U.S. Department
of Transportation
**Federal Aviation
Administration**

FAA-S-8081-30A

Sport Pilot and Sport Pilot Flight Instructor Rating

Practical Test Standards

for

Lighter-Than-Air Category

November 2023

**FLIGHT STANDARDS SERVICE
Washington, DC 20591**

Foreword

FAA-S-8081-30A, Sport Pilot and Sport Pilot Flight Instructor Rating Practical Test Standards for Lighter-Than-Air is published by the FAA to establish the standards for sport pilot practical tests and proficiency checks for the airship, balloon, and flight instructor. FAA inspectors and designated evaluators shall conduct practical tests in compliance with these standards. Instructors and applicants should find these standards helpful in practical test preparation.

FAA-S-8081-30A supersedes FAA-S-8081-30, Sport Pilot Practical Test Standards for Airship, Balloon, and Flight Instructor with changes 1, 2, 3, and 4 dated December 2004.

Major Enhancements to Version FAA-S-8081-30A

- Updated References throughout
- Changed “student” to “learner” throughout
- Changed “cockpit” to “flight deck” throughout
- Introduction:

    - Updated “General Information” section
    - Revised “Practical Test Standards Description” section
    - Updated “Abbreviations” section
    - Removed “Sport Pilot—Practical Test Prerequisites(Registered Ultra-Light Pilots)” section
    - Updated “Sport Pilot—Additional Privileges” section
    - Updated “Single-Seat Aircraft Proficiency Check” section
    - Updated “Letter of Discontinuance” section
    - Revised “Aeronautical Decision-Making and RiskManagement” section

- Revised Task A: Engine Fire During Flight in Area of Operation VIII:Emergency Operations in Section 1
- Revised “Flight Instructor Practical Test Section Description” section in “Flight Instructor Certificate with Sport Pilot Privileges”section in Section 3.
- Removed “Sport Pilot Prerequisites—Additional Privileges- Registered Ultra-Light Instructor” section from “Flight InstructorCertificate with Sport Pilot Privileges” section of Section 3

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AREAS OF OPERATION

Introduction

General Information

This PTS has been published by the FAA to establish the standards for the knowledge and skills necessaryfor the issuance of a Sport Pilot Certificate, Flight Instructor Certificate with a Sport Pilot Rating, Sport Pilot additional privileges to operate an additional category or class of light-sport aircraft and Flight Instructor additional privileges seeking to provide training in an additional category or class of light-sport aircraft at the sport pilot level.

FAA inspectors and designated pilot examiners shall conduct practical tests in compliance with these standards. Flight Instructors and Commercial Lighter-Than-Air pilots shall conduct proficiency checks in accordance with these standards. Flight instructors and applicants should find these standards helpful during training and when preparing for the practical test or proficiency check.

The FAA has developed this PTS as the standard that shall be used by FAA inspectors, SAEs, and DPEs when conducting sport pilot and flight instructor with a sport pilot rating practical tests and by authorized instructors when conducting proficiency checks.

Throughout this PTS the following titles will be referred to as an evaluator: ASI, pilot examiner (other than administrative pilot examiners), TCE, chief instructor, assistant chief instructor, check instructor of a pilot school holding examining authority, or authorized instructor.

A proficiency check is an evaluation of aeronautical knowledge andflight proficiency in accordance with 14 CFR part 61, sections 61.321 or 61.419. A proficiency check must be administered using the appropriate PTS for the category of aircraft when a pilot or a flight instructor adds new category/class privileges. Upon successful completion of the proficiencycheck the authorized instructor will endorse the applicant's logbookindicating the added category/class of equipment that the applicant is authorized to operate. When an evaluator conducts a proficiency check they are acting in the capacity of an authorized instructor.

DPEs and SAEs must have designation authority to conduct sport pilot initial evaluations SPE and flight instructors with a sport pilot rating initial evaluations SFIE per FAA Order 8000.95, Designee Management Policy.

Information considered directive in nature is described in this PTS in terms such as "shall" and "must" indicating the actions are mandatory. Guidance information is described in terms such as "should" and "may" indicating the actions are desirable or permissive, but not mandatory.

This PTS is available for download, in PDF format, from www.faa.gov.

Comments regarding this PTS may be emailed to acsptsinquiries@faa.gov.

PTS Concept

14 CFR part 61 specifies the subject areas in which knowledge and skill must be demonstrated by the applicant before the issuance of a certificate. The practical test standards contain the Areas of Operation and specific Tasks in which competency shall be demonstrated. The FAA will revise this PTS whenever it is determined that changes are needed in the interest of safety. Per 14 CFR part 61, section 61.43, adherence to the practical test standards is mandatory.

PTS Description

This PTS contains the following:

Section 1—Sport Pilot Airship
Section 2—Sport Pilot Balloon
Section 3—Sport Pilot Flight Instructor (The flight instructor section contains a separate introduction in section 3.)

The Sport Pilot Practical Test Standards include the AREAS OF OPERATION and TASKs for the issuance of an initial Sport Pilot Certificate and for the addition of sport pilot category/class privileges. It also contains information on how to obtain an initial Flight Instructor Certificate with a sport pilot rating and for the addition of flight instructor category/class privileges.

AREAS OF OPERATION are phases of the practical test or proficiency check arranged in a logical sequence within each standard. They begin with Preflight Preparation and end with Postflight Procedures. The evaluator may conduct the practical test or proficiency check in any sequence that will result in a complete and efficient test. An authorized instructor may conduct a proficiency check in any sequence that will result in a complete and efficient test; **however, the ground portion of the practical test or proficiency check shall be accomplished before the flight portion.**

TASKs are specific knowledge areas, flight procedures, or maneuvers appropriate to an AREA OF OPERATION.

NOTE is used to emphasize special considerations required in theAREA OF OPERATION or TASK.

REFERENCE identifies the publication(s) that describe(s) the TASK. Descriptions of TASKs are not included in these standards because thisinformation can be found in the current issue of the listed reference. Publications other than those listed may be used for reference if their content conveys substantially the same meaning as the referencedpublications.

This PTS is based on the following references.

14 CFR part 1	Definitions and Abbreviations
14 CFR part 43	Maintenance, Preventive Maintenance, Rebuilding, and Alteration
14 CFR part 61	Certification: Pilots, Flight Instructors, and Ground Instructors
14 CFR part 67	Medical Standards and Certification
14 CFR part 68	Requirements for Operating Certain Small Aircraft without a Medical Certificate
14 CFR part 71	Designation of Class A, B, C, D, and E Airspace; Air Traffic Service Routes; and Reporting Points
14 CFR part 91	General Operating and Flight Rules
49 CFR part 830	Notification and Reporting of Aircraft Accidents or Incidents and Overdue Aircraft, and Preservation of Aircraft Wreckage, Mail, Cargo, and Records
AC 60-22	Aeronautical Decision Making

AC 60-28	FAA English Language Skill Standard for an FAA certificate Issued Under 14 CFR Parts 61,63, 65, and 107
AC 61-65	Certification: Pilot and Flight and Ground Instructors
AC 61-98	Currency and Additional Qualification Requirements for the Flight Review and Instrument Proficiency Check
AC 61-134	General Aviation Controlled Flight Into Terrain Awareness
AC 90-23	Aircraft Wake Turbulence
AC 90-48	Pilots' Role in Collision Avoidance
AC 90-66	Non-Towered Airport Flight Operations
AC 91-71	Operation of Hot Air Balloons with Airborne Heaters
AC 120-51	Crew Resource Management Training
FAA-H-8083-1	Aircraft Weight and Balance Handbook
FAA-H-8083-2	Risk Management Handbook
FAA-H-8083-3	Airplane Flying Handbook
FAA-H-8083-9	Aviation Instructor's Handbook
FAA-H-8083-11	Balloon Flying Handbook
FAA-H-8083-25	Pilot's Handbook of Aeronautical Knowledge
FAA-H-8083-28	Aviation Weather Handbook
AIM	Aeronautical Information Manual
NOTAM	Notice to Air Missions
Other	Airship Flight Manual Airship Pilot Manual Airship Aerodynamics Technical Manual Balloon Digest (Balloon Federation of America) How To Fly A Balloon (Balloon Publishing Co.) Navigation Equipment Operations Manuals Pilot Operating Handbook/FAA-Approved Flight Manual Aeronautical Navigation Charts Chart Supplements

NOTE: Users should reference the current edition of the reference documents listed above. The current edition of all FAA publications can be found at: www.faa.gov.

The Objective lists the important elements that must be satisfactorily performed to demonstrate competency in a TASK. The Objective includes:

1. specifically what the applicant must be able to do;
2. conditions under which the TASK is to be performed;
3. acceptable performance standards; and
4. safety considerations, when applicable.

Abbreviations/Acronyms

14 CFR	Title 14 of the Code of Federal Regulations
AC	Advisory Circular
ADM	Aeronautical Decision-Making
AGL	Above Ground Level
AIM	Aeronautical Information Manual
ASI	Aviation Safety Inspector
ATC	AirTraffic Control
CFIT	Controlled Flight into Terrain
CRM	Crew Resource Management

DPE	Designated Pilot Examiner
ETA	Estimated Time of Arrival
FAA	Federal Aviation Administration
GFA	Graphical Forecasts for Aviation
IACRA	Integrated Airman Certification and Rating Application
ID	Identification
IMC	Instrument Meteorological Conditions
NAS	National Airspace System
NOTAM	Notice to Air Missions
NTSB	National Transportation Safety Board
PDF	Portable Document Format
POH	Pilot's Operating Handbook
PTS	Practical Test Standards
SAE	Specialty Aircraft Examiner
SFIE	Sport Flight Instructor Examiner
SRM	Single-Pilot Resource Management
SOP	Standard Operating Procedures
SS	Single-seat
SUA	Special Use Airspace
TAF	Terminal Area Forecast
TCE	Training Center Evaluator
TFR	Temporary Flight Restrictions
U.S.	United States
VFR	Visual Flight Rules

Use of the PTS

The FAA requires that all sport pilot and sport pilot flight instructor practical tests and proficiency checks are conducted in accordance with the appropriate sport pilot practical test standards. Applicants shall be evaluated in **ALL** TASKs included in each AREA OF OPERATION of the appropriate practical test standard, unless otherwise noted.

In preparation for each practical test or proficiency check, the evaluator or authorized instructor shall develop a written "plan of action." The "plan of action" shall include all TASKs in each AREA OF OPERATION unless noted otherwise. If the elements in one TASK have already been evaluated in another TASK, they need not be repeated.

For example, the "plan of action" need not include evaluating the applicant on complying with markings and signals at the end of the flight, if that element was sufficiently observed at the beginning of the flight. **Any TASK selected for evaluation during a practical test or proficiency check shall be evaluated in its entirety.** Exception: evaluators evaluating single-seat applicants from the ground shall evaluate only those TASK **elements** that can be accurately assessed from the ground.

The evaluator or authorized instructor is not required to follow the precise order in which the AREAS OF OPERATION and TASKs appear in this PTS. The evaluator or authorized instructor may change the sequence or combine TASKs with similar Objectives to have an orderly and efficient flow of the practical test or proficiency check events.

The evaluator's or authorized instructor's "plan of action" shall include the order and combination of TASKs to be demonstrated by the applicant in a manner that will result in an efficient and valid test.

The evaluator or authorized instructor is expected to use good judgment in the performance of simulated emergency procedures. The use of the safest means for simulation is expected. Consideration must be given to local conditions, both meteorological and topographical, at the time of the test, as well as the applicant's workload, and the condition of the aircraft used during the practical test or proficiency check. **If the procedure being evaluated would jeopardize safety, it is expected that the applicant will simulate that portion of the maneuver.**

Special Emphasis Areas

Evaluators and authorized instructors shall place special emphasis upon areas of aircraft operations considered critical to flight safety. Among these are:

1. positive aircraft control;
2. procedures for positive exchange of flight controls;
3. collision avoidance;
4. wake turbulence and low level wind shear avoidance;
5. runway incursion avoidance;
6. CFIT;
7. ADM and risk management;
8. SRM and CRM;
9. wire strike avoidance;
10. checklist usage;
11. spatial disorientation;
12. TFR;
13. SUA;
14. aviation security; and
15. other areas deemed appropriate to any phase of the practical test or proficiency check.

Although these areas may not be specifically addressed under each TASK, they are essential to flight safety and will be evaluated duringthe practical test or proficiency check. In all instances, the applicant's actions will be relate to the complete situation.

Sport Pilot—Practical Test Prerequisites (Initial)

14 CFR part 61, sections 61.39 and subpart J provides practical test and certification prerequisites.

Sport Pilot—Additional Privileges

If you hold a Sport Pilot Certificate or higher and seek to operate an additional category or class of light-sport aircraft you must comply with 14 CFR part 61, section 61.321.If you hold a Flight Instructor Certificate with a Sport Pilot Rating or higher and seek to operating an additional category or class of light-sport aircraft you must comply with 14 CFR part 61, section 61.419.

Aircraft and Equipment Requirements

14 CFR part 61, section 61.45 provides requirements for aircraft and equipment for the practical test.

The aircraft utilized for sport pilot and sport pilot flight instructor practical tests and proficiency checks must be a light-sport aircraft as defined in 14 CFR part 1.

Single-Seat Aircraft Practical Test

Applicants for a Sport Pilot Certificate may elect to take their test in a single-seat aircraft. The FAA established in 14 CFR part 61, section 61.45(f) specific requirements to allow a practical test for a Sport Pilot Certificate ONLY. This provision does not allow a practical test for a Flight Instructor Certificate or Recreation Pilot Certificate or higher to be conducted in a light-sport aircraft that has a single-pilot seat.

