracted from mission effectiveness. Did not fully comply with directives, but did not detract from safety or mission effectiveness.
U	Made major errors or omission that would have prevented safe and/or effective mission execution. Professional equipment was missing or unserviceable. Failure to check factors impacting mission execution resulted in delays to the mission.
Area 3, Safety Consciousness (Critical).	
Q	Aware of and complied with all factors required for safe airplane operation and mission accomplishment.
U	Not aware of or did not comply with all factors required for safe airplane operation. Operated aircraft systems in a dangerous manner.
Area 4, Judgment/Compliance (Critical).	
Q	Exercised sound judgment when executing assigned duties. Prepared and completed mission in compliance with directives.
U	Failed to exercise sound judgment regarding specific situations or mission requirements. Failed to comply with directives.
Area 5, Crew Resource Management (CRM)/Threat and Error Management (TEM). CRM/TEM, IAW AFMAN 11-290, applicable MAJCOM Supplements, and AF Form 4031.	
Q	Proactively applied appropriate/established CRM skills and TEM concepts throughout the flight/mission. Ensured safe/effective mission accomplishment by anticipating, recognizing, and mitigating relevant threats. Identified and mitigated own and other crewmembers' errors via the proper use of monitoring/crosschecking procedures and through the employment of applicable, established VVM practices/procedures.
Q-	Reactively and inconsistently, or inadequately applied appropriate/established CRM skills and TEM concepts but did not allow those deficiencies to detract from mission accomplishment and/or flight safety. Unreliably and/or inadequately anticipated, identified, or mitigated relevant threats and/or own or other crewmembers' inconsequential errors.
U	Did not apply appropriate/established CRM skills and TEM concepts to ensure safe/effective mission accomplishment. Failed to anticipate, identify, or mitigate relevant threats and/or own or other crewmembers' consequential errors.

Area 6, Communication Procedures.	
Q	Complete knowledge of and compliance with correct communication procedures. Timely communication of checklists. Correctly monitored the interphone and primary radio. Makes interphone transmissions concise with proper terminology. Monitored interphone and primary radio.
Q-	Occasional deviation or omissions from required procedures, calls or acknowledgments. Limited operational knowledge of communication equipment that did not detract from mission effectiveness. Inadvertently missed monitoring interphone or primary radio, but did not impact mission.
U	Incorrect procedures or poor performance caused confusion. Failure to communicate checklist in a timely manner degraded mission accomplishment. Displayed poor operational knowledge or inability to operate communication equipment. Did not monitor the interphone and primary radio.
Area 7, Emergency Equipment/Life Support Systems/Egress.	
Q	Displayed thorough knowledge of location and use of life support systems and emergency equipment. Demonstrated and emphasized the proper operating procedures used to operate airplane egress devices such as doors, windows, hatches, slide rafts, escape ropes and other emergency equipment installed on the airplane.
Q-	Limited knowledge of location and use of life support systems and emergency equipment. Unsure of the proper operating procedures used to operate some of the aircraft egress devices.
U	Displayed unsatisfactory knowledge of location and use of life support systems and equipment. Unable to properly operate aircraft egress devices.
Area 8, Knowledge/Completion of Forms.	
Q	All required forms were complete, accurate, readable, accomplished on time and IAW applicable directives. Effectively communicated information appropriate for an accurate debrief of significant events to applicable agencies (maintenance, etc.).
Q-	Minor errors on forms did not affect conduct of the mission. Incorrectly or incompletely reported some information due to minor errors, omissions, and/or deviations.
U	Did not accomplish required forms. Omitted or incorrectly reported significant information to applicable agencies due to major errors, omissions, and/or deviations.
Area 9, Airmanship/Flight Discipline. (Critical)	
Q	Executed the assigned mission in a timely, efficient manner. Demonstrated strict professional flight and crew discipline throughout all phases of flight. Participated in the flight with a sense of understanding and comprehension.
U	Untimely or inappropriate decisions/recommendations, or lack thereof, degraded or prevented accomplishment of the mission or part of the mission. Resources were not

	always effectively used to the point that specific mission objectives were not achieved. Failed to exhibit strict flight and crew discipline.
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Table 3.2. Qualification Evaluation Areas (Combined).

Area 10, Airplane and Systems.	
Subarea 10A, Systems Knowledge.	
Q	Demonstrated through knowledge of the airplane and airplane systems. Component location was satisfactory. Use of schematics for malfunctions analysis and system operation was satisfactory.
Q-	Demonstrated limited knowledge of airplane systems. Component location was satisfactory. Use of schematics for malfunction analysis and system operation was marginal.
U	Demonstrated unsatisfactory knowledge of airplane systems. Component location was unsatisfactory. Use of schematics for malfunction analysis and system operation was unsatisfactory.
Subarea 10B, Airplane Systems Procedures.	
Q	Demonstrated thorough knowledge of aircraft systems operations. Aircraft systems were utilized effectively during mission. Demonstrated a thorough knowledge of systems limitations.
Q-	Demonstrated limited knowledge of aircraft systems operations. Aircraft systems were not utilized effectively during mission. Demonstrated a limited knowledge of systems limitations.
U	Demonstrated unsatisfactory knowledge of aircraft systems operations. Aircraft systems ineffectively used during mission. Demonstrated unsatisfactory knowledge of systems limitations.
Area 11, Airplane Ground Support.	
Q	Effectively communicated information regarding airplane ground support requirements to appropriate agencies (maintenance, fuels, command post, etc.). Completed all requirements without delay to the mission.
Q-	Communicated information regarding airplane ground support requirements to appropriate agencies. Made minor errors or omissions that did not detract from mission timely mission accomplishment.
U	Ineffectively communicated airplane ground support requirements to ground support agencies. Made errors and omissions resulting in mission delays.
Area 12, Takeoff and Landing Data (TOLD)/Performance Data/Departure Planning.	
Q	Demonstrated satisfactory knowledge of TOLD and other standard performance computations and departure planning procedures. All calculations were within MTL/ESD standards.