With certain limitations, the practical test for a Sport Pilot Certificate may be conducted from the ground by an evaluator. The evaluator must agree to conduct the practical test in a single-seat aircraft and must ensure that the practical test is conducted in accordance with the sport pilot practical test standards for single-seat aircraft**. Knowledge of all TASKs applicable to their category/class of aircraft will be evaluated orally.** Single-seat sport pilots shall demonstrate competency in those specific TASKs identified by a NOTE in the AREA OF OPERATION for a single-seat practical test and any other TASKs selected by the evaluator. Evaluators evaluating single-seat applicants from the ground shall evaluate only those TASK **elements** that can be accurately assessed from the ground.

The evaluator **must maintain radio contact** with the applicant and be in a position to observe the operation of the aircraft while evaluating the proficiency of the applicant from the ground.

Upon successful completion of the practical test, the pilot certificate will be issued with a limitation “No passenger carriage and flight in a single-seat light-sport aircraft only.” Only an examiner or ASI is authorized to remove this limitation when the sport pilot takes a complete practical test in a two-place light-sport aircraft. This practical test may be conducted in the same or additional category of aircraft.

Single-Seat Aircraft Proficiency Check

Sport pilot proficiency checks may be performed for an additional category or privilege in accordance with 14 CFR part 61, section 61.321, to be added to a Sport Pilot Certificate or higher using a single-seat light-sport aircraft, providing the authorized instructor is an examiner. When an examiner conducts a proficiency check, they are acting in the capacity of an authorized instructor.

The authorized instructor must agree to conduct the practical test in a single-seat light-sport aircraft and must ensure that the proficiency check is conducted in accordance with the sport pilot practical test standards for single-seat aircraft. Knowledge of all TASKs applicable to the category or class of aircraft will be evaluated orally. Those pilots seeking sport pilot privileges in a single-seat light-sport aircraft shall demonstrate competency in those specific TASKs identified by a NOTE in the AREA OF OPERATION for a single-seat proficiency check and any other TASKs selected by the authorized instructor. Authorized instructors evaluating single-seat applicants from the ground shall evaluate only those TASK **elements** that can be accurately assessed from the ground.

The authorized instructor must have radio contact and be in a position to observe the operation of the light-sport aircraft and evaluate the proficiency of the applicant from the ground.

On successful completion of a proficiency check, the authorized instructor will issue an endorsement with the following limitation “No passenger carriage and flight in a single-pilot seat aircraft only (add category/class/make and model)” limiting their operations to a single-seat aircraft in this category, class, make, and model. The authorized instructor must sign this endorsement with their flight instructor and examiner number.

This limitation can be removed by successfully completing a complete proficiency check; in a two-seat light-sport aircraft in that specific category and class, in accordance with 14 CFR part 61, section 61.321. This proficiency check must be conducted in the same category and class of light-sport aircraft. Upon

successful completion of the proficiencycheck, the applicant will be given an endorsement for the aircraft privilege sought.

Evaluator Responsibility

The evaluator conducting the practical test or authorized instructor conducting the proficiency check is responsible for determining that the applicant meets the acceptable standards of knowledge and skill of each TASK within each appropriate AREA OF OPERATION. Since there is no formal division between the “oral” and “skill” portions of the practical test or proficiency check, this oral portion becomes an ongoing process throughout the test. Oral questioning, to determine the applicant’s knowledge of TASKs and related safety factors, should be used judiciously at all times, especially during the flight portion of the practical test or proficiency check. Evaluators and authorized instructors shall test to the greatest extent practicable the applicant’s correlative abilities rather than mere rote enumeration of facts throughout the practical test or proficiency check.

If the evaluator or authorized instructor determines that a TASK is incomplete, or the outcome uncertain, the evaluator may require the applicant to repeat that TASK, or portions of that TASK. This provision has been made in the interest of fairness and does not mean that instruction, practice, or the repeating of an unsatisfactory TASK is permitted during the certification process. When practical, the remaining TASKs of the practical test or proficiency check phase should be completed before repeating the questionable TASK.

The evaluator or authorized instructor shall use scenarios when applicable to determine that the applicant can use good risk management procedures in making aeronautical decisions. Examples of TASKs where scenarios would be advantageous are weather analysis, performance planning, and runway/landing area selection.

Throughout the flight portion of the practical test or proficiency check, the evaluator or authorized instructor shall evaluate the applicant’s knowledge and practical incorporation of special emphasis areas.

Flight Instructor Responsibility

An appropriately rated authorized flight instructor is responsible for training the sport pilot applicant to acceptable standards in all subject matter areas, procedures, and maneuvers included in the Tasks within the appropriate PTS.

Because of the impact of their teaching activities in developing safe, proficient pilots, flight instructors should exhibit a high level of knowledge, skill, and the ability to impart that knowledge and skill to students. Additionally, the flight instructor must certify that the applicant is able to perform safely as a sport pilot and is competent to pass the required practical test.

Throughout the applicant's training, the flight instructor is responsible for emphasizing the performance of effective visual scanning, collision avoidance, and runway incursion avoidance procedures. These areas are covered, in part, in AC 90-48, Pilots' Role in Collision Avoidance; FAA-H-8083-25, Pilot's Handbook of Aeronautical Knowledge; and the Aeronautical Information Manual.

Practical Test—Sport Pilot-Satisfactory Performance

14 CFR part 61, section 61.43(a), describes the satisfactory completion of the practical test for a certificate or rating.

Practical Test—Sport Pilot-Unsatisfactory Performance

If, in the judgment of the evaluator, the applicant does not meet the standards of performance of any Task performed, the associated Area of Operation is considered unsatisfactory and, therefore, the practical test is failed. 14 CFR part 61, section 61.43(c)-(f) provides additional unsatisfactory performance requirements and parameters.

Typical areas of unsatisfactory performance and grounds for disqualification are:

1. Any action or lack of action by the applicant that requires corrective intervention by the evaluator to maintain safe flight.
2. Failure to use proper and effective visual scanning techniques to clear the area before and while performing maneuvers.
3. Consistently exceeding tolerances stated in the Objectives.
4. Failure to take prompt corrective action when tolerances are exceeded.

When a disapproval notice is issued, the evaluator will record the applicant's unsatisfactory performance in terms of Area of Operations and specific Task(s) not meeting the standard appropriate to the practical test conducted. The Area(s) of Operation/Task(s) not tested and the number of practical test failures must be recorded. If the applicant fails the practical test because of a special emphasis area, the Notice of Disapproval must indicate the associated TASK.

Proficiency Check—Sport Pilot-Satisfactory Performance When Adding an Additional Category/Class

Satisfactory performance of TASKs to add category/class privileges is based on the applicant's ability to safely:

1. perform the TASKs specified in the AREAS OF OPERATION for the certificate or privileges sought within the approved standards;
2. demonstrate mastery of the aircraft with the successfuloutcome of each TASK performed never seriously in doubt;
3. demonstrate satisfactory proficiency and competency withinthe approved standards;
4. demonstrate sound judgment in aeronautical decision-making/risk management; and
5. demonstrate single-pilot competence.

When an applicant is adding a category/class privilege to their Sport Pilot Certificate, the authorized instructor, upon satisfactory completion of the proficiency check, shall endorse the applicant's logbook indicating that the applicant is qualified to operate the additional sport pilot category/class of aircraft. The authorized instructorshall forward FAA Form 8710-11, Airman Certificate and/or Rating Application to Civil Aviation Registry within 10 days or submit the application through IACRA.

Proficiency Check—Sport Pilot-Unsatisfactory Performance When Adding an Additional Category/Class

When the applicant's performance does not meet the standards in the PTS, the authorized instructor conducting the proficiency check shall annotate the unsatisfactory performance on the FAA Form 8710-11, Airman Certificate and/or Rating Application and forward it to Civil Aviation Registry within 10 days or submit the application through IACRA. A Notice of Disapproval will **NOT** be issued in this instance; rather, the applicant should be provided with a list of the AREAS OF OPERATION and the specific TASKsnot meeting the standard, so that the applicant may receive additional training.

When the applicant receives the additional training in the AREAS OF OPERATION and the specific TASK(s) found deficient during the proficiency check, the recommending instructor shall endorse the applicant's logbook indicating that the applicant has received additional instruction and has been found competent to pass the proficiency check. The applicant shall complete a new FAA Form 8710-11, Airman Certificate and/or Rating Application, and the recommending instructor shall endorse the application. The authorized instructor, other than the one who provided the additional training, shall evaluate the applicant on all TASKS applicable to the additional light-sport aircraft privilege sought. When the applicant successfully accomplishes a complete proficiency check, the authorized instructor, shall forward the FAA Form 8710-11, Airman Certificate and/or Rating Application to Civil Aviation Registry, within 10 days, or submit the application through IACRA, and endorse the applicant's logbook indicating the airman's additional category/class privileges.

ADM, Risk Management, CRM, and SRM

Throughout the practical test, the evaluator must assess the applicant's ability to use sound aeronautical decision-making procedures in order to identify hazards and mitigate risk. The evaluator must accomplish this requirement by developing scenarios that incorporate and combine Tasks appropriate to assessing the applicant's risk management in making safe aeronautical decisions. For example, the evaluator may develop a scenario that incorporates weather decisions and performance planning.

In assessing the applicant's performance, the evaluator should take note of the applicant's use of CRM and, if appropriate, SRM. CRM/SRM is the set of competencies that includes situational awareness, communication skills, teamwork, task allocation, and decision-making within a comprehensive framework of SOP. SRM specifically refers to the management of all resources onboard the aircraft, as well as outside resources available to the single pilot.

If an applicant fails to use ADM, including CRM/SRM, as applicable in any Task, the evaluator will note that Task as failed.

Applicant's Use of Checklists

Throughout the practical test or proficiency check, the applicant is evaluated on the use of an appropriate checklist. Proper use is dependent on the specific Task being evaluated. The situation may be such that the use of the checklist while accomplishing the elements of the Objective would be either unsafe or impractical, especially in a single-pilot operation. In this case, a review of the checklist after the elements have been accomplished would be appropriate. Division of attention and proper visual scanning would be considered when using a checklist.

Use of Distractions During Practical Tests or Proficiency Checks

Numerous studies indicate that many accidents have occurred when the pilot has been distracted during critical phases of flight. To evaluate the pilot's ability to utilize proper control technique while dividing attention both inside and outside the flight deck/gondola/carriage/basket, the evaluator should simulate a realistic distraction during the flight portion of the practical test or proficiency check to evaluate the applicant's ability to divide attention while maintaining safe flight.

Positive Exchange of Flight Controls

During flight, there must always be a clear understanding between pilots of who has control of the aircraft. Prior to flight, a briefing should be conducted that includes the procedure for the exchange of flight controls. A positive three-step process, subsequently described, in the exchange of flight controls between pilots is a proven procedure and one that is strongly recommended.

When one pilot wishes to give the other pilot control of the aircraft, they will say, “You have the flight controls.” The other pilot acknowledges immediately by saying, “I have the flight controls.” The first pilot again says, “You have the flight controls.” When control is returned to the first pilot, follow the same procedure. A visual check is recommended to verify that the exchange has occurred. There should never be any doubt as to who is flying the aircraft.

Letter of Discontinuance

When a practical test is discontinued for reasons other than unsatisfactory performance (e.g., equipment failure, weather, or illness) FAA Form 8710-11, Airman Certificate and/or Rating Application, and, if applicable, the Airman Knowledge Test Report, is to be returned to the applicant. The evaluator at that time prepares, signs, and issues a Letter of Discontinuance to the applicant. The Letter of Discontinuance should identify the Areas of Operation and their associated Tasks of the practical test that were successfully completed. The applicant should be advised that the Letter of Discontinuance must be presented to the evaluator when the practical test is resumed, and made part of the certification file.

Section 1

Sport Pilot

Airship

Applicant's Practical Test Checklist

Appointment with Evaluator

Evaluator's Name_____

Location _____

Date/Time _____

ACCEPTABLE AIRCRAFT

- ☐ Aircraft Documents: Airworthiness Certificate, Registration Certificate,and Operating Limitations
- ☐ Aircraft Maintenance Records: Logbook Record of Inspections/Airworthiness Directives/Safety Directives
- ☐ Pilot's Operating Handbook or FAA-Approved Flight Manual orManufacturer's Operating Instructions

PERSONAL EQUIPMENT

- ☐ Current Aeronautical Chart
- ☐ Flight Logs
- ☐ Current Chart Supplements and Appropriate Publications

PERSONAL RECORDS

- ☐ Identification—Photo/Signature ID
- ☐ Pilot Certificate
- ☐ Medical Certificate, Driver's License, or show compliance with 14 CFR part 68
- ☐ Completed FAA Form 8710-11, Application for an Airman Certificate and/or Rating—Light Sport
- ☐ AKTR
- ☐ Logbook with Instructor's Endorsement
- ☐ FAA Form 8060-5, Notice of Disapproval of Application (if applicable)
- ☐ Evaluator's Fee (if applicable)

Evaluator's Practical Test Checklist

Applicant's Name _____

Location _____

Date/Time _____

I. PREFLIGHT PREPARATION

☐ A. Certificates and Documents
☐ B. Airworthiness Requirements
☐ C. Weather Information
☐ D. Cross-Country Flight Planning
☐ E. National Airspace System
☐ F. Operation of Systems
☐ G. Aeromedical Factors
☐ H. Performance and Limitations
☐ I. Principles of Flight

II. PREFLIGHT PROCEDURES

☐ A. Preflight Inspection
☐ B. Flight Deck/Gondola/Car Management
☐ C. Engine Starting
☐ D. Unmasting and Positioning for Takeoff
☐ E. Ground Handling
☐ F. Before Takeoff Check

III. AIRPORT OPERATIONS

☐ A. Radio Communications
☐ B. Traffic Patterns
☐ C. Airport and Runway Markings and Lighting

IV. TAKEOFFS, LANDINGS, AND GO-AROUNDS

☐ A. Ground Weigh-Off
☐ B. Up-Ship Takeoff
☐ C. Wheel Takeoff
☐ D. Approach and Landing
☐ E. Go-Around

V. PERFORMANCE MANEUVERS

☐ A. Straight-and-Level Flight
☐ B. Ascents and Descents
☐ C. Level Turns
☐ D. In-Flight Weigh-Off
☐ E. Manual Pressure Control
☐ F. Static and Dynamic Trim

VI. GROUND REFERENCE MANEUVERS

- ☐ A. Rectangular Course
- ☐ B. Turns Around a Point

VII. NAVIGATION

- ☐ A. Pilotage and Dead Reckoning
- ☐ B. Diversion
- ☐ C. Lost Procedures

VIII. EMERGENCY OPERATIONS

- ☐ A. Engine Fire During Flight
- ☐ B. Envelope Emergencies
- ☐ C. Free Ballooning
- ☐ D. Ditching and Emergency Landing
- ☐ E. Systems and Equipment Malfunctions
- ☐ F. Emergency Equipment and Survival Gear

IX. POSTFLIGHT PROCEDURES

- ☐ A. Masting
- ☐ B. Post-masting

I. AREA OF OPERATION: PREFLIGHT PREPARATION

A. TASK: CERTIFICATES AND DOCUMENTS

REFERENCES: 14 CFR parts 43, 61, 91; FAA-H-8083-25; Airship Flight Manual.

Objective. To determine that the applicant exhibits knowledge of the elements related to certificates and documents by:

1. Explaining—

    a. certificate privileges, limitations, and currency experience.
    b. medical eligibility.
    c. pilot logbook or flight records.

2. Locating and explaining—

    a. airworthiness and registration certificates.
    b. operating limitations, placards, instrument markings, Airship Flight Manual/POH, and flight training supplement.
    c. weight and balance data and/or equipment list, as applicable.

B. TASK: AIRWORTHINESS REQUIREMENTS

REFERENCES: 14 CFR part 91; FAA-H-8083-25; Aircraft OperatingLimitations.

Objective. To determine that the applicant exhibits knowledge of the elements related to airworthiness requirements by:

1. Explaining—

    a. required instruments and equipment for sport pilot privileges.
    b. procedures and limitations for determining if the aircraft, with inoperative instruments and/or equipment, is airworthyor in a condition for safe flight.

2. Explaining—

    a. airworthiness directives/safety directives (as applicable tothe aircraft brought for flight test.)
    b. maintenance/inspection requirements and appropriate record keeping.

C. TASK: WEATHER INFORMATION

REFERENCES: 14 CFR part 91; AC 61-134;FAA-H-8083-25, FAA-H-8083-28; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to real time weather information appropriate to the specific category/class aircraft by consulting the weather reports, charts, and forecasts from aeronautical weather reporting sources.
2. Makes a competent “go/no-go” decision based on available weather information.
3. Describes importance of avoiding adverse weather and inadvertent entry into IMC.
4. Explains courses of action to safely exit from an inadvertent IMC encounter.

D. TASK: CROSS-COUNTRY FLIGHT PLANNING

REFERENCES: 14 CFR part 91; FAA-H-8083-25; Navigation Charts; Chart Supplements; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to cross-country flight planning appropriate to the category/class aircraft.
2. Uses appropriate and current aeronautical charts.
3. Properly identifies airspace, obstructions, and terrain features.
4. Selects easily identifiable en route checkpoints, as appropriate.
5. Selects most favorable altitudes considering weather conditions and equipment capabilities.
6. Computes headings, flight time, and fuel requirements.
7. Selects appropriate navigation system/facilities and communication frequencies, if so equipped.
8. Applies pertinent information from NOTAMs, Chart Supplements, and other flight publications.
9. Completes navigation log and simulates filing a VFR flight plan.

E. TASK: NATIONAL AIRSPACE SYSTEM

REFERENCES: 14 CFR parts 71, 91; FAA-H-8083-25; Navigation Charts; AIM.

Objective. To determine that the applicant exhibits knowledge of the elements related to the NAS by explaining:

1. Basic VFR weather minimums, operating rules, pilot certification, and aircraft equipment requirements for the following classesof airspace—

    a. Class B.
    b. Class C.
    c. Class D.
    d. Class E.
    e. Class G.

2. Special use and other airspace areas.
3. TFRs.

F. TASK: OPERATION OF SYSTEMS

REFERENCES: FAA-H-8083-25; Airship Flight Manual.

Objective. To determine that the applicant exhibits knowledge of the elements related to the operation of systems on the light-sport aircraft provided for the flight test by explaining at least three (3) of the following systems:

1. Surface control systems.
2. Flight instruments and associated controls.
3. Landing gear.
4. Engines.
5. Propellers.
6. Fuel and oil system.
7. Electrical system.
8. Envelope/ballonet pressure systems.
9. Environmental system.
10. Avionics and auxiliary equipment.
11. Any system unique to the airship flown.
12. Ground support equipment.

G. TASK: AEROMEDICAL FACTORS

REFERENCES: FAA-H-8083-25; AIM.

Objective. To determine that the applicant exhibits knowledge of the elements related to aeromedical factors by explaining:

1. The effects of alcohol, drugs and over-the-counter medications.
2. The effects of excess nitrogen during scuba dives upon a pilotor passenger in flight.
3. The symptoms, causes, effects, and corrective actions of at least three (3) of the following—

    a. hypoxia.
    b. hyperventilation.
    c. middle ear and sinus problems.
    d. spatial disorientation.
    e. motion sickness.
    f. carbon monoxide poisoning.
    g. stress and fatigue.
    h. dehydration.
    i. hypothermia.

H. TASK: PERFORMANCE AND LIMITATIONS

REFERENCES: FAA-H-8083-1, FAA-H-8083-25; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to performance and limitations by explaining the use of charts, tables, and appropriate data, if available from the manufacturer, to determine performance in various phases of flight, including operational characteristics and loading, and the adverse effects of exceeding limitations.
2. Computes operating weight, maximum load, and trim condition.
3. Determines airship performance with regard to—

    a. weight limitations.
    b. static and dynamic lift capability.
    c. effect of superheat on ballonets(s) and percent of fullness.
    d. effect of gas purity and superheat on lift.
    e. temperature and humidity changes on performance and lift.
    f. temperature inversion on descents.
    g. leaks in ballonet(s) and envelope.
    h. average ballonet volume with respect to total envelopevolume and service ceiling.
    i. loss of gross lift when above pressure height.
    j. relationship of ballonet fullness to pressure height.

4. Determines airship performance, considering the effects of the following conditions—

    a. weights and lift (static and dynamic).
    b. relationship of ballonet fullness to pressure height.
    c. superheat on percent of fullness.
    d. average ballonet volume with respect to total envelope volume.
    e. loss of gross lift when above pressure height.
    f. leaks in ballonets and envelope.
    g. gas purity on lift.
    h. superheat on lift.
    i. maximum rate climb and descent limitations.

I. TASK: PRINCIPLES OF FLIGHT

REFERENCES: FAA-H-8083-25; Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant exhibits knowledge ofthe elements of the principles of flight by describing:

1. Aerostatics—

    a. physical properties of gases.
    b. laws of Archimedes, Bernoulli, Boyle, and Charles.
    c. application of these laws (pressure height, superheat,buoyancy).
    d. lift (gross, net, useful, disposable).

2. Aerodynamics—

    a. fineness ratio.
    b. aerodynamic pressure.
    c. dynamic lift/drag.

II. AREA OF OPERATION: PREFLIGHT PROCEDURES

NOTE: For single-seat applicants, the evaluator shall select at least TASKs A, C, D, and E as applicable to the aircraft.

A. TASK: PREFLIGHT INSPECTION

REFERENCES: FAA-H-8083-3; Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to preflight inspection. This shall include which items must be inspected, the reasons for checking each item, and how to detect possible defects.
2. Inspects the airship with reference to the checklist.
3. Verifies the airship is in condition for safe flight.

B. TASK: FLIGHT DECK/GONDOLA/CAR MANAGEMENT\

REFERENCES: FAA-H-8083-3; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to flightdeck/gondola/car management procedures.
2. Ensures all loose items in the flight deck/gondola/car and passenger area are secured.
3. Briefs passenger on the use of safety belts and emergency procedures.
4. Organizes essential material and equipment in a logical, efficient flow pattern.
5. Maintains orderly records reflecting progress of the flight, asappropriate.

C. TASK: ENGINE STARTING

REFERENCES: FAA-H-8083-3, FAA-H-8083-25; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to engine starting. This shall include the use of an external power source and starting under various atmospheric conditions, as appropriate.
2. Observes safety precautions related to starting, considering open hangars, other aircraft, and the safety of nearby persons and property on the ramp.
3. Accomplishes the correct starting procedure including proper adjustment of engine controls.
4. Prevents movement of airship during and after start.
5. Completes the appropriate checklist.

D. TASK: UNMASTING AND POSITIONING FOR TAKEOFF

REFERENCE: Airship Flight Manual.

Objective. To determine that the applicant:

1. Briefs ground crew and coordinates hand signals and voicecommands.
2. Prevents airship from riding up on the mast.
3. Ensures proper envelope pressure and trim before coming offthe mast.
4. Uses ground crew and airship controls properly to move away from the mast and into position for takeoff.
5. Divides attention inside and outside the flight deck/gondola/carso as to avoid possible immediate takeoff after coming off the mast.
6. Completes the appropriate checklist.

E. TASK: GROUND HANDLING

REFERENCES: Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to ground handling,appropriate to the airship provided for the practical test.
2. Determines the required number of crew members, consideringthe weather conditions, the status of the airship, and the method of handling.
3. Briefs the ground crew on all pertinent phases of ground handling procedures.
4. Maintains coordination with the crew chief and the proper use of hand signals and voice commands with the crew.
5. Recognizes undesirable airship movement and takes appropriateaction.
6. Maintains proper envelope pressure and trim and alertness for wind shifts.
7. Maintains proper position while controlled by the ground crew.

F. TASK: BEFORE TAKEOFF CHECK

REFERENCES: FAA-H-8083-3; Airship Pilot Manual; Airship FlightManual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to the beforetakeoff check.
2. Positions the airship properly to avoid hazards.
3. Divides attention inside and outside the flight deck/gondola/car.
4. Ensures that engine temperatures and pressures are suitable for run-up and takeoff.
5. Accomplishes the before takeoff check and confirms that the airship is in safe operating condition.
6. Reviews takeoff performance, wind direction and speed, expected takeoff distance, emergency procedures, and the departure procedure.
7. Ensures that the takeoff path is clear of obstacles.
8. Assures no conflict with traffic prior to takeoff.
9. Completes the appropriate checklist.

III. AREA OF OPERATION: AIRPORT OPERATIONS

A. TASK: RADIO COMMUNICATIONS

NOTE: If the aircraft is not radio equipped, this TASK shall be tested orally for procedures ONLY.

REFERENCES: 14 CFR Part 91; FAA-H-8083-25; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to radio communications at airports without operating control towers.
2. Selects appropriate frequencies.
3. Transmits using recommended phraseology.
4. Acknowledges radio communications.

B. TASK: TRAFFIC PATTERNS

REFERENCES: FAA-H-8083-3, FAA-H-8083-25; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to traffic patterns. This shall include operations at controlled and uncontrolledairports, runway incursion and collision avoidance, wake turbulence avoidance, and wind shear.
2. Complies with traffic pattern procedures.
3. Maintains proper spacing from other traffic.
4. Corrects for wind drift to maintain the proper ground track.
5. Maintains orientation with the runway or landing area to beused.
6. Establishes a final approach at an appropriate distance fromthe runway or landing area.
7. Maintains the appropriate traffic pattern altitude, ±200 feet.
8. Maintains airspeed for the current static condition of theairship.

C. TASK: AIRPORT AND RUNWAY MARKINGS AND LIGHTING

REFERENCES: FAA-H-8083-25; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to airport and runway markings, signs and lighting with emphasis on runway incursion avoidance.
2. Properly identifies and interprets airport base markings, signs and lighting with emphasis on runway incursion avoidance.

IV. AREA OF OPERATION: TAKEOFFS, LANDINGS, AND GO-AROUNDS

NOTE: For single-seat applicants, the evaluator shall select all TASKs.

A. TASK: GROUND WEIGH-OFF

REFERENCES: Airship Pilot Manual; Airship AerodynamicsTechnical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to ground weigh-off.
2. Determines the static and trim conditions.
3. Maintains zero inclination and heading into the wind.
4. Prevents fore-and-aft surge.
5. Checks weigh-off and trim with neutral elevators when HANDS OFF command is given.
6. Ballasts the airship according to the conditions and type of flight contemplated without exceeding the weight limits.
7. Completes the appropriate checklist.

B. TASK: UP-SHIP TAKEOFF

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to an upwind takeoff.
2. Determines heaviness limitations and weather conditions under which an up-ship takeoff may be made.
3. Ensures that sufficient ground crew is available so as to obtain adequate upward velocity.
4. Idles engines and uses the rudder as necessary during weigh-off.
5. Remains within the takeoff heaviness limits.
6. Uses proper and timely hand signals and voice commands with ground crew.
7. Applies up elevator pressure as ground crew lifts airship and transitions to a nose-up attitude keeping tail clear of the ground.
8. Applies power as the airship nears the top of its upward thrust.
9. Prevents the tail from striking the ground.
10. Increases airspeed sufficiently to carry the load dynamically.
11. Completes the appropriate checklist.