Q-	Same as above except minor errors were made in calculations outside MTL/ESD standards that did not detract from safety.
U	Demonstrated unsatisfactory knowledge of TOLD or other standard performance computations and departure planning procedures. Calculations were outside of MTL/ESD standards.
Area 13, Quick Turn Inspections.	
Q	Explained, demonstrated, and accomplished all inspections/duties IAW applicable flight manual, checklist and publications.
Q-	Minor deviations to established procedures. Unsure of some directives but could locate information in appropriate publications. Any instance of non-compliance did not jeopardize safety or mission.
U	Unaware of established procedures and/or could not locate them in the appropriate publication in a timely manner. Failed to comply with a procedure that could have jeopardized safety or mission success.
Area 14, Quick Stop.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the flight engineer or scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 15, Emergency Procedures.	
Subarea 15A, Ground Emergencies.	
Q	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used without omissions or errors. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction. Accomplished/explained boldface items without errors or omissions.
Q-	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used but with minor omissions or errors that did not detract from safety or mission effectiveness. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction. Note: N/A for boldface errors or omissions.
U	Emergency situation was not properly analyzed or had undue delay. Incorrect procedures were used for situation. Checklists/procedures were not used or had omissions or errors that detracted from safety or mission effectiveness. Exceeded an operating limitation or required intervention to preclude exceeding limit. Unable or failed to perform and/or explain proper corrective action.
Subarea 15B, Takeoff Emergencies.	

Q	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used without omissions or errors. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
Q-	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used but with minor omissions or errors that did not detract from safety or mission effectiveness. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
U	Emergency situation was not properly analyzed or had undue delay. Incorrect procedures were used for situation. Checklists/procedures were not used or had omissions or errors that detracted from safety or mission effectiveness. Exceeded an operating limitation or required intervention to preclude exceeding limit. Unable or failed to perform and/or explain proper corrective action.
Subarea 15C, In-Flight Emergencies.	
Q	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used without omissions or errors. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
Q-	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used but with minor omissions or errors that did not detract from safety or mission effectiveness. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
U	Emergency situation was not properly analyzed or had undue delay. Incorrect procedures were used for situation. Checklists/procedures were not used or had omissions or errors that detracted from safety or mission effectiveness. Exceeded an operating limitation or required intervention to preclude exceeding limit. Unable or failed to perform and/or explain proper corrective action.
Subarea 15D, Landing Emergencies.	
Q	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used without omissions or errors. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
Q-	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used but with minor omissions or errors that did not detract from safety or mission effectiveness. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
U	Emergency situation was not properly analyzed or had undue delay. Incorrect procedures were used for situation. Checklists/procedures were not used or had omissions or errors that detracted from safety or mission effectiveness. Exceeded an

	operating limitation or required intervention to preclude exceeding limit. Unable or failed to perform and/or explain proper corrective action.
Area 16, Terminal Instrument Procedures.	
Q	Demonstrated satisfactory knowledge of airport diagrams, standard instrument departures (SIDs), approach plates and climb out procedures.
Q-	Same as above except minor interpretation errors were made within MTL/ESD standards that did not detract from safety or mission accomplishment.
U	Same as above except that major errors were made that were not within MTL/ESD tolerances and/or detracted from safety or mission accomplishment.
Area 17, Use of Checklist/Procedures.	
Q	Consistently ensured all appropriate checklists and procedures not covered by other areas/subareas were used and completed in a timely manner without error or omission.
Q-	Completed in an untimely manner or with minor errors or omissions which did not detract from safety or mission effectiveness.
U	Used incorrect checklists/procedures or had errors or omissions which detracted from safety or mission effectiveness. Did not complete checklist prior to event.
Qualification- Scanner	
Area 18, Aircrew/Exterior Inspection.	
Q	Timely completion of all pre-flight checks and procedures without errors or omissions. Proper coordination with maintenance and crew when required. Ensured readiness of aircraft for flight.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to pre-flight a critical component or system. Failed to complete pre-flight in a timely manner. Errors or omissions detracted from safety or mission effectiveness.
Area 19, Before Starting/Starting Engines.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 20, Before Taxi/Taxi.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.

Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 21, Takeoff/After Takeoff Climb.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 22, Climb/Cruise/Descent/App Monitor.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 23, Before Landing/After Landing.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 24, Engine Shutdown/Before Leaving Airplane/Post-Flight.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Qualification – Flight Engineer	
Area 25, Aircrew Inspection.	

Q	Timely completion of all pre-flight checks and procedures without errors or omissions. Proper coordination with maintenance and crew when required. Ensured readiness of aircraft for flight.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to pre-flight a critical component or system. Failed to complete pre-flight in a timely manner. Errors or omissions detracted from safety or mission effectiveness.
Area 26, Before Starting/Starting Engines.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 27, Before Taxi/Taxi.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 28, Takeoff/After Takeoff Climb.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 29, Climb/Cruise/Descent/Approach Monitor.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 30, Before Landing/After Landing.	

Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 31, Engine Shutdown/Before Leaving Airplane/Post-Flight.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 32, Fuel System Management.	
Q	Demonstrated satisfactory knowledge of fuel management procedures.
Q-	Same as above except minor errors were made and errors were within MTL/ESD standards.
U	Demonstrated unsatisfactory knowledge of fuel management. Tolerances were out of MTL/ESD standards.
Area 33, Embedded Diagnostic System (EDS) Operation/Procedures.	
Q	System use as a troubleshooting aid supported mission accomplishment. Thorough knowledge of EDS interactions with test points fault isolation/fault detection (FI/FD).
Q-	System use as a troubleshooting aid was marginal but did not impede mission accomplishment. Limited knowledge of EDS interactions test points (FI/FD).
U	Lack of system use as a troubleshooting aid impeded mission accomplishment. Unsatisfactory knowledge of EDS interactions test points (FI/FD).

Table 3.3. Mission Evaluation Areas.

Area 34, Pushback/Tow/Post Tow.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the flight engineer or scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 35, Block-In.	

Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the flight engineer or scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 36, Kneeling/Unkneeling Operations.	
Q	Timely and accurate completion of all checklists and procedures without errors or omissions from the flight engineer or scanner crew position.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 37, Variant Configuration/Non-Standard Performance Data.	
Q	Timely and accurate completion of performance data.
Q-	Same as above except for minor deviations not to exceed MTL/ESD.
U	Failed to properly or accurately complete data. Errors were outside limitations listed in MTL/ESD or deviations directly detracted from safety or mission effectiveness.
Area 38, Air Refueling.	
Subarea 38A, Air Refueling (AR) Procedures.	
Q	Timely and accurate completion of air refueling data and related forms without errors or omissions.
Q-	Same as above except for minor errors or omissions which did not detract from mission effectiveness.
U	Failed to properly or accurately complete data or forms. Errors or omissions detracted from mission effectiveness.
Subarea 38B, Air Refueling Data/Forms.	
Q	Timely and accurate completion of AR performance data and related forms without errors or omissions.
Q-	Same as above except for minor errors or omissions which did not detract from safety or mission effectiveness.
U	Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.
Area 39, Engine Running On/Off (ERO) Loading.	
Q	Demonstrated thorough knowledge of ERO procedures. Completed procedures without errors or omissions.