C. TASK: WHEEL TAKEOFF

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to a wheel takeoff. This shall include a wheel takeoff under various degrees of heaviness, including maximum heavy conditions.
2. Determines the approximate takeoff roll and ensures that the area is clear and sufficient, considering wind conditions and field surface.
3. Positions the airship to utilize the maximum available takeoff area and maintains trim.
4. Uses the proper hand signals and voice commands with the ground crew.
5. Applies power slowly, in a timely manner.
6. Attains sufficient airspeed to carry the load dynamically while on the wheel.
7. Uses elevators to assist the airship in lifting dynamically.
8. Maintains directional control and the proper inclination to keep the tail off the ground.
9. Completes the appropriate checklist.

D. TASK: APPROACH AND LANDING

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to an approach and landing, including light and heavy airships.
2. Accomplishes static weigh-off prior to commencing the approach.
3. Adjusts trim, as necessary, for landing, considering weight and condition of air.
4. Coordinates flight and power controls, as necessary.
5. Makes smooth and gradual approach maintaining direction and angle of descent.
6. Recognizes and adheres to wave-off signals.
7. Lands at a speed appropriate for approaching the ground crew.
8. Reverses thrust, if applicable.
9. Completes the appropriate checklist.

E. TASK: GO-AROUND

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Makes a timely decision to discontinue the approach to landing.
2. Uses correct procedures for a light or heavy airship, as appropriate.
3. Coordinates use of power and flight controls to effect a smooth transition to a climb attitude.
4. Completes the appropriate checklist.

V. AREA OF OPERATION: PERFORMANCE MANEUVERS

NOTE: For single-seat applicants, the evaluator shall select at least TASKs A, B, and C.

A. TASK: STRAIGHT-AND-LEVEL FLIGHT

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to straight-and-level flight.
2. Uses the flight controls in a smooth, coordinated manner with minimum pitching and yawing.
3. Adjusts and maintains dynamic trim.
4. Maintains the specified altitude, ±200 feet and the specified heading, ±20°.

B. TASK: ASCENTS AND DESCENTS

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to ascents and descents, including limitations.
2. Ascends and descends while keeping the gas pressure within operating limits.
3. Demonstrates proper pressure control and makes smooth altitude changes.
4. Controls rates of ascent and descent, ±300 feet per minute.

C. TASK: LEVEL TURNS

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to level turns.
2. Enters, maintains, and rolls out of level turns with smooth,coordinated control application.
3. Uses elevators and rudders properly to control effects of rolling tendency, loss of dynamic lift.
4. Maintains the specified altitude, ±200 feet and rolls out on the assigned heading, ±20°.

D. TASK: IN-FLIGHT WEIGH-OFF

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to in-flight weigh-off.
2. Steers the airship into the wind in level flight at a minimum altitude of at least 500 feet AGL.
3. Reduces the power to the specified airspeed and stabilizes the airship.
4. Determines if the airship is being affected by updrafts or downdrafts.
5. Neutralizes the elevator and rudder controls.
6. Observes the attitude of the airship and pressure differential in the ballonets.
7. Determines trim and static condition.
8. Adjusts trim properly.

E. TASK: MANUAL PRESSURE CONTROL

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to manual pressure control.
2. Controls the pressure manually as recommended by the manufacturer to a predetermined valve(s) setting.
3. Monitors operation of pressure valves and system.
4. Maintains a constant altitude, ±200 feet.

F. TASK: STATIC AND DYNAMIC TRIM

REFERENCES: Airship Pilot Manual; Airship Aerodynamics Technical Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to static and dynamic trim.
2. Establishes static trim for various weight conditions.
3. Establishes dynamic trim for various flight conditions.

VI. AREA OF OPERATION: GROUND REFERENCE MANEUVERS

NOTE: The evaluator shall select at least one ground reference maneuver.

NOTE: For single-seat applicants, the evaluator shall select TASK A.

A. TASK: RECTANGULAR COURSE

REFERENCES: FAA-H-8083-3; Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to a rectangular course.
2. Selects a suitable altitude and ground reference.
3. Plans the maneuver so as to enter at traffic pattern altitude, at an appropriate distance from the selected reference area.
4. Applies adequate wind drift correction during straight-and-turning flight to maintain a constant ground track around the rectangular reference area.
5. Divides attention between coordinated airship control and the ground track.
6. Maintains altitude, ±200 feet.

B. TASK: TURNS AROUND A POINT

REFERENCES: FAA-H-8083-3; Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to turns around a point.
2. Selects the ground reference point.
3. Plans the maneuver so as to not descend below 600 feet above the ground at an appropriate distance from the referencepoint.
4. Applies adequate wind drift correction to track a constant radius circle around the selected reference point.
5. Divides attention between airship control and the ground track, and maintains coordinated flight.
6. Maintains altitude, ±200 feet.

VII. AREA OF OPERATION: NAVIGATION

A. TASK: PILOTAGE AND DEAD RECKONING

REFERENCE: FAA-H-8083-25.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to pilotage and dead reckoning.
2. Follows the preplanned course solely by visual reference to landmarks.
3. Identifies landmarks by relating the surface features to chart symbols.
4. Navigates by means of precomputed headings, groundspeed, and elapsed time.
5. Makes a reasonable estimate of heading, groundspeed, arrival time, and fuel consumption to the destination.
6. Corrects for, and records, the differences between preflight fuel, groundspeed, and heading calculations and those determined en route.
7. Verifies the airship's position within 3 nautical miles of the flight-planned route at all times.
8. Arrives at the en route checkpoints or destination within 5 minutes of the ETA.
9. Maintains the appropriate altitude, ±200 feet and established heading, ±20°.
10. Completes all appropriate checklists.

B. TASK: DIVERSION

REFERENCES: AIM; FAA-H-8083-25.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to diversion.
2. Selects an appropriate alternate airport and route.
3. Diverts promptly toward the alternate airport.
4. Makes a reasonable estimate of heading, groundspeed, arrival time, and fuel consumption to the alternate airport.
5. Maintains the appropriate altitude, ±200 feet and established heading, ±20°.

C. TASK: LOST PROCEDURES

REFERENCES: AIM; FAA-H-8083-25.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to lost procedures.
2. Selects the best course of action when given a lost situation.
3. Maintains the original or an appropriate heading and climbs, if necessary.
4. Identifies the nearest concentration of prominent landmarks.
5. Uses navigation systems/facilities and/or contacts an appropriate ATC facility for assistance.

VIII. AREA OF OPERATION: EMERGENCY OPERATIONS

NOTE: These TASKs are knowledge TASKs only.

A. TASK: ENGINE FIRE DURING FLIGHT

REFERENCES: FAA-H-8083-3, FAA-H-8083-25; Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant exhibits knowledge of the elements related to engine fire during flight by explaining the procedures used for:

1. Applying full power in an attempt to blow out the fire in the affected engine.
2. Extinguishing the fire.
3. Shutting down the engine, using the checklist, if the fire persists.
4. Preparing to land at the earliest opportunity.
5. Follows the appropriate checklist.

B. TASK: ENVELOPE EMERGENCIES

REFERENCES: Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant exhibits knowledge of the elements related to envelope emergencies by explaining the procedures used for:

1. A puncture or rip in the gas envelope and/or in a ballonet.
2. An excessive helium loss.
3. Rain/icing on the envelope.
4. Emergency valve operations.
5. Emergency air-to-helium operations.

C. TASK: FREE BALLOONING

REFERENCES: Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to free ballooning.
2. Assesses airship static condition and determines ballast needs.
3. Establishes equilibrium in a timely manner.
4. Turns off all nonessential electrical equipment.
5. Determines cause of engine failure and attempts restart.
6. Selects suitable landing site and establishes communications with the crew.
7. Uses minimum helium valving and ballast dumping during descent.
8. Secures loose equipment.
9. Completes the appropriate emergency checklist.

D. TASK: DITCHING AND EMERGENCY LANDING

REFERENCES: Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to ditching and emergency landing.
2. Simulates jettisoning ballast, considering potential fire hazard when dumping fuel.
3. Instructs passengers in safety procedures.
4. Ensures life jackets are on correctly, if ditching.
5. Secures loose equipment.
6. Simulates securing all systems to minimize chance of fire or other damage.
7. Completes the appropriate emergency checklist.

E. TASK: SYSTEMS AND EQUIPMENT MALFUNCTIONS

REFERENCES: FAA-H-8083-25; Airship Flight Manual.

NOTE: The evaluator shall not simulate a system or equipment malfunction in a manner that may jeopardize safe flight or result in possible damage to the airship.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to causes, indications and pilot actions for various systems and equipmentmalfunctions.
2. Analyzes the situation and takes action, appropriate to the airship used for the practical test, in at least three (3) of the following areas, if applicable—

    a. Control system/actuator malfunction.
    b. Fuel starvation.
    c. Electrical system malfunction.
    d. Propeller malfunction.
    e. Pressure system malfunction.

F. TASK: EMERGENCY EQUIPMENT AND SURVIVAL GEAR

NOTE: This TASK shall be evaluated orally.

REFERENCE: Airship Flight Manual.

Objective. To determine that the applicant exhibits knowledge of the elements related to emergency equipment appropriate to the following environmental conditions:

1. Mountainous terrain.
2. Large bodies of water.
3. Desert conditions.
4. Extreme temperature changes.

IX. AREA OF OPERATION: POSTFLIGHT PROCEDURES

NOTE: For single-seat applicants, the evaluator shall select all TASKs applicable to the aircraft.

A. TASK: MASTING

REFERENCES: Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to masting.
2. Maintains coordination with crew chief through use of proper hand signals and voice commands.
3. Remains in control of airspeed and positions airship properly.
4. Coordinates use of power and flight controls.
5. Places airship in proper trim and ballast when approaching themast.
6. Completes the appropriate checklist.

B. TASK: POST-MASTING

REFERENCES: Airship Pilot Manual; Airship Flight Manual.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to post-masting,appropriate to the airship used for the practical test.
2. Uses proper engine shutdown procedures.
3. Complies with equipment requirements for maintaining envelope pressure.
4. Ensures mast security relative to weather conditions.
5. Gives consideration to weather with the airship on the mast.
6. Completes the appropriate checklist.

Section 2

Sport Pilot

Balloon

Applicant's Practical Test Checklist

Appointment with Evaluator

Evaluator's Name _____

Location _____

Date/Time _____

ACCEPTABLE AIRCRAFT

- ☐ Aircraft Documents: Airworthiness Certificate, Registration Certificate, and Operating Limitations
- ☐ Aircraft Maintenance Records: Logbook Record of Inspections/Airworthiness Directives/Safety Directives
- ☐ Pilot's Operating Handbook or FAA-Approved Flight Manual or Manufacturer's Operating Instructions

PERSONAL EQUIPMENT

- ☐ Current Aeronautical Charts
- ☐ Computer and Plotter
- ☐ Flight Plan Form
- ☐ Flight Logs
- ☐ Current AIM, Chart Supplements, and appropriate publications

PERSONAL RECORDS

- ☐ Identification—Photo/Signature ID
- ☐ Pilot Certificate
- ☐ Medical Certificate, Driver's License, or show compliance with 14 CFR part 68
- ☐ Completed FAA Form 8710-11, Application for an Airman Certificate and/or Rating—Sport Pilot
- ☐ AKTR
- ☐ Logbook with Instructor's Endorsement
- ☐ FAA Form 8060-5, Notice of Disapproval of Application (if applicable)
- ☐ Evaluator's Fee (if applicable)

Evaluator's Practical Test Checklist

Applicant's Name _____

Location _____

Date/Time _____

I. PREFLIGHT PREPARATION

☐ A. Certificates and Documents
☐ B. Airworthiness Requirements
☐ C. Weather Information
☐ D. Flight Planning
☐ E. National Airspace System
☐ F. Operation of Systems
☐ G. Aeromedical Factors
☐ J. Performance and Limitations
☐ K. Principles of Flight

II. PREFLIGHT PROCEDURES

☐ A. Launch Site Selection
☐ B. Crew Briefing and Preparation
☐ C. Layout and Assembly
☐ D. Preflight Inspection
☐ E. Inflation
☐ F. Basket/Gondola Management
☐ G. Pre-launch Check

III. AIRPORT OPERATIONS

☐ A. Radio Communications

IV. LAUNCHES AND LANDINGS

☐ A. Normal Launch
☐ B. Launch Over Obstacle
☐ C. Approach to Landing
☐ D. Normal Landing
☐ E. High-Wind Landing

V. PERFORMANCE MANEUVERS

☐ A. Ascents
☐ B. Altitude Control (Level Flight)
☐ C. Descents
☐ D. Contour Flying
☐ E. Obstruction Clearance
☐ F. Tethering

- ☐ G. Winter Flying
- ☐ H. Mountain Flying

VI. NAVIGATION

- ☐ Navigation

VII. EMERGENCY OPERATIONS

- ☐ A. Systems and Equipment Malfunctions
- ☐ B. Emergency Equipment and Survival Gear
- ☐ C. Water Landing
- ☐ E. Thermal Flight

VIII. POSTFLIGHT PROCEDURES

- ☐ A. Recovery
- ☐ B. Deflation and Packing
- ☐ C. Refueling

I. AREA OF OPERATION: PREFLIGHT PREPARATION

A. TASK: CERTIFICATES AND DOCUMENTS

REFERENCES: 14 CFR parts 43, 61, 91; FAA-H-8083-11, FAA-H-8083-25; Balloon Flight Manual/POH/FAA Operating Limitations.

Objective. To determine that the applicant exhibits knowledge of the elements related to certificates and documents by:

1. Explaining—

    a. certificate privileges, limitations, and currency requirements.
    b. medical fitness.
    c. pilot logbook or flight records.

2. Locating and explaining—

    a. airworthiness and registration certificates.
    b. operating limitations, placards, instrument markings, and flight manual/POH information.
    c. weight and balance data and/or equipment list.

B. TASK: AIRWORTHINESS REQUIREMENTS

REFERENCES: 14 CFR part 91; FAA-H-8083-11, FAA-H-8083-25; Aircraft Operating Limitations.

Objective. To determine that the applicant exhibits knowledge of the elements related to airworthiness requirements by:

1. Explaining—

    a. required instruments and equipment for day VFR.
    b. procedures and limitations for determining airworthiness of aircraft with inoperative instruments and equipment.

2. Explaining—

    a. airworthiness directives/safety directives (as applicable to the aircraft brought for flight test).
    b. maintenance/inspection requirements and appropriate recordkeeping.

C. TASK: WEATHER INFORMATION

REFERENCES: 14 CFR part 91; AC 61-134; FAA-H-8083-25, FAA-H-8083-28; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to real time weather information appropriate to the specific category/class aircraft by consulting the weather reports, charts, and forecasts from aeronautical weather reporting sources.
2. Makes a competent “go/no-go” decision based on available weather information.
3. Describes importance of avoiding adverse weather and inadvertent entry into IMC.
4. Explains courses of action to safely exit from an inadvertent IMC encounter.

D. TASK: FLIGHT PLANNING

REFERENCES: 14 CFR part 91; FAA-H-8083-25; Navigation Charts; Chart Supplements; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to flight planning appropriate to the aircraft.
2. Uses appropriate and current aeronautical charts.
3. Properly identifies airspace, obstructions, and terrain features.
4. Selects easily identifiable checkpoints, as appropriate.
5. Selects most favorable altitudes considering weather conditions and equipment capabilities.
6. Computes headings, flight time, and fuel requirements.
7. Selects appropriate navigation system/facilities and communication frequencies, if so equipped.
8. Applies pertinent information from NOTAMs, Chart Supplements, and other flight publications.

E. TASK: NATIONAL AIRSPACE SYSTEM

REFERENCES: 14 CFR parts 71, 91; Navigation Charts; AIM.

Objective. To determine that the applicant exhibits knowledge of the elements related to the National Airspace System by explaining:

1. Basic VFR weather minimums, operating rules, pilot certification, and aircraft equipment requirements for the following classes of airspace—

    a. Class B.
    b. Class C.
    c. Class D.
    d. Class E.
    e. Class G.

2. Special use and other airspace areas.
3. TFRs.

F. TASK: OPERATION OF SYSTEMS

REFERENCES: FAA-H-8083-25; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to the operation of systems on the light-sport aircraft provided for the flight test by explaining at least three (3) of the following systems:

1. Fuel system, burners, pilot lights, and associated gauges.
2. Venting and/or deflation systems.
3. Flight instruments and gauges.
4. Avionics/communications system, as appropriate.

G. TASK: AEROMEDICAL FACTORS

REFERENCES: FAA-H-8083-25; AIM.

Objective. To determine that the applicant exhibits knowledge of the elements related to aeromedical factors by explaining:

1. The effects of alcohol, drugs, and over-the-counter medications.
2. The effects of excess nitrogen during scuba dives upon a pilotor passenger in flight.
3. The symptoms, causes, effects, and corrective actions of at least three (3) of the following—

    a. hypoxia.
    b. hyperventilation.
    c. middle ear and sinus problems.
    d. spatial disorientation.
    e. motion sickness.
    f. carbon monoxide poisoning.
    g. stress and fatigue.
    h. dehydration.
    i. hypothermia.

H. TASK: PERFORMANCE AND LIMITATIONS

REFERENCES: FAA-H-8083-11, FAA-H-8083-25; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to performance andlimitations by explaining the use of appropriate data, if availablefrom the manufacturer, to determine performance. This shall include operational characteristics and loading, and the adverseeffects of exceeding limitations.
2. Computes operating weight, maximum load, and expected envelope temperature, as related to maximum envelopetemperature.
3. Determines balloon performance, considering density altitude, wind, other weather related conditions, and terrain.
4. Determines normal and maximum rates of ascent and descent, and the altitude required to arrest high rates of descent.
5. Determines envelope temperatures, including never-exceed temperature and maximum continuous temperature, if appropriate.
6. Determines whether the computed performance is within the balloon's capabilities and operating limitations.

I. TASK: PRINCIPLES OF FLIGHT

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements of principles of flight by describing:

1. Physical laws applicable to balloon flight. Laws of Archimedes, Bernoulli, Boyle, and Charles.
2. Effects of changes in temperature, pressure, humidity, and altitude on maintaining equilibrium.
3. Effects of false or uncontrolled lift during takeoff, landing, and windshear penetration.

II. AREA OF OPERATION: PREFLIGHT PROCEDURES

NOTE: For single-seat applicants, the evaluator shall select at least TASKs A, B, C, D, E, F, and G.

A. TASK: LAUNCH SITE SELECTION

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to launch siteselection.
2. Arranges to launch with adequate time to complete the flight safely considering wind, weather conditions, and landing sites.
3. Selects a launch site with emphasis on—

    a. suitable landing areas.
    b. airspace considerations.
    c. surface wind and winds aloft.
    d. accessibility.
    e. size and surface condition.
    f. hazards and obstacles in the vicinity of the site.

4. Makes a competent “go/no-go” decision considering all of the factors involved in the selection of a safe launch site.

B. TASK: CREW BRIEFING AND PREPARATION

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to crew briefing and preparation.
2. Designates a crew chief, if appropriate, and assigns each crewmember specific duties and responsibilities, considering the experience level of each crewmember.
3. Briefs crewmembers in all areas of the flight, including layout and assembly; tie-off, if appropriate; inflation; in-flight; landing; recovery; and emergency procedures.
4. Establishes a common means of communication, such as hand signals and/or two-way radio.
5. Describes the proposed direction of flight and the estimated time aloft.
6. Ensures that all necessary equipment is on board.
7. Supervises and coordinates all activities.
8. Completes the appropriate checklist.

C. TASK: LAYOUT AND ASSEMBLY

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to layout and assembly.
2. Positions balloon properly, considering wind conditions and obstacles.
3. Checks fuel system for security, leaks, and correct fuel pressure.
4. Uses tie-off, if appropriate.
5. Assembles balloon as appropriate.
6. Completes the appropriate checklist.

D. TASK: PREFLIGHT INSPECTION

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to visual inspection. This shall include which items must be inspected, the reasons for checking each item, and how to detect possible defects.

2. Inspects the balloon with reference to the checklist emphasizing the—

    a. basket.
    b. fuel system.
    c. flight instruments.
    d. fire extinguisher items.
    e. envelope.
    f. venting and/or deflation systems.
    g. suspension and handling lines.

4. Verifies the balloon is in condition/airworthy for safe flight.
5. Completes the appropriate checklist.

E. TASK: INFLATION

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to inflation.
2. Accomplishes the proper tie-off procedure, if appropriate.
3. Positions the inflator for cold inflation.
4. Begins ignition and hot air inflation.
5. Inflates the balloon to a vertical position.
6. Positions and secures the vent/deflation lines.
7. Completes the appropriate checklist.

F. TASK: BASKET/GONDOLA MANAGEMENT

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.\

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to basket/gondola management procedures.
2. Ensures all loose items in the basket/gondola are secured.
3. Brief passengers on the proper boarding, in-flight, and landing behavior and procedures.
4. Organizes material and equipment in a logical, efficient manner.
5. Completes the appropriate checklist.

G. TASK: PRE-LAUNCH CHECK

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to the pre-launch check. This shall include the reasons for checking each item and how to detect malfunctions.
2. Reviews the wind conditions, temperatures, and obstructions.
3. Divides attention inside and outside the basket/gondola.
4. Performs final instrument check.
5. Ensures that the vent/deflation lines are positioned and secured properly.
6. Determines equilibrium.
7. Accomplishes the pre-launch check and confirms that the balloon is in condition/airworthy for safe flight.
8. Accomplishes final coordination with the ground crew, including signals and emergency procedures.
9. Assures no conflict with traffic prior to launch.
10. Completes the appropriate checklist.

III. AREA OF OPERATION: AIRPORT OPERATIONS

A. TASK: RADIO COMMUNICATIONS

NOTE: If the aircraft is not radio equipped, this TASK shall be tested orally for procedures ONLY.

REFERENCES: 14 CFR part 91; FAA-H-8083-25; AIM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to radio communications at airports without operating control towers.
2. Selects appropriate frequencies.
3. Transmits using recommended phraseology.
4. Acknowledges radio communications.

IV. AREA OF OPERATION: LAUNCHES AND LANDINGS

NOTE: For single-seat applicants, the evaluator shall select all TASKs.

A. TASK: NORMAL LAUNCH

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to a normal launch.
2. Directs ground crew to clear the area.
3. Recognizes equilibrium.
4. Uses tie-off quick release line correctly, if appropriate.
5. Recognizes presence of false lift and wind conditions.
6. Coordinates lift-off and initial ascent.
7. Completes the appropriate checklist.

B. TASK: LAUNCH OVER OBSTACLE

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to a launch overan obstacle.
2. Determines the height of the obstacle.
3. Considers the distance to the obstacle relative to the windconditions.
4. Uses tie-off quick release line correctly, if appropriate.
5. Recognizes the presence of false lift.
6. Acts decisively so as to clear the obstacle safely.
7. Completes the appropriate checklist.

C. TASK: APPROACH TO LANDING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to an approach tolanding.
2. Considers the wind conditions, landing area, obstructions, andsurface, and selects the most suitable touchdown point.
3. Establishes the appropriate approach profile and rate(s) ofdescent.
4. Ensures that each passenger is thoroughly briefed andpositioned properly in accordance with landing conditions.
5. Stows loose articles and secures equipment, as appropriate.
6. Makes a timely decision to abort the approach, if necessary.
7. Completes the appropriate checklist.

D. TASK: NORMAL LANDING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to a normal landing.
2. Prepares vent/deflation system for use.
3. Touches down within the designated area or aborts the landing and ascends as specified by the evaluator.
4. Uses burner controls, vent/deflation system properly to stabilize balloon on touchdown.
5. Stabilizes balloon prior to passengers exiting.
6. Completes the appropriate checklist.

E. TASK: HIGH-WIND LANDING

NOTE: If a high-wind condition does not exist, the applicant's knowledge of the TASK shall be evaluated through oral testing.

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to a high-wind landing.
2. Ensures a thorough briefing to include positioning of occupants and securing of equipment.
3. Identifies hazards associated with a high-wind landing.
4. Selects a landing site appropriate for high-wind conditions.
5. Prepares vent/deflation system for use.
6. Uses burner controls and vent/deflation system to land the balloon and control ground travel.
7. Touches down within the designated area or aborts the landingand ascends as specified by the evaluator.
8. Extinguishes pilot lights at the appropriate time.
9. Completes the appropriate checklist.

V. AREA OF OPERATION: PERFORMANCE MANEUVERS

NOTE: For single-seat applicants, the evaluator shall select at least TASKs A, B, C, D, E, and F.

A. TASK: ASCENTS

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to ascents.
2. Transitions from level flight to ascent, as specified by the evaluator.
3. Ascends at an appropriate rate, ±100 feet per minute.
4. Transitions from ascent to level flight at an altitude specified by the evaluator ±100 feet.

B. TASK: ALTITUDE CONTROL (LEVEL FLIGHT)

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to altitude control.
2. Recognizes vertical movement.
3. Maintains equilibrium by smooth use of burner controls.
4. Uses instruments to assist in altitude control.
5. Maintains assigned altitudes, ±100 feet.

C. TASK: DESCENTS

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to descents.
2. Transitions from level flight to descent, as specified by the evaluator.
3. Descends at a specified rate, ±100 feet per minute.
4. Transitions from descent to level flight at an altitude specified by the evaluator, ±100 feet.

D. TASK: CONTOUR FLYING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to contour flying.
2. Uses all controls properly to maintain the desired altitude, based on the appropriate clearance over terrain and obstacles.
3. Considers the effects of wind gusts, wind shear, thermal activity and orographic conditions.
4. Allows adequate clearance for livestock and other animals.
5. Divides attention between balloon control, ground track, visual scanning and forward surveillance.

E. TASK: OBSTRUCTION CLEARANCE

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to obstruction clearance.
2. Recognizes obstructions, including powerlines, and allows time to take appropriate action.
3. Uses proper procedures to avoid obstructions.
4. Uses proper procedures when collision is imminent.

F. TASK: TETHERING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to tethering by explaining:

1. The proper recognition of wind conditions and obstructions.
2. The recognition of the effects of false lift and wind gusts.
3. The recommended tethering procedure with emphasis on utilizing an adequate number of appropriate tether lines ofadequate strength, in the proper location.
4. The briefing for ground crewmembers, to include crowd control.

G. TASK: WINTER FLYING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to winter flying by explaining:

1. The proper preparation, equipment, and survival supplies necessary for flight in cold temperatures.
2. The proper methods for pressurizing fuel tanks.
3. The added concerns for fuel vaporization, leaks, and risk of fire during cold weather.

H. TASK: MOUNTAIN FLYING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to mountain flying by explaining:

1. The proper preparation, equipment, and survival supplies necessary for flight over mountainous terrain.
2. The accessibility to landing areas.
3. The recognition of cloud formations and descending air currents on the leeward side of mountains as evidence ofpossible turbulence.
4. The caution required in regard to windshear encounters and possible rapid weather changes.

VI. AREA OF OPERATION: NAVIGATION

A. TASK: NAVIGATION

REFERENCE: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to navigation.
2. Identifies airspace and altitude restrictions.
3. Identifies landmarks by relating surface features to chart symbols.
4. Verifies the balloon's position at all times.
5. Manages fuel properly.
6. Determines the duration of the flight, considering—

    a. availability of suitable landing areas.
    b. fuel consumption.
    c. wind and other atmospheric conditions.
    d. obstructions.
    e. payload.