Q-	Demonstrated limited knowledge of ERO procedures. Minor errors or omissions did not detract from safety or mission effectiveness.
U	Demonstrated unsatisfactory knowledge of ERO procedures. Errors or omissions detracted from safety or mission effectiveness.
Area 40, Adverse Weather Operations.	
Q	Demonstrated thorough knowledge of Adverse Weather Operations. Effectively applied knowledge to support safe mission execution. Completed procedures without errors or omissions.
Q-	Demonstrated limited knowledge of procedures. Minor errors or omissions did not detract from safety or mission effectiveness.
U	Demonstrated unsatisfactory knowledge of ERO procedures. Errors or omissions detracted from safety or mission effectiveness.
Area 41, Defensive Systems Operations.	
Q	Demonstrated thorough knowledge of Defensive Systems procedures. Effectively applied knowledge to support safe mission execution. Completed procedures without errors or omissions.
Q-	Demonstrated limited knowledge of procedures. Minor errors or omissions did not detract from safety or mission effectiveness.
U	Demonstrated unsatisfactory knowledge of procedures. Errors or omissions detracted from safety or mission effectiveness.
Area 42, Combat Entry/Exit Procedures.	
Q	Demonstrated thorough knowledge of Combat Entry/Exit procedures. Effectively applied knowledge to support safe mission execution. Completed procedures without errors or omissions.
Q-	Demonstrated limited knowledge of procedures. Minor errors or omissions did not detract from safety or mission effectiveness.
U	Demonstrated unsatisfactory knowledge of procedures. Errors or omissions detracted from safety or mission effectiveness.

Table 3.4. Flight Engineer Instructor Evaluation Areas.

Area 43, Preparation.	
Q	Reviewed student's present level of training and defined mission events to be performed. Devised and executed a thoroughly planned training profile. Effectively utilized available resources to maximize accomplished training.
Q-	Devised and executed a planned training profile. Errors, omissions, or lack of planning caused errors that did not detract from training accomplishment.

U	Did not review student's past performance. Lacked an effectively planned training profile. Failed to effectively utilize available resources to the extent that it detracted from training accomplishment.
Area 44, Training Execution.	
Subarea 44A, Instructor Ability (Critical).	
Q	Demonstrated the ability to communicate effectively. Provided appropriate guidance when necessary. Planned ahead and made timely decisions. Identified and corrected potentially unsafe actions/situations.
U	Unable to effectively communicate or provide timely feedback to the student. Gave instruction that was unsafe or contradicted published directives. Did not provide corrective action when necessary. Did not plan ahead or anticipate student problems. Did not identify unsafe actions/situations in a timely manner. Made no attempt to instruct.
Subarea 44B, Student Management (Critical).	
Q	Effectively managed student actions during all phases of instruction. Applied corrective actions when required to facilitate on-time mission execution or safety.
U	Failed to manage student actions. Failed to apply corrective actions leading to a detraction from training accomplishment, on-time mission execution or safety.
Subarea 44C, Student Feedback/Debriefing.	
Q	Demonstrated an effective ability to reconstruct the flight(s), offered mission analysis, and provided guidance where appropriate. Training grade reflected the actual performance of the student relative to the standard.
Q-	Same as above except minor errors or omissions were made that did not detract from the overall effectiveness of feedback/debriefing.
U	Failed to adequately critique student or analyze the mission. Training grade did not reflect actual performance of student. Overlooked or omitted major discrepancies. Errors impacted the overall effectiveness of feedback/debriefing.
Area 45, Training Documentation.	
Q	All required forms were accomplished on time and IAW applicable directives. Demonstrated satisfactory knowledge of forms/publications. Training documentation contained no errors or omissions.
Q-	Required forms were completed with some delay but IAW applicable directives. Displayed limited knowledge of forms/publications. Minor errors or omissions in training documentation.
U	Did not accomplish required forms. Knowledge of forms/publications was unsatisfactory. Omitted or incorrectly documented significant training information.

3.7. Unit Evaluation Areas. Include MAJCOM-specific and local evaluation areas if any. Include the evaluation areas on the AF Form 3862 (see [paragraph 1.14.](#)).

Chapter 4

LOADMASTER EVALUATIONS

4.1. General. This chapter standardizes initial, periodic, and re-qualification evaluations, including requirements for qualification, mission, and instructor evaluations.

4.2. Qualification/Mission Evaluations (Initial, Periodic, and Requalification). Include all areas under GENERAL, QUALIFICATION/MISSION, TACTICS and appropriate written examinations.

4.2.1. Initial and Re-qualification evaluations:

4.2.1.1. The evaluation profile requires a minimum of two legs to include a complete preflight, in-flight duties, postflight duties and two cargo on/offload operations or a combination of both.

4.2.1.2. Qualification (QUAL) and mission (MSN) evaluations are evaluated on single mission. Upon successful completion of the QUAL/MSN evaluation, the examinee's duty position on the qualifying AF Form 8 is identified as Mission Qualified Loadmaster (ML) and the loadmaster is qualified to perform loadmaster duties unsupervised. Include an expiration date.

4.2.1.3. Initial qualification (QUAL) and initial mission (MSN) evaluations are evaluated on single mission. Upon successful completion of the initial QUAL/MSN evaluation, the examinee's duty position on the qualifying AF Form 8 is identified as "ML" and the loadmaster is qualified to perform loadmaster duties unsupervised. Include an expiration date.

4.2.2. Periodic Evaluations:

4.2.2.1. The examinee will perform loadmaster duties during a cargo onload or offload and an enroute segment to complete the evaluation. **(T-3)** If a load is not available for a periodic evaluation, the evaluator may elect to statically load cargo upon completion of the flight portion. **(T-3)**

4.2.2.2. If both periodic evaluations are successfully completed on the same flight, use a single line entry under flight phase indicating "QUAL/MSN" and date. Use separate line entries if more than one flight is necessary to complete evaluation.

4.3. Instructor Evaluations (Periodic and Requalification). Flight examiners should place particular emphasis on the examinee's ability to recognize student difficulties and provide timely, effective corrective action. Evaluate an instructor candidate while instructing a student. Include all areas of the Flight Evaluation Worksheet under GENERAL, QUALIFICATION/MISSION, TACTICS, and INSTRUCTOR.