7. Notes the differences, if any, between preflight flight planning and the actual flight.
8. Completes the appropriate checklist.

VII. AREA OF OPERATION: EMERGENCY OPERATIONS

NOTE: These TASKs are knowledge TASKs only.

A. TASK: SYSTEMS AND EQUIPMENT MALFUNCTIONS

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to systems and equipment malfunctions appropriate to the balloon used for the practical test.
2. Analyzes the situation and takes the appropriate action for simulated emergencies, such as—

    a. pilot light flameout or failure.
    b. blast valve failure.
    c. fuel exhaustion.
    d. propane leak.
    e. envelope failure.
    f. any other systems and equipment malfunction appropriateto the balloon provided for the flight test.

3. Follows the appropriate emergency checklist.

B. TASK: EMERGENCY EQUIPMENT AND SURVIVAL GEAR

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to emergency equipment and survival gear appropriate to the balloon providedfor the practical test, such as—

    a. location and purpose.
    b. method of operation or use.
    c. servicing requirements.
    d. method of safe storage.
    e. equipment and survival gear appropriate for operation invarious climates and topographical environments.

C. TASK: WATER LANDING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to water landing by explaining:

1. The emergency conditions under which water landings are necessary.
2. The effect of wind direction and speed, and water current.
3. The preparation required for contact with water, to include briefing passengers.
4. The procedure to be used for actual water landing.

D. TASK: THERMAL FLIGHT

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to thermal flight by explaining:

1. The conditions that cause thermal activity.
2. The recognition of convective conditions and associated hazards.
3. The effects of thermal activity on balloon flight.
4. The procedures to be used upon encountering thermal activity.

VIII. AREA OF OPERATION: POSTFLIGHT PROCEDURES

NOTE: For single-seat applicants, the evaluator shall select TASKs Aand B.

A. TASK: RECOVERY

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to recovery.
2. Coordinates landing and recovery with landowner, as appropriate.
3. Minimizes property damage during recovery.
4. Supervises ground crew during recovery, including vehicle and spectator control.
5. Debriefs crewmembers on all flight activities.

B. TASK: DEFLATION AND PACKING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to deflation and packing.
2. Ensures the fuel system is secure.
3. Deflates envelope properly, considering wind conditions and obstacles.
4. Disassembles envelope and basket components, as appropriate.
5. Packs and stores envelope, basket and components, and fuel system, as appropriate.
6. Performs satisfactory postflight inspection.
7. Completes the appropriate checklist.

C. TASK: REFUELING

REFERENCES: FAA-H-8083-11; Balloon Flight Manual/POH.

Objective. To determine that the applicant exhibits knowledge of the elements related to refueling by explaining:

1. A crewmember briefing on safety precautions.
2. The danger of explosion and burns when handling propane.
3. The need for adequate ventilation.
4. Water contamination.
5. The proper method of filling the cylinders, as appropriate.

Section 3

Sport Pilot

Flight Instructor

Applicant's Practical Test Checklist

Appointment with Evaluator

Evaluator's Name_____

Location_____

Date/Time_____

ACCEPTABLE AIRCRAFT

- ☐ Aircraft Documents: Airworthiness Certificate
- ☐ Registration Certificate
- ☐ Aircraft Maintenance Records: Airworthiness Inspections/Airworthiness Directives/Safety Directives
- ☐ Pilot's Operating Handbook or FAA-Approved Flight Manual or Manufacturer's Operating Instructions

PERSONAL EQUIPMENT

- ☐ Current Aeronautical Charts
- ☐ Computer and Plotter
- ☐ Flight Plan Form
- ☐ Flight Logs
- ☐ Current AIM
- ☐ Current Chart Supplements

PERSONAL RECORDS

- ☐ Identification—Photo/Signature ID
- ☐ Pilot Certificate
- ☐ Medical Certificate, Driver's License, or show compliance with 14 CFR part 68
- ☐ Completed FAA Form 8710-11, Application for an Airman Certificate and/or Rating—Sport Pilot
- ☐ AKTR
- ☐ Logbook with Instructor's Endorsement
- ☐ FAA Form 8060-5, Notice of Disapproval of Application (if applicable)
- ☐ Evaluator's Fee (if applicable)

Evaluator's Practical Test Checklist

Flight Instructor Airship

Applicant's Name_____

Location_____

Date/Time_____

I. FUNDAMENTALS OF INSTRUCTING

Note: The evaluator must select TASK F and one other TASK.

☐ A. The Learning Process
☐ B. Human Behavior and Effective Communication
☐ C. The Teaching Process
☐ D. Teaching Methods
☐ E. Critique and Evaluation
☐ **F. Flight Instructor Characteristics and Responsibilities**
☐ G. Planning Instructional Activity

II. TECHNICAL SUBJECT AREAS

Note: The evaluator must select TASK D and at least one otherTASK.

☐ A. Aeromedical Factors
☐ B. Visual Scanning and Collision Avoidance
☐ C. Federal Aviation Regulations and Publications
☐ **D. Logbook Entries and Certificate Endorsements**

III. PREFLIGHT LESSON ON A MANEUVER TO BE PERFORMED IN FLIGHT

Note: The evaluator must select at least one maneuver TASK.

☐ **A. Maneuver Lesson**

Instructor applicants must be tested in the following areas of operation appropriate to the aircraft category/class instructor privileges they seek (refer to the appropriate category/class sectionof the PTS). Notes listed under each area of operation identify the TASKs that must be tested. In some cases the specific TASK is identified, in other cases a minimum number of TASKs are identified.

SECTION 1 OF THE PTS

AREAS OF OPERATION

I. PREFLIGHT PREPARATION

Note: The evaluator must select two TASKs.

- ☐ A. Certificates and Documents
- ☐ B. Airworthiness Requirements
- ☐ C. Weather Information
- ☐ D. Cross-Country Flight Planning
- ☐ E. National Airspace System
- ☐ F. Operation of Systems
- ☐ G. Aeromedical Factors
- ☐ H. Performance and Limitations
- ☐ I. Principles of Flight

II. PREFLIGHT PROCEDURES

Note: The evaluator must select two TASKs.

- ☐ A. Preflight Inspection
- ☐ B. Flight Deck/Gondola/Car Management
- ☐ C. Engine Starting
- ☐ D. Unmasting and Positioning for Takeoff
- ☐ E. Ground Handling
- ☐ F. Before Takeoff Check

III. AIRPORT OPERATIONS

Note: The evaluator must select TASK C.

- ☐ A. Radio Communications
- ☐ B. Traffic Patterns
- ☐ **C. Airport and Runway Markings and Lighting**

IV. TAKEOFFS, LANDINGS, AND GO-AROUNDS

Note: The evaluator must select TASKs A, B or C, and D or E.

- ☐ A. Ground Weigh-Off
- ☐ B. Up-Ship Takeoff
- ☐ C. Wheel Takeoff\
- ☐ D. Approach and Landing
- ☐ E. Go-Around

V. PERFORMANCE MANEUVERS

Note: The evaluator must select two TASKs.

- ☐ A. Straight-and-Level Flight
- ☐ B. Ascents and Descents
- ☐ C. Level Turns
- ☐ D. In-Flight Weigh-Off
- ☐ E. Manual Pressure Control
- ☐ F. Static and Dynamic Trim

VI. GROUND REFERENCE MANEUVERS

Note: The evaluator must select one TASK.

- ☐ A. Rectangular Course
- ☐ B. Turns Around a Point

VII. NAVIGATION

Note: The evaluator must select one TASK.

- ☐ A. Pilotage and Dead Reckoning
- ☐ B. Diversion
- ☐ C. Lost Procedures

VIII. EMERGENCY OPERATIONS

Note: The evaluator must select one TASK.

- ☐ A. Engine Fire During Flight
- ☐ B. Envelope Emergencies
- ☐ C. Free Ballooning
- ☐ D. Ditching and Emergency Landing
- ☐ E. Systems and Equipment Malfunctions
- ☐ F. Emergency Equipment and Survival Gear

IX. POSTFLIGHT PROCEDURES

Note: The evaluator must select one TASK.

- ☐ A. Masting
- ☐ B. Post-masting

Instructor's Proficiency Check Checklist

Flight Instructor Airship

Applicant's Name_____

Location_____

Date/Time_____

I. FUNDAMENTALS OF INSTRUCTING

Note: The instructor may select any of the below listed FOI TASKs for a proficiency check. However, these TASKs are notrequired on a proficiency check.

☐ A. The Learning Process
☐ B. Human Behavior and Effective Communication
☐ C. The Teaching Process
☐ D. Teaching Methods
☐ E. Critique and Evaluation
☐ F. Flight Instructor Characteristics and Responsibilities
☐ G. Planning Instructional Activity

II. TECHNICAL SUBJECT AREAS

Note: The instructor must select TASK D and at least one otherTASK.

☐ A. Aeromedical Factors
☐ B. Visual Scanning and Collision Avoidance
☐ C. Federal Aviation Regulations and Publications
☐ **D. Logbook Entries and Certificate Endorsements**

III. PREFLIGHT LESSON ON A MANEUVER TO BE PERFORMED IN FLIGHT

Note: The instructor must select at least one maneuver TASK.

☐ **A. Maneuver Lesson**

Instructor applicants must be tested in the following areas of operation appropriate to the aircraft category/class instructor privileges they seek (refer to the appropriate category/class sectionof the PTS). Notes listed under each area of operation identify the TASKs that must be tested. In some cases the specific TASK is identified, in other cases a minimum number of TASKs are identified.

SECTION 1 OF THE PTS

AREAS OF OPERATION

I. PREFLIGHT PREPARATION

Note: The instructor must select TASKs F and I.

- ☐ A. Certificates and Documents
- ☐ B. Airworthiness Requirements
- ☐ C. Weather Information
- ☐ D. Cross-Country Flight Planning
- ☐ E. National Airspace System
- ☐ **F. Operation of Systems**
- ☐ G. Aeromedical Factors
- ☐ H. Performance and Limitations
- ☐ **I. Principles of Flight**

II. PREFLIGHT PROCEDURES

Note: The instructor must select TASKs A and D.

- ☐ **A. Preflight Inspection**
- ☐ B. Flight Deck Management
- ☐ C. Engine Starting
- ☐ **D. Unmasting and Positioning for Takeoff**
- ☐ E. Ground Handling
- ☐ F. Before Takeoff Check

III. AIRPORT OPERATIONS

Note: The instructor must select TASK C.

- ☐ A. Radio Communications
- ☐ B. Traffic Patterns
- ☐ **C. Airport and Runway Markings and Lighting**

IV. TAKEOFFS, LANDINGS, AND GO-AROUNDS

Note: The instructor must select TASKs A, B or C, and D or E.

- ☐ A. Ground Weigh-Off
- ☐ B. Up-Ship Takeoff
- ☐ C. Wheel Takeoff
- ☐ D. Approach and Landing
- ☐ E. Go-Around

V. PERFORMANCE MANEUVERS

Note: The instructor must select two TASKs.

- ☐ A. Straight-and-Level Flight
- ☐ B. Ascents and Descents
- ☐ C. Level Turns
- ☐ D. In-Flight Weigh-Off
- ☐ E. Manual Pressure Control
- ☐ F. Static and Dynamic Trim

VI. GROUND REFERENCE MANEUVERS

Note: The instructor must select one TASK.

- ☐ A. Rectangular Course
- ☐ B. Turns Around a Point

VII. NAVIGATION

Note: The instructor must select one TASK.

- ☐ A. Pilotage and Dead Reckoning
- ☐ B. Diversion
- ☐ C. Lost Procedures

VIII. EMERGENCY OPERATIONS

Note: The instructor must select one TASK.

- ☐ A. Engine Fire During Flight
- ☐ B. Envelope Emergencies
- ☐ C. Free Ballooning
- ☐ D. Ditching and Emergency Landing
- ☐ E. Systems and Equipment Malfunctions
- ☐ F. Emergency Equipment and Survival Gear

IX. POSTFLIGHT PROCEDURES

Note: The instructor must select one TASK.

- ☐ A. Masting
- ☐ B. Post-masting

Evaluator's Practical Test Checklist

Flight Instructor Balloon

Applicant's Name_____

Location_____

Date/Time_____

I. FUNDAMENTALS OF INSTRUCTING

Note: The evaluator must select TASK F and one other TASK.

☐ A. The Learning Process
☐ B. Human Behavior and Effective Communication
☐ C. The Teaching Process
☐ D. Teaching Methods
☐ E. Critique and Evaluation
☐ **F. Flight Instructor Characteristics and Responsibilities**
☐ G. Planning Instructional Activity

II. TECHNICAL SUBJECT AREAS

Note: The evaluator must select TASK D and at least one otherTASK.

☐ A. Aeromedical Factors
☐ B. Visual Scanning and Collision Avoidance
☐ C. Federal Aviation Regulations and Publications
☐ **D. Logbook Entries and Certificate Endorsements**

III. PREFLIGHT LESSON ON A MANEUVER TO BE PERFORMED IN FLIGHT

Note: The evaluator must select one maneuver TASK.

☐ **A. Maneuver Lesson**

Instructor applicants must be tested in the following areas of operation appropriate to the aircraft category/class instructor privileges they seek (refer to the appropriate category/class section of the PTS). Notes listed under each area of operation identify the TASKs that must be tested. In some cases the specific TASK is identified, in other cases a minimum number of TASKs are identified.

SEE SECTION 2 OF THE PTSAREAS OF OPERATION

I. PREFLIGHT PREPARATION

Note: The evaluator must select TASKs C, F, AND I.

☐ A. Certificates and Documents
☐ B. Airworthiness Requirements
☐ **C. Weather Information**
☐ D. Flight Planning

☐ E. National Airspace System
☐ **F. Operation of Systems**
☐ G. Aeromedical Factors
☐ H. Performance and Limitations
☐ **I. Principles of Flight**

II. PREFLIGHT PROCEDURES

Note: The evaluator must select TASKs C and E and one otherTASK.