4.3.1. To initially qualify as an instructor, the crew member must successfully complete a dedicated initial instructor evaluation. **(T-3)** Accomplish initial instructor evaluations during actual instructional missions when possible. As a minimum, include all subareas of the GENERAL and INSTRUCTOR areas of the Flight Evaluation Worksheet. When students are not available, the flight examiner may serve as the student for the purpose of evaluating the examinee's instructional ability.

4.3.2. Loadmasters who desire to realign their QUAL/MSN evaluation during the initial instructor evaluation (update qualification expiration date) must complete all areas of the Flight Evaluation Worksheet and required written examinations. **(T-3)**

4.4. Emergency Procedures Evaluations (EPEs). Accomplish the EPEs in an ATD, during the preflight briefing, during the flight evaluation, or any combination of these.

4.5. Additional Information. Flight examiners will not conduct evaluations when scheduled as primary aircrew members. **(T-3)**

4.6. Loadmaster Grading Criteria. When evaluating areas or subareas, which have been determined to be less than Q, they may or may not affect another area. Example: U in Area 15, Proper Restraint. Individual could also have been graded U in Area 3, Use of Checklist; Area 13, On/Offload Procedures; or Area 21, Aircraft Limitations. Each area is affected by not having proper restraint. Instead of all items being considered unsatisfactory, identify the area that is most adversely affected.

Table 4.1. Loadmaster General Evaluation Areas.

Area 1, Directives and Publications.	
Q	Possessed a high level of knowledge of all applicable aircraft directives and publications and understood how to apply both to enhance mission accomplishment. Required publications (paper or electronic) were current and properly posted.
Q-	Unsure of some directives but could locate information in appropriate publications. Required publications (paper or electronic) were current but improperly posted.
U	Unaware of established directives and/or could not locate them in the appropriate publication in a timely manner. Required publications (paper or electronic) were not current.
Area 2, Mission Preparation/Planning.	
Q	Accomplished pre-departure duties required by AFMAN 11-2C-5V3 with only minor deviations which did not detract from the efficient conduct of mission. Maintain professional/ personal equipment serviceable and documents current.
Q-	Explained/ demonstrated pre-departure duties with minor omissions, deviations or errors that detracted from the overall mission. Condition of personal and professional equipment affected task completion or were not current IAW applicable directives.
U	Major omissions, deviations or errors observed during demonstration of pre-departure duties or explanation of procedures which could have or did affect safe mission accomplishment. Condition of equipment or documents could have or affected safe accomplishment of mission.
Area 3, Use of Checklists.	
Q	Accomplished all loadmaster checklists when required IAW appropriate flight manual with minor deviations which did not affect the safe accomplishment of missions.
Q-	Minor deviation or omissions from checklist items, which detracted from overall mission.

U	Significant deviations or omissions to checklist which could have or affected the safe operation of equipment or execution of duties.
Area 4, Safety Consciousness (Critical).	
Q	Aware of and complied with all safety factors required for safe cargo or passenger loading, aircraft operation and mission accomplishment.
U	Not aware of or did not comply with all safety factors required for, aircraft operation or mission accomplishment.
Area 5, Judgement/Compliance/Flight Discipline (Critical).	
Q	Exercised sound judgement when executing assigned duties, resulting in successful mission accomplishment.
U	Failed to determine appropriate course of action to be taken in regard to specific situations or mission requirements.
Area 6, Crew Resource Management (CRM)/Threat and Error Management (TEM). CRM/TEM, IAW AFI 11-290, applicable MAJCOM Supplements, and AF Form 4031.	
Q	Proactively applied appropriate/established CRM skills and TEM concepts throughout the flight/mission. Ensured safe/effective mission accomplishment by anticipating, recognizing, and mitigating relevant threats. Identified and mitigated own and other crewmembers' errors via the proper use of monitoring/crosschecking procedures and through the employment of applicable, established VVM practices/procedures.
Q-	Reactively and inconsistently, or inadequately applied appropriate/established CRM skills and TEM concepts but did not allow those deficiencies to detract from mission accomplishment and/or flight safety. Unreliably and/or inadequately anticipated, identified, or mitigated relevant threats and/or own or other crewmembers' inconsequential errors.
U	Did not apply appropriate/established CRM skills and TEM concepts to ensure safe/effective mission accomplishment. Failed to anticipate, identify, or mitigate relevant threats and/or own or other crewmembers' consequential errors.
Area 7, Emergency/Life Support Equipment.	
Q	Explain the quantity, location, preflight and proper use of the emergency/survival equipment IAW appropriate flight manual and current directives. Explain or demonstrated necessary action when aircraft is missing required equipment.
Q-	Minor difficulty explaining the quantity, location, preflight and proper use of the emergency/survival equipment IAW appropriate flight and current directives. Displayed limited knowledge of procedures required to replace missing equipment.
U	Displayed major difficulty explaining the quantity, location, preflight and proper use of the emergency/survival equipment IAW appropriate flight manual and current directives. Failed to demonstrate or lack the knowledge of procedures required to replace missing equipment. Refer to the preflight checklists.
Area 8, Knowledge/Completion of Forms.	

Q	All required forms were complete, accurate readable, accomplished on time and IAW applicable directives. Demonstrated satisfactory knowledge of forms required for mission accomplishment.
Q-	Minor errors on forms did not affect conduct of the flight or mission. Incorrectly or incompletely reported some information due to minor errors, omissions, and or deviations. Displayed limited knowledge of forms required for mission accomplishment.
U	Did not accomplished required forms. Omitted or incorrectly reported significant information due to major errors, omissions, and deviations. Knowledge of mission required forms was inadequate.
Area 9, Airmanship (Critical).	
Q	Executed the assigned mission in a timely, efficient manner. Demonstrated strict professional flight and crew discipline throughout all phases of flight. Participated in the flight with a sense of understanding and comprehension.
U	Untimely or inappropriate decisions/recommendations, or lack thereof, degraded or prevented accomplishment of the mission or part of the mission. Resources were not always effectively used to the point that specific mission objectives were not achieved. Failed to exhibit strict flight and crew discipline.
Area 10, Briefings.	
Q	Briefings effectively organized and presented in a logical sequence. Covered all pertinent items clear concise manner IAW applicable directives. Effectively used briefing contained in appropriate flight manual and authorized briefing aids.
Q-	Allowed omission of items pertinent, but not critical to the mission. Briefings lacked continuity or contained unnecessary repetition. Some difficulty communicating clearly. Did not make effective use of available aids.
U	Failed to conduct required briefings. Failed to use briefing aids. Omitted essential items or did not correct erroneous information that could affect mission accomplishment. Demonstrated lack of knowledge of subject.