☐ A. Launch Site Selection
☐ B. Crew Briefing and Preparation
☐ **C. Layout and Assembly**
☐ D. Preflight Inspection
☐ **E. Inflation**
☐ F. Basket/Gondola Management
☐ G. Pre-launch Check

III. AIRPORT OPERATIONS

Note: The evaluator must select TASK A.

☐ **A. Radio Communications**

IV. LAUNCHES AND LANDINGS

Note: The evaluator must select two TASKs.

☐ A. Normal Launch
☐ B. Launch Over Obstacle
☐ C. Approach to Landing
☐ D. Normal Landing
☐ E. High-Wind Landing

V. PERFORMANCE MANEUVERS

Note: The evaluator must select two TASKs

☐ A. Ascents
☐ B. Altitude Control (Level Flight)
☐ C. Descents
☐ D. Contour Flying
☐ E. Obstruction Clearance
☐ F. Tethering
☐ G. Winter Flying
☐ H. Mountain Flying

VI. NAVIGATION

Note: The evaluator must select TASK A.

☐ **A. Navigation**

VII. EMERGENCY OPERATIONS

Note: The evaluator must select TASK D and one other TASK.

- ☐ A. Systems and Equipment Malfunctions
- ☐ B. Emergency Equipment and Survival Gear
- ☐ C. Water Landing
- ☐ **D. Thermal Flight**

VIII. POSTFLIGHT PROCEDURES

Note: The evaluator must select one TASK.

- ☐ A. Recovery
- ☐ B. Deflation and Packing
- ☐ C. Refueling

Flight Instructor's Proficiency Check Checklist

Flight Instructor Balloon

Applicant's Name_____

Location_____

Date/Time_____

I. FUNDAMENTALS OF INSTRUCTING

Note: The instructor may select any of the below listed FOI TASKs for a proficiency check. However, these TASKs are not required on a proficiency check.

- ☐ A. The Learning Process
- ☐ B. Human Behavior and Effective Communication
- ☐ C. The Teaching Process
- ☐ D. Teaching Methods
- ☐ E. Critique and Evaluation
- ☐ F. Flight Instructor Characteristics and Responsibilities
- ☐ G. Planning Instructional Activity

II. TECHNICAL SUBJECT AREAS

Note: The instructor must select TASK D and at least one other TASK.

- ☐ A. Aeromedical Factors
- ☐ B. Visual Scanning and Collision Avoidance
- ☐ C. Federal Aviation Regulations and Publications
- ☐ **D. Logbook Entries and Certificate Endorsements**

III. PREFLIGHT LESSON ON A MANEUVER TO BE PERFORMED IN FLIGHT

Note: The instructor must select one maneuver TASK.

- ☐ **A. Maneuver Lesson**

Instructor applicants must be tested in the following areas of operation appropriate to the aircraft category/class instructor privileges they seek (refer to the appropriate category/class section of the PTS). Notes listed under each area of operation identify the TASKs that must be tested. In some cases the specific TASK is identified, in other cases a minimum number of TASKs are identified.

SEE SECTION 2 OF THE PTSAREAS OF OPERATION

I. PREFLIGHT PREPARATION

Note: The instructor must select TASKs C, F, AND I.

- ☐ A. Certificates and Documents
- ☐ B. Airworthiness Requirements
- ☐ **C. Weather Information**
- ☐ D. Flight Planning
- ☐ E. National Airspace System
- ☐ **F. Operation of Systems**
- ☐ G. Aeromedical Factors
- ☐ H. Performance and Limitations
- ☐ **I. Principles of Flight**

II. PREFLIGHT PROCEDURES

Note: The instructor must select TASKs C and E and one otherTASK.

- ☐ A. Launch Site Selection
- ☐ B. Crew Briefing and Preparation
- ☐ **C. Layout and Assembly**
- ☐ D. Preflight Inspection
- ☐ **E. Inflation**
- ☐ F. Basket/Gondola Management
- ☐ G. Pre-launch Check

III. AIRPORT OPERATIONS

Note: The instructor must select TASK A.

- ☐ **A. Radio Communications**

IV. LAUNCHES AND LANDINGS

Note: The instructor must select two TASKs.

- ☐ A. Normal Launch
- ☐ B. Launch Over Obstacle
- ☐ C. Approach to Landing
- ☐ D. Normal Landing
- ☐ E. High-Wind Landing

V. PERFORMANCE MANEUVERS

Note: The instructor must select two TASKs.

- ☐ A. Ascents
- ☐ B. Altitude Control (Level Flight)
- ☐ C. Descents
- ☐ D. Contour Flying
- ☐ E. Obstruction Clearance
- ☐ F. Tethering
- ☐ G. Winter Flying
- ☐ H. Mountain Flying

VI. NAVIGATION

Note: The instructor must select TASK A.

☐ **A. Navigation**

VII. EMERGENCY OPERATIONS

Note: The instructor must select TASK D and one other TASK.

☐ A. Systems and Equipment Malfunctions
☐ B. Emergency Equipment and Survival Gear
☐ C. Water Landing
☐ **D. Thermal Flight**

VIII. POSTFLIGHT PROCEDURES

Note: The instructor must select one TASK.

☐ A. Recovery
☐ B. Deflation and Packing
☐ C. Refueling

FLIGHT INSTRUCTOR CERTIFICATE WITH SPORT PILOT PRIVILEGES

Flight Instructor Practical Test Section Description

This section provides guidance and procedures for obtaining a Flight Instructor Certificate with a sport pilot rating and for adding privileges to an existing Flight Instructor Certificate at the sport pilot level. Information provided in the Introduction of this practical test standard also applies to this section.

The evaluator or authorized instructor determines that the applicant meets the TASK Objective through the demonstration of competency in all elements of knowledge and/or skill unless otherwise noted. The Objectives of TASKs in certain AREAS OF OPERATION, such as Fundamentals of Instructing and Technical Subjects, include only knowledge elements. Objectives of TASKs in AREAS OF OPERATION that include elements of skill, as well as knowledge, also include common errors, which the applicant shall be able to describe, recognize, analyze, and correct.

Throughout this PTS the following titles will be referred to as an evaluator: ASI, pilot examiner (other than administrative pilot examiners), TCE, chief instructor, assistant chief instructor, check instructor of a pilot school holding examining authority, or authorized instructor.

At the flight instructor level, the Objective of a TASK that involves pilot skill consists of four parts. The four parts include determination that the applicant exhibits:

1. instructional knowledge of the elements of a TASK. This is accomplished through descriptions, explanations, and simulated instruction.
2. instructional knowledge of common errors related to a TASK, including their recognition, analysis, and correction.
3. able to perform the procedures and maneuvers included in the standards at a more precise level than that indicated in the sport pilot tolerances.
4. the ability to analyze and correct common errors related to a TASK.

Use of the Flight Instructor Section

The FAA requires that all flight instructor practical tests and proficiency checks be conducted in accordance with the practical test standard. The flight instructor applicant must be prepared to demonstrate the ability to instruct effectively in **ALL** TASKs included in the AREAS OF OPERATION appropriate to the category/class unless otherwise noted.

For the purposes of this flight instructor section, a proficiency check is an evaluation of aeronautical knowledge and flight proficiency in accordance with 14 CFR part 61, section 61.419. A proficiency check shall be administered using the appropriate PTS for the category of aircraft when a flight instructor adds new category/class privileges. Upon successful completion of the proficiency check the authorized instructor will endorse the applicant's logbook indicating the added category/class of equipment that the applicant is authorized to operate. When an evaluator conducts a proficiency check they are acting in the capacity of an authorized instructor.

All of the procedures and maneuvers to be tested are included in the sport pilot practical test standards. The flight instructor section contains the AREAS OF OPERATION that are generic to all flight instructor evaluations. Flight instructors must also be tested on TASKS located in the appropriate category/class section the PTS. Those TASKs are listed in the evaluator's practical test checklist and the instructor's proficiency check checklist. The mandatory TASKs are identified by a note located in each area of operation. In some cases specific TASKs are identified. In other cases the evaluator/instructor selects one or more TASKs in an area of operation for evaluation. This allows for the practical test for initial certification and additional privileges to be completed within a reasonable time frame.

The term “instructional knowledge” means the instructor applicant is capable of using the appropriate reference to provide the "application or correlative level of knowledge" of a subject matter topic, procedure, or maneuver. It also means that the flight instructor applicant’s discussions, explanations, and descriptions should follow the recommended teaching procedures and techniques explained in FAA-H-8083-9, Aviation Instructor’s Handbook.

In preparation for the practical test or proficiency check, the evaluator or authorized instructor shall develop a written “plan of action.” The “plan ofaction” for an initial certification test shall include the required TASKs and one or more TASKs in the *Fundamentals of Instruction*, *Technical Subject Area,* and the *Preflight Lesson on a Maneuver to be Performed in Flight* AREAS OF OPERATION. Additionally, the evaluator shall test the required TASK(s) listed in the evaluator’s practical test checklist, for the appropriate category. The “plan of action” shall always include the required TASKs noted in each AREA OF OPERATION. **Any TASK selected shall be evaluated in its entirety.**

If the applicant is unable to perform a TASK listed in the “plan of action” due to circumstances beyond his/her control, the evaluator or authorizedinstructor may substitute another TASK from the applicable AREA OF OPERATION.

The “plan of action” used by an authorized instructor for a proficiency check administered for the addition of an aircraft category and/or class privilege to a Flight Instructor Certificate shall include TASKs required in the AREAS OF OPERATION as indicated in the instructor’s proficiency check checklist located in this section.

With the exception of the required TASKs, the evaluator or authorized instructor shall not tell the applicant in advance which TASKs will be included in the “plan of action.” The applicant shall be prepared in **ALL** knowledge and skill areas included in the standards. Throughout the flight portion of the practical test or proficiency check, the evaluator or authorized instructor shall evaluate the applicant’s ability to simultaneously demonstrate and explain procedures andmaneuvers, and to give flight instruction to learners at various stages of flight training and levels of experience.

The evaluator or authorized instructor expected to use good judgment inthe performance of simulated emergency procedures. The evaluator or authorized instructor shall not simulate any condition that may jeopardize safe flight or result in possible damage to the aircraft. The use of the safest means for simulation is expected. Consideration must be given to local conditions, both meteorological and topographical, at the time of the test, as well as the applicant’s workload and the condition of the aircraft used. If the procedure being evaluated would jeopardize safety, it is expected that the applicant will simulate that portion of the maneuver.

Special Emphasis Areas

Evaluators and authorized instructors shall place special emphasis upon areas of aircraft operations considered critical to flight safety. Among these are:

1. positive aircraft control;
2. procedures for positive exchange of flight controls (who is flying the aircraft);
3. collision avoidance;
4. wake turbulence and low level windshear avoidance;
5. CFIT;
6. ADM and risk management;
7. checklist usage;
8. spatial disorientation;
9. TFR;

10. SRM and CRM;
11. Wire strike avoidance;
12. SUA;
13. aviation security; and
14. other areas deemed appropriate to any phase of the practical test or proficiency check.

The evaluator or authorized instructor shall place special emphasis on the applicant's demonstrated ability to teach precise aircraft control and sound judgment in aeronautical decision making/risk management. Evaluation of the applicant's ability to teach judgment shall be accomplished by asking the applicant to describe the presentation of practical problems that would be used in instructing learners in the exercise of sound judgment. The evaluator or authorized instructor shall also emphasize the evaluation of the applicant's demonstrated ability to teach the special emphasis areas.

Although these areas may not be specifically addressed under each TASK, they are essential to flight safety and will be evaluated during the practical test. In all instances, the applicant's actions will be evaluated inaccordance to the standards of the TASKs and the ability to use good judgment reference the special emphasis areas listed above.

Sport Pilot Flight Instructor Prerequisites—Initial

14 CFR part 61, sections 61.39 and 61.403 provides practical test and certification prerequisites.

Sport Pilot Flight Instructor Prerequisites—Additional Privileges

A certificated flight instructor seeking privileges to provide flight training in an additional category/class of light-sport aircraft must comply with 14 CFR part 61, section 61.419.

Flight Instructor Responsibility

An appropriately rated flight instructor is responsible for training the flight instructor applicant to acceptable standards in **ALL** subject matter areas, procedures, and maneuvers included in the TASKs within each AREA OF OPERATION in the appropriate category/class in this practical test standard. In addition, the rated flight instructor is requiredto prepare the flight instructor applicant in all TASKs in the AREAS OF OPERATION listed in Section 3.

Because of the impact of their teaching activities in developing safe, proficient pilots, flight instructors should exhibit a high level of knowledge, skill, and the ability to impart that knowledge and skill to learners. The flight instructor must certify that the applicant is:

1. able to make a practical application of the fundamentals of instructing;
2. competent to teach the subject matter, procedures, and maneuvers included in the standards to learners with varying backgrounds and levels of experience and ability;
3. able to perform the procedures and maneuvers included in the standards at a more precise level than that required at the sportpilot level; and
4. competent to pass the required practical test for the issuance of the Flight Instructor Certificate—Sport Pilot with the associated category/class privilege or the addition of a category/class privileges at the Flight Instructor Certificate.

Throughout the flight instructor applicant's training, the flight instructor is responsible for emphasizing the performance of and the ability to teach effective visual scanning, runway incursion avoidance, and collision avoidance procedures. The flight instructor applicant should develop and use scenario based teaching methods particularly on special emphasis areas. These areas are covered in AC 90-48,

Pilot's Role in Collision Avoidance; FAA-H-8083-3, Airplane Flying Handbook; FAA- H-8083-11, Balloon Flying Handbook; FAA-H-8083-13, Glider Flying Handbook; FAA-H-8083-21, Rotorcraft Flying Handbook; FAA- H-8083-23, Seaplane, Skiplane and Float/Ski Equipped Helicopter Handbook; FAA-H-8083-25, Pilot's Handbook of Aeronautical Knowledge; and the current Aeronautical Information Manual.