Table 4.2. Qualification/Mission Evaluation Areas.

Area 11, Aircraft Preflight/Thru-flight/Configuration.	
Q	Explained, demonstrated, and accomplished all inspections/duties IAW applicable flight manual, checklist, and publications.
Q-	Minor deviations to established procedures. Unsure of some directives but could locate information in appropriate publications. Any instance of non-compliance did not jeopardize safety or mission.
U	Unaware of established procedures and/or could not locate them in the appropriate publication in a timely manner. Failed to comply with a procedure that could have jeopardized safety or mission success.

Area 12, Load Planning/Inspection.	
Q	Explain, demonstrate, calculate, and accomplish all steps required to complete cargo load planning and inspections, considering aircraft structure/weight and balance limitations IAW applicable flight manuals, applicable loading manual, AFMAN 24-604, <i>Preparing Hazardous Materials for Military Air Shipments</i> , and AFMAN 11-2C-5V3.
Q-	Difficulty explaining, demonstrating, calculating, and accomplishing all steps required to complete cargo load planning and inspections, considering aircraft structural/weight and balance limitations IAW applicable technical orders or publications.
U	Unable to explain, demonstrate, calculate, or accomplish all steps required to complete cargo load planning and inspections.
Area 13, On/Offloading Procedures.	
Q	On/Offloading procedures were accomplished with only minor deviation which did not detract from the overall efficient conduct of the mission or the use of equipment.
Q-	On/Offloading procedures were accomplished with only minor omissions, deviations, or errors which detracted from the overall mission.
U	Failed to accomplish on/offload procedures or major deviations, omissions or errors were noted which could have or did affect the successful accomplishment of the mission.
Area 14, Engines Running Onload/Offload (ERO).	
Q	Can accomplish and/or explain procedures and restrictions of engines running on/offload IAW applicable flight manual and AFMAN 11-2C-5V3.
Q-	Minor errors or omissions observed during the accomplishment or explanation of ERO procedures.
U	Major omissions or errors observed during the accomplishment or explanation of ERO procedures, which could have or did detract from the safe conduct of the mission.
Area 15, Proper Restraint.	
Q	Explained, demonstrated, calculated, and applied cargo restraint requirements IAW applicable loading manuals and current directives.
Q-	Minor errors noted in the computation and application of required restraint that did not affect the safe execution of the mission. Did not fully understand the principle of restraint.
U	Failed to correctly calculate and/or apply the correct amount of restraint to a given item. Did not understand and could not state the principles of restraint.
Area 16, Passenger Handling.	

Q	Demonstrated thorough knowledge of required documentation, passenger boarding sequence, escape slide limitations, seating restrictions, emergency airlift of passengers, and the required number of loadmasters required for a given number of passengers. Complied with passenger on/offload checklist, meal service, and in-flight headset clearance procedures IAW applicable technical orders or publications.
Q-	Demonstrated limited knowledge of the above areas. Minor deviations or omissions to passenger on/offload checklist, in-flight headset clearance procedures, and meal service procedures that detracted from the overall mission.
U	Unsatisfactory knowledge of required documentation, passenger boarding sequence, escape slide limitations, seating restrictions, emergency airlift of passengers, and the required number of loadmasters required for a given number of passengers. Procedures were not complied with which jeopardized passenger safety or control.
Area 17, Weight and Balance.	
Q	Explain and demonstrate the proper calculations required to compute aircraft weight and balance IAW applicable loading manuals, AFMAN 11-2C-5V3, and current directives. DD Form 365-4, <i>Weight and Balance Clearance Form</i> , or automated weight and balance form completed IAW MTL/ESD tolerances. Did not exceed gross weight or center of gravity limits for takeoff and landing. Tolerance: 1000 pounds \pm 1% of Mean Aerodynamic Chord.
Q-	Errors/omissions on DD Form 365-4 or automated weight and balance form which did not affect safety of flight but did detract from the overall mission.
U	Failed to complete DD Form 365-4 or automated weight and balance form within the above tolerance. Exceeded aircraft gross takeoff/center of gravity limits.
Area 18, Systems Knowledge/Operation. Includes subareas 18A, Oxygen; 18B, Ramps and Doors; 18C, Kneeling; 18D, Winching; 18E, Radios/Interphone/PA; 18F, Electrical /External Power; 18G, Auxiliary Power Unit/Air Turbin Motor (APU/ATM); 18H, Hydraulics; 18I, Environmental.	
Q	Demonstrated thorough knowledge of system components, functions, and limitations. Analyze simulated or actual malfunctions and applied appropriate corrective action. Properly identified the status of related systems IAW applicable flight manual.
Q-	Demonstrated adequate knowledge of system components, functions, and limitations. Minor deviations or errors were noted when analyzing simulated or actual malfunctions and applying corrective actions. Adequately determined status of related systems.
U	Demonstrated inadequate knowledge of system components, functions, and limitations. Unable to analyze simulated or actual malfunctions or applied improper corrective action. Could not determine status of related system.
Area 19, Knowledge of Hazardous Cargo Handling.	
Q	Explained or complied with procedures for airlifting hazardous cargo, in-flight hazardous cargo incidents, fuel spills/leak, and tactical or contingency operations. Stated fuel tank capacities, waiver/deviation requirement, isolated parking requirements and complied with or applied the segregation of hazardous cargo as