Evaluator Responsibility

The evaluator conducting the practical test or the authorized instructor conducting the proficiency check is responsible for determining that the applicant meets acceptable standards of teaching ability, knowledge, and skill in the selected TASKs. The evaluator or authorized instructor makes this determination when the applicant has successfully accomplished an Objective that is appropriate to each selected TASK, and includes an evaluation of the applicant's:

1. ability to apply the fundamentals of instructing;
2. knowledge of, and ability to teach, the subject matter, procedures, and maneuvers covered in the TASKs;
3. ability to perform the procedures and maneuvers included in the standards at a more precise level than that indicated in the sport pilot tolerances; and
4. ability to describe, recognize, analyze and correct common errors related to the skill procedures and maneuvers covered in the TASKs.

It is intended that oral questioning be used at any time during the ground or flight portion of the practical test or proficiency check to determine that the applicant can instruct effectively and has a comprehensive knowledge of the TASKs and their related safety factors.

During the flight portion of the practical test or proficiency check, the evaluator or authorized instructor shall act as a learner during selected maneuvers. This will give the evaluator or authorized instructor an opportunity to evaluate the flight instructor applicant's ability to analyze and correct simulated common errors related to these maneuvers. The evaluator or authorized instructor will place special emphasis on the applicant's use of visual scanning and collision avoidance procedures, and the applicant's ability to teach those procedures.

Evaluators and authorized instructors should to the greatest extent possible test the applicant's application and correlation skills. When possible scenario based questions should be used during the practical test or proficiency check.

If the evaluator or authorized instructor determines that a TASK is incomplete, or the outcome uncertain, the evaluator may require the applicant to repeat that TASK, or portions of that TASK. This provision has been made in the interest of fairness and does not mean that instruction, practice or the repeating of an unsatisfactory TASK is permitted during the certification process. When practical, the remaining TASKs of the practical test or proficiency phase should be completed before repeating the questionable TASK.

Initial Flight Instructor Certification Practical Test—Satisfactory Performance

An applicant who seeks initial flight instructor certification will be evaluated in all AREAS OF OPERATION of the standards appropriate to the category/class rating(s) sought. The evaluator shall refer to the evaluator's practical test checklist, for the appropriate category, located in this section, to determine the TASKs to be tested, in each AREA OF OPERATION. 14 CFR part 61, section 61.43(a), describes the satisfactory completion of the practical test for a certificate or rating.

Initial Flight Instructor Certification Practical Test—Unsatisfactory Performance

If, in the judgment of the evaluator, the applicant does not meet the standards of performance of any TASK performed, the applicable AREA OF OPERATION is considered unsatisfactory and therefore, the practical test or proficiency check is failed. 14 CFR part 61, section 61.43(c) – (f) provides additional unsatisfactory performance requirements and parameters. The evaluator or applicant may discontinue the test at any time when the failure of an AREA OF OPERATION makes the applicant ineligible for the certificate or rating sought. **The test will be continued only with the consent of the applicant.**

If the test is discontinued, the applicant is entitled credit for only those AREAS OF OPERATION and their associated TASKs satisfactorily performed. However, during the retest and at the discretion of the evaluator, any TASK may be re-evaluated, including those previously considered satisfactory.

Typical reasons for disqualification are:

1. failure to perform a procedure or maneuver at a more precise level than that indicated in the Sport Pilot tolerances while giving effective flight instruction;
2. failure to provide an effective instructional explanation while demonstrating a procedure or maneuver (explanation during the demonstration must be clear, concise, technically accurate, and complete with no prompting from the evaluator);
3. any action or lack of action by the applicant which requires corrective intervention by the evaluator to maintain safe flight; or
4. failure to use proper and effective visual scanning techniques to clear the area before and while performing maneuvers.

When a Disapproval Notice is issued, the evaluator shall record the applicant's unsatisfactory performance in terms of AREA(s) OF OPERATIONS and specific TASK(s) not meeting the standard appropriate to the practical test conducted. If the applicant fails the practical test because of a special emphasis area, the Notice of Disapproval shall indicate the associated TASK. An example would be: AREA OF OPERATION III, Traffic Patterns, failure to teach proper collision avoidance procedures.

Proficiency Check—Satisfactory Performance When Adding an Additional Category/Class

The authorized instructor shall refer to the instructor's proficiency check checklist, for the appropriate category, located in this section, to determine the TASKs to be tested, in each AREA OF OPERATION. The proficiency check is passed if, in the judgment of the authorized instructor, the applicant demonstrates satisfactory performance with regard to the required tasks in the required Areas of Operation.

When an applicant is adding a category/class privileges to their Flight Instructor Certificate, the evaluating authorized instructor shall, upon successful completion of the proficiency check, endorse the applicant's logbook indicating that the applicant is qualified to instruct in an additional sport pilot category/class of aircraft. The authorized instructor shall forward FAA Form 8710-11, Airman Certificate and/or Rating Application to Civil Aviation Registry within 10 days or submit the application through IACRA.

Proficiency Check—Unsatisfactory Performance When Adding an Additional Category/Class

When the applicant's performance does not meet the standards in the PTS, the authorized instructor conducting the proficiency check shall annotate the unsatisfactory performance on the FAA Form 8710-11, Airman Certificate and/or Rating Application and forward it to Civil Aviation Registry within 10 days or submit the application through IACRA. A Notice of Disapproval will **NOT** be issued in this instance; rather, the applicant should be provided with a list of the AREAS OF OPERATION and the specific TASKs not meeting the standard, so that the applicant may receive additional training.

Typical reasons for disqualification are:

1. failure to perform a procedure or maneuver at a more precise level than that indicated in the sport pilot tolerances while givingeffective flight instruction;
2. failure to provide an effective instructional explanation while demonstrating a procedure or maneuver (explanation during thedemonstration must be clear, concise, technically accurate, and complete with no prompting from the authorized instructor);
3. any action or lack of action by the applicant which requires corrective intervention by the evaluator to maintain safe flight; or
4. failure to use proper and effective visual scanning techniques toclear the area before and while performing maneuvers.

When the applicant receives the additional training in the AREAS OF OPERATION and the specific TASK(s) found deficient during the proficiency check, the recommending instructor shall endorse the applicant's logbook indicating that the applicant has received additional instruction and has been found competent to pass the proficiency check. The applicant shall complete a FAA Form 8710-11, Airman Certificate and/or Rating Application, and the recommending instructor shall endorse the application. The authorized instructor, other than the one who provided the additional training, shall evaluate the applicant. When the applicant successfully accomplishes a complete proficiency check, the authorized instructor, shall forward the FAA Form 8710-11, Airman Certificate and/or Rating Application to Civil Aviation Registry within 10 days or submit the application through IACRA and endorse the applicant's logbook indicating the airman's additional privileges.

I. AREA OF OPERATION: FUNDAMENTALS OF INSTRUCTING

NOTE: The evaluator shall select TASK F and one other TASK.

A. TASK: THE LEARNING PROCESS

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of the learning process by describing:

1. Learning theory.
2. Characteristics of learning.
3. Principles of learning.
4. Levels of learning.
5. Learning physical skills.
6. Memory.
7. Transfer of learning.

B. TASK: HUMAN BEHAVIOR AND EFFECTIVE COMMUNICATION

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of the teaching process by describing:

1. Human behavior—

    a. control of human behavior.
    b. human needs.
    c. defense mechanisms.
    d. the flight instructor as a practical psychologist.

2. Effective communication—

    a. basic elements of communication.
    b. barriers of effective communication.
    c. developing communication skills.

C. TASK: THE TEACHING PROCESS

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of the teaching process by describing:

1. Preparation of a lesson for a ground or flight instructional period.
2. Presentation methods.
3. Application, by the learner, of the material or procedure presented.
4. Review and evaluation of learner performance.

D. TASK: TEACHING METHODS

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of teaching methods by describing:

1. Material organization.
2. The lecture method.
3. The cooperative or group learning method.
4. The guided discussion method.
5. The demonstration-performance method.
6. Computer-based training method.

E. TASK: CRITIQUE AND EVALUATION

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of critique and evaluation by explaining:

1. Critique—

    a. purpose and characteristics of an effective critique.
    b. methods and ground rules for a critique.

2. Evaluation—

    a. characteristics of effective oral questions and what types to avoid.
    b. responses to learner questions.
    c. characteristics and development of effective written questions.
    d. characteristics and uses of performance test, specifically, the FAA practical test standards.

F. TASK: FLIGHT INSTRUCTOR CHARACTERISTICS AND RESPONSIBILITIES

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of flight instructor characteristics and responsibilities by describing:

1. Aviation instructor responsibilities in—

    a. providing adequate instruction.
    b. establishing standards of performance.
    c. emphasizing the positive.
    d. developing plans of action for use during proficiency checks.
    e. completion of FAA Form 8710-11.

2. Flight instructor responsibilities in—

    a. providing learner pilot evaluation and supervision.
    b. Preparing practical test recommendations and endorsements.
    c. determining requirements for conducting additional training and endorsement requirements.
    d. conducting proficiency checks for additional category/class privileges.

3. Professionalism as an instructor by—

    a. explaining important personal characteristics.
    b. describing methods to minimize learner frustration.

G. TASK: PLANNING INSTRUCTIONAL ACTIVITY

REFERENCE: FAA-H-8083-9.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of planning instructional activity by describing:

1. Developing objectives and standards for a course of training.
2. Theory of building blocks of learning.
3. Requirements for developing a training syllabus.
4. Purpose and characteristics of a lesson plan.

II. AREA OF OPERATION: TECHNICAL SUBJECT AREAS

NOTE: The evaluator shall select TASK D and at least one other TASK.

A. TASK: AEROMEDICAL FACTORS

REFERENCES: FAA-H-8083-3, FAA-H-8083-11; AIM.

Objective. To determine that the applicant exhibits instructional knowledge of the elements related to aeromedical factors by describing:

1. How to obtain an appropriate medical certificate.
2. How to obtain a medical certificate in the event of a possible medical deficiency.
3. The causes, symptoms, effects, and corrective action of the following medical factors—

    a. hypoxia.
    b. hyperventilation.
    c. middle ear and sinus problems.
    d. spatial disorientation.
    e. motion sickness.
    f. carbon monoxide poisoning.
    g. fatigue and stress.
    h. dehydration.
    i. hypothermia.

4. The effects of alcohol and drugs, and their relationship to flight safety.

B. TASK: VISUAL SCANNING AND COLLISION AVOIDANCE

REFERENCES: FAA-H-8083-25, AC 90-48; FAA-H-8083-3; AIM.

Objective. To determine that the applicant exhibits instructional knowledge of the elements of visual scanning and collision avoidance bydescribing:

1. Relationship between a pilot’s physical condition and vision.
2. Environmental conditions that degrade vision.
3. Vestibular and visual illusions.
4. “See and avoid” concept.
5. Proper visual scanning procedure.
6. Relationship between poor visual scanning habits and increased collision risk.
7. Proper clearing procedures.
8. Importance of knowing aircraft blind spots.
9. Relationship between aircraft speed differential and collision risk.
10. Situations that involve the greatest collision risk.

C. TASK: FEDERAL AVIATION REGULATIONS AND PUBLICATIONS

REFERENCES: 14 CFR parts 1, 61, 91; 49 CFR part 830; FAA-H-8083-25; Aircraft Flight Manual/POH; AIM.

Objective. To determine that the applicant exhibits instructional knowledge of the elements related to Federal Aviation Regulations and publications:

1. Availability and method of revision of 14 CFR parts 1, 61, 91, and 49 CFR part 830 by describing—

    a. purpose.
    b. general content.

2. Availability of flight information publications, advisory circulars, practical test standards, pilot operating handbooks, and FAA- approved airship/balloon flight manuals by describing—

    a. availability.
    b. purpose.
    c. general content.

D. TASK: LOGBOOK ENTRIES AND CERTIFICATE ENDORSEMENTS

REFERENCES: 14 CFR part 61; AC 61-65.

Objective. To determine that the applicant exhibits instructional knowledge of the elements related to logbook entries and certificate endorsements by describing:

1. Required logbook entries for instruction given.
2. Required student pilot certificate endorsements, including appropriate logbook entries.
3. Preparation of a recommendation for a pilot practical test/proficiency check, including appropriate logbook entry for—

    a. initial pilot certification.
    b. additional pilot certification.
    c. additional aircraft category/class privileges.
    d. make and model privileges.
    e. single-seat aircraft.

4. Required endorsement of a pilot logbook for the satisfactory completion of the required FAA flight review.
5. Required flight instructor records.

III. AREA OF OPERATION: PREFLIGHT LESSON ON A MANEUVERTO BE PERFORMED IN FLIGHT

NOTE: Evaluator shall select at least one maneuver TASK, and ask the applicant to present a preflight lesson on the selected maneuver, as thelesson would be taught to a learner.

A. TASK: MANEUVER LESSON

REFERENCES: FAA-H-8082-3, FAA-H-8083-9, FAA-H-8083-11, FAA-H-8083-25; Airship/Balloon Flight Manual/POH; Balloon Digest; How to Fly A Balloon.

Objective. To determine that the applicant exhibits instructional knowledge of the selected maneuver by:

1. Stating the purpose.
2. Giving an accurate, comprehensive oral description, including the elements and common errors.
3. Using instructional aids, as appropriate.
4. Describing the recognition, analysis, and correction of common errors.

NOTE: Refer to the appropriate checklist for the additional items that must be tested in section 1 or 2 of the PTS.