	outlined in the compatibility chart of AFMAN 24-604, <i>Preparing Hazardous Materials for Military Air Shipments</i> , AFMAN 11-2C-5V3, applicable loading manual, and current directives.
Q-	Understood hazardous cargo procedures but made minor deviations stating them. Could comply with the provision of AFMAN 24-604, and/or follow the procedures for air movement of hazardous cargo under tactical, contingency or emergency condition.
U	Did not understand hazardous cargo procedures IAW AFMAN 24-604, AFMAN 11-2C-5V3, or applicable technical orders.
Area 20, Ground Support Equipment.	
Q	Explained or demonstrated the ability to operate electrical ground power units. Demonstrated or explained the steps necessary to apply external electrical, hydraulics, or pneumatic power to aircraft IAW applicable flight manual.
Q-	Difficulty explaining or demonstrating the ability to operate electrical power units. Displayed limited knowledge of applying external electrical, hydraulic and pneumatic power to the aircraft or minor deviation from procedures contained in the flight manual.
U	Unable to explain or operate electrical ground power unit. Could not follow the checklist concerning applying external power to the aircraft.
Area 21, Aircraft Limitations.	
Note: Aircraft limitations may include, but are not limited to, overhang clearances, projection clearances, ramp crest clearances, vehicle critical dimensions, parking, and overhang clearances, loading area clearance limits, lateral loading floor limits, cargo ramp on/offload floor limits, lateral loading height limits, rubber contact area floor load, non-rubber contact area floor load, steel and hard rubber wheel, floor loads, tracked vehicle floor load, restricted areas for floor loads, allowable wheel load over tiedown ring pans, roller conveyor loads, rolling shoring requirements, parking shoring requirements, sleeper shoring requirements, approach shoring requirements, and vehicle center of gravity.	
Q	Explained, computed, and applied calculations for aircraft loading limitations IAW applicable loading manual.
Q-	Minor difficulty explaining, or errors computing, and applying calculations for aircraft loading limitation that could have or did detract from mission.
U	Major difficulty explaining procedures or significant errors computing and applying calculations for aircraft loading which affected the successful completion of mission.
Area 22, Fleet Service/Comfort Pallet Equipment.	
Q	Accomplished the inventory of meals; maintained visibility of fleet service equipment/supplies as recorded on fleet service checklist and complied with fleet service procedures. Explained procedures for the recovery of and or reported missing equipment IAW AFMAN 11-2C-5V3.

Q-	Minor omission noted during the inventory of meals and supplements, did not fully comply with fleet service procedures outlined in AFMAN 11-2C-5V3.
U	Major omission noted during the inventory of meals and supplement. Did not comply with fleet service procedures that did affect the successful accomplishment of mission.
Area 23, Boldface Emergency Procedures (Critical).	
Q	All bold print items were immediately completed or stated without error.
U	Incorrect sequence, unsatisfactory response, or unsatisfactory performance of bold face items.
Area 24, Other Emergency Procedures.	
Subarea 24A, Ground Emergencies: Smoke detector system, nitrogen/FE 1301 fire suppression system, FE 1301, Cargo Fire, APU Fire, Engine Fire On The Ground, Tailpipe Fire, Power Transfer Unit Fire, Fuselage/Wheel Well Fire, Electrical Fire, Ground Evacuation Procedures, Primary/Secondary Exits and reject procedures.	
Q	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used without omissions or errors. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
Q-	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used but with minor omissions or errors that did not detract from safety or mission effectiveness. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
U	Emergency situation was not properly analyzed or had undue delay. Incorrect procedures were used for situation. Checklists/procedures were not used or had omissions or errors that detracted from safety or mission effectiveness. Exceeded an operating limitation or required intervention to preclude exceeding limit. Unable or failed to perform and/or explain proper corrective action.
Subarea 24B, In-flight Emergencies: Smoke/Fumes in the Airplane, In-flight Door Warning (Pressure Door and Unpress Door), Loss of Cabin Pressure, Cargo Jettisoning (Cargo Doors, Manual Override, Minimum Personnel, Restraint Harness), Logistic Configuration (Pallets On Aft Ramp, Platforms/Pallet Trains, Non-palletized Bulk Cargo, Wheeled And Track Vehicles, Procedures), Small Article Jettison (Troop Doors, Procedures), Bailout (Primary/Secondary Exits, Signals), Wheels-Up/Crash Landing (Primary/Secondary Exits, Signals, Procedures), Ditching (Primary/Secondary Exits, Signals, Procedures, Loadmaster Seating In Troop Compartment), normal and alternate location.	
Q	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used without omissions or errors. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.

Q-	Properly analyzed the emergency situation without undue delay. Took and/or recommended appropriate action. Checklists/procedures were used but with minor omissions or errors that did not detract from safety or mission effectiveness. Operated within prescribed limits. Performed and/or explained proper corrective action for each type of malfunction.
U	Emergency situation was not properly analyzed or had undue delay. Incorrect procedures were used for situation. Checklists/procedures were not used or had omissions or errors that detracted from safety or mission effectiveness. Exceeded an operating limitation or required intervention to preclude exceeding limit. Unable or failed to perform and/or explain proper corrective action.

Table 4.3. Loadmaster Instructor Evaluation Areas.

Area 25, Instructor Ability (Critical).	
Q	Demonstrated the ability to communicate effectively. Provided appropriate guidance when necessary. Planned ahead and made timely decisions. Identified and corrected potentially unsafe actions/situations.
U	Unable to effectively communicate or provide timely feedback to the student. Gave instruction that was unsafe or contradicted published directives. Did not provide corrective action when necessary. Did not plan ahead or anticipate student problems. Did not identify unsafe actions/situations in a timely manner. Made no attempt to instruct.
Subarea 25A, Technical Knowledge (Critical).	
Q	Effectively demonstrated correct procedures and system operation. Thorough knowledge of applicable aircraft systems, procedures, publications, and directives.
U	Ineffective or incorrect demonstration of procedures or system operation. Insufficient depth of knowledge about applicable aircraft systems, procedures, and/or proper source material.
Subarea 25B, Student Briefing/Critique (Critical).	
Q	Briefings were well organized, accurate, and thorough. Reviewed student's present level of training and defined mission events to be performed. During the critique, demonstrated an effective ability to reconstruct the flight, offer mission analysis, and provide guidance where appropriate. Training grade reflected the actual performance of the student relative to the standard. Pre-briefed the student's next mission, if required.
U	Briefings were marginal or non-existent. Did not review student's past performance. Failed to adequately critique student or analyze the mission. Training grade did not reflect actual performance of student. Overlooked or omitted major discrepancies. Incomplete pre-briefing of student's next mission, if required.
Subarea 25C, Knowledge of Training Forms.	

Q	All required forms were accomplished on time and IAW applicable directives. Demonstrated satisfactory knowledge of forms/publications. Training documentation contained no errors or omissions.
Q-	Required forms were completed with some delay but IAW applicable directives. Displayed limited knowledge of forms/publications. Minor errors or omissions in training documentation.
U	Did not accomplish required forms. Knowledge of forms/publications was unsatisfactory. Omitted or incorrectly documented significant training information.

Table 4.4. Tactics Evaluation Areas.

Area 26, Tactics Procedures.	
Q	Demonstrated thorough knowledge of procedures for operations in a threat area. Timely and accurate completion of combat entry/exit checklist without errors or omissions.
Q-	Demonstrated limited knowledge of procedures for operations in a threat area. Minor errors or omissions did not detract from safety or mission effectiveness.
U	Demonstrated unsatisfactory knowledge of procedures for operations in a threat area. Failed to properly or accurately complete checklists. Errors or omissions detracted from safety or mission effectiveness.

4.7. Unit Evaluation Areas. Include MAJCOM-specific and local evaluation areas if any. Include the evaluation areas on the AF Form 3862 (see [paragraph 1.14.](#)).

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

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

AFI 11-200, *Aircrew Training, Standardization/Evaluation, and General Operations Structure*, 3 May 2022

AFI 11-215, *USAF Flight Manuals Program*, 25 March 2019

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

AFMAN 11-202 Volume 3, *Flight Operations*, 10 January 2022

AFMAN 11-202 Volume 2, *Aircrew Standardization/Evaluation Program*, 30 August 2021

AFMAN 11-202 Volume 1, *Aircrew Training*, 27 September 2019

AFMAN 11-290, *Cockpit/Crew Resource Management and Threat & Error Management Program*, 25 October 2021

AFMAN 11-218, *Aircraft Operations and Movement on the Ground*, 5 April 2019

AFMAN 11-2C-5 Volume 1, *C-5 Aircrew Training*, 2 Feb 2021

AFMAN 11-2C-5 Volume 3, *C-5 Operations Procedures*, 20 October 2022

AFMAN 24-604, *Preparing Hazardous Materials for Military Air Shipments*, 9 October 2020

AFPD 11-2, *Aircrew Operations*, 31 January 2019

AFTTP 3-1, *Air Force Tactics, Techniques, and Procedures*, 15 June 2023

AFTTP 3-3, *Air Force Tactics, Techniques, and Procedures 3-3. Intergrated Planning and Employment*, 4 February 2022

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

Adopted Forms

AF Form 8, *Certificate of Aircrew Qualification*

AF Form 942, *Record of Evaluation*

AF Form 3862, *Flight Evaluation Worksheet*

AF Form 4031, *CRM/TEM Skills Criteria Training/Evaluation*

DAF Form 673, *Department of the Air Force Publication/Form Action Request*

DAF Form 847, *Recommendation for Change of Publication*

DD Form 365-4, *Weight and Balance Clearance Form*

Abbreviations and Acronyms

APU—Auxiliary Power Unit

AR—Air Refueling

ARIP—Air Refueling Instructor Pilot
ATD—Aircrew Training Device
ATM—Air Turbin Motor
C2—Command and Control
CRM—Crew Resource Management
e-Publishing—the e-Publishing website (www.e-publishing.af.mil)
EDS—Embedded Diagnostic System
EOC—End-of-Course
EPEs—Emergency Procedures Evaluation
ERO—Engine Running On/Offload
FEF—Flight Evaluation Folder
(FI/FD)—Fault Isolation/Fault Detection
GA—Go-Around
IAW—In Accordance With
IFF—Interrogation Friend or Foe
ILS—Instrument Landing System
INSTM—Instrument
INSTR—Instructor
MAP—Missed Approach Plate
MDA—Minimum Descent Altitude
ML—Mission Qualified Loadmaster
MSN—Mission
MTL/ESD—Master Task List/Evaluation Standards Document
MQF—Master Question File
NAVAIDs—Navigational Aids
NOTAMs—Notice To Air Missions
OG—Operations Group
OME—Operational Mission Evaluation
OPR—Office of Primary Responsibility
QUAL—Qualification
PF—Pilot Flying
PM—Pilot Monitoring

RQ—Requalification

SID—Standard Instrument Departures

TEM—Threat and Error Management

TOLD—Takeoff and Landing Data

VDP—Visual Descent Point

VFR—Visual Flight Rule

VVM—Verbalize, Verify, and Monitor

Office Symbols

AF/A3O—Air Force Deputy Chief of Staff Operations

AF/A3T—Headquarters USAF Training and Readiness Directorate

AFFSA/XO—Air Force Flight Safety Standards Agency Flight Operations and Policy Standards

AMC/A3—Air Mobility Command Directorate of Operations

AMC/A3V—Air Mobility Command Aircrew Standardization and Evaluations

AMC/A3VX—Air Mobility Command Aircrew Standardization and Evaluations Airlift Branch

MAJCOM/A3—Major Command Directorate of Operations

MAJCOM/DO—Major Command Director of Operations

OG/CC—Operation Group Commander

Terms

Second Flight Engineer (2nd FE)—Those flight engineers who have successfully completed the C-5 Flight Engineer Initial Qualification (FIQ) course and the aircraft evaluation conducted at the conclusion of flying training.

SPOT—A type of evaluation not intended to satisfy the requirements of a periodic (i.e., INSTM, QUAL, MSN, or INSTR) evaluation.

Tolerances—Range of acceptable deviation from the standard.

Attachment 2

PILOT FLIGHT EVALUATION WORKSHEET EXAMPLE

Figure A2.1. C-5 Pilot Flight Evaluation Worksheet (Sheet 1 of 2).

COMMENTS:
A. Mission Description:
B. Discrepancies:
C. Recommended Additional Training:
D. Additional Comments:
Reviewing Officer's Remarks:
Approving Officer's Remarks:
Additional Reviews:

FLIGHT EVALUATION WORKSHEET				DATE COMPLETED	
NAME (Last, First, Middle Initial)		RANK		SSN	
ORGANIZATION/LOCATION		AIRCRAFT/CREW POSITION C-5M/P		ELIGIBILITY PERIOD	
QUALIFICATION					
GROUND PHASE			FLIGHT PHASE		
EXAMINATION/CHECK	DATE	GRADE	MISSION/CHECK	DATE	
Open Book					
Closed Book					
EPE					
Boldface					
QUALIFICATION LEVEL		ADDITIONAL TRAINING			
QUALIFIED	UNQUALIFIED	DUE DATE(S)		DATE ADDITIONAL TRAINING COMPLETED	
EXPIRATION OF QUALIFICATION		CERTIFYING OFFICIAL, RANK, ORG		SIGNATURE	DATE
<input type="checkbox"/> RESTRICTIONS (Explain in Comments on Back)			<input type="checkbox"/> EXCEPTIONALLY QUALIFIED (Explain in Comments on Back)		
CERTIFICATION					
PRINT NAME/GRADE/ORGANIZATION			SIGNATURE/DATE		
FLIGHT EXAMINER					
REVIEWING OFFICER					
FINAL APPROVING OFFICER					

Figure A2.2. C-5 Pilot Flight Evaluation Worksheet (Sheet 2 of 2).

AREA/SUB-AREAS	Q	Q-	U	REMARKS
GENERAL				
1. Directives and Publications				
2. Mission Preparation Planning/Perform				
3. Use of Checklists				
4. Safety Consciousness (Critical)				
5. Judgement/Compliance (Critical)				
6. CRM/TEM				
7. Communication Procedures				
8. Life Support Systems/Egress				
9. Knowledge/Completion of Forms				
10. Airmanship/Flight Discipline (Critical)				
QUALIFICATION/MISSION				
11. Ground Operations /Taxi				
12. Takeoff				
13. Radar Ops/Wx Avoidance/Windhear				
14. VFR Pattern				
15. Landings				
15A. Full Flap				
15B. Partial Flap				
15C. No Flap				
15D. Engine Out				
15E. Touch-and-Go				
15F. Right Seat				
16. Landing Roll/Braking/Reverse Thrust				
17. All Engine Go-Around (GA)				
18. Engine Out Operations				
19. Engine Out GA/Eng Failure TO Cont.				
20. Boldface Emer Procedures (Critical)				
21. Other Emer Procedures				
22. Systems Ops Knowledge/Limitations				
23. Flight Automation Management				
INSTRUMENT				
24. Instrument Departure/SID				
25. Enroute Navigation				
26. Holding				
27. Use of NAVAIDs				
28. Descent/Arrival				
29. Precision Approaches				
29A. PAR (if available, or verbal)				

AREA/SUB-AREAS	Q	Q-	U	REMARKS
29B. ILS (may be in combined w/29C)				
29C. CAT II ILS (left seat unless IP)				
30. Non-precision Approaches				
30A. NDB				
30B. Localizer/VOR				
30C. ASR				
30D. TACAN				
30E. GPS				
31. Circling Approach				
32. Missed Approach				
INSTRUCTOR				
33. Instructor Ability				
33A. Demo of Maneuvers				
33B. Student Briefing/Critique				
AC CERTIFICATION (initial AC only)				
34. Aircraft Commander Responsibilities				
35. Enroute Procedures/Fuel Conservation				
36. Descent/Arrival				
37. Landing				
38. Post-Flight/ROD Procedures				
39. Authentication/Aircraft Security				
40. Engines Running On Offload (verbal)				
AIR REFUELING				
41. Receiver A.R. - General				
41A. Rendezvous				
41B. Closure (from 1/2 mile)				
41C. Position Control (AP on & off)				
41D. Overrun Procedures (verbal)				
41E. Breakaway Procedures				
41F. AR Emergency Procedures (verbal)				
41G. Right-seat A.R. (IP only)				
TACTICS				
42. Knowledge of Tactical Procedures				
43. Tactical Maneuvers				
43A. Departure				
43B. Arrival - Low				
43C. Arrival - High				
UNIT				

Attachment 3

FLIGHT ENGINEER FLIGHT EVALUATION WORKSHEET EXAMPLE

Figure A3.1. C-5 Flight Engineer Flight Evaluation Worksheet (Sheet 1 of 2).

COMMENTS:

A. Mission Description:

B. Discrepancies:

C. Recommended Additional Training:

D. Additional Comments:

Reviewing Officer's Remarks:

Approving Officer's Remarks:

Additional Reviews:

FLIGHT EVALUATION WORKSHEET				DATE COMPLETED	
NAME (Last, First, Middle Initial)		RANK		SSN	
ORGANIZATION/LOCATION		AIRCRAFT/CREW POSITION C-5M/FE		ELIGIBILITY PERIOD	
QUALIFICATION					
GROUND PHASE			FLIGHT PHASE		
EXAMINATION/CHECK	DATE	GRADE	MISSION/CHECK	DATE	
Open Book					
Closed Book					
EPE					
Boldface					
QUALIFICATION LEVEL		ADDITIONAL TRAINING			
QUALIFIED	UNQUALIFIED	DUE DATE(S)		DATE ADDITIONAL TRAINING COMPLETED	
EXPIRATION OF QUALIFICATION		CERTIFYING OFFICIAL, RANK, ORG		SIGNATURE	DATE
<input type="checkbox"/> RESTRICTIONS (Explain in Comments on Back)			<input type="checkbox"/> EXCEPTIONALLY QUALIFIED (Explain in Comments on Back)		
CERTIFICATION					
PRINT NAME/GRADE/ORGANIZATION			SIGNATURE/DATE		
FLIGHT EXAMINER					
REVIEWING OFFICER					
FINAL APPROVING OFFICER					

Attachment 4

LOADMASTER FLIGHT EVALUATION WORKSHEET EXAMPLE

Figure A4.1. C-5 Loadmaster Flight Evaluation Worksheet (Sheet 1 of 2).

COMMENTS:

A. Mission Description:

B. Discrepancies:

C. Recommended Additional Training:

D. Additional Comments:

Reviewing Officer's Remarks:

Approving Officer's Remarks:

Additional Reviews:

FLIGHT EVALUATION WORKSHEET				DATE COMPLETED	
NAME (Last, First, Middle Initial)			RANK		SSN
ORGANIZATION/LOCATION		AIRCRAFT/CREW POSITION C-5M / LM		ELIGIBILITY PERIOD	
QUALIFICATION					
GROUND PHASE			FLIGHT PHASE		
EXAMINATION/CHECK	DATE	GRADE	MISSION/CHECK	DATE	
Open Book					
Closed Book					
EPE					
Boldface					
QUALIFICATION LEVEL		ADDITIONAL TRAINING			
QUALIFIED	UNQUALIFIED	DUE DATE(S)		DATE ADDITIONAL TRAINING COMPLETED	
EXPIRATION OF QUALIFICATION		CERTIFYING OFFICIAL, RANK, ORG		SIGNATURE	DATE
<input type="checkbox"/> RESTRICTIONS (Explain in Comments on Back)			<input type="checkbox"/> EXCEPTIONALLY QUALIFIED (Explain in Comments on Back)		
CERTIFICATION					
PRINT NAME/GRADE/ORGANIZATION			SIGNATURE/DATE		
FLIGHT EXAMINER					
REVIEWING OFFICER					
FINAL APPROVING OFFICER					

