

Introduction

General Information

The FAA has developed the PTS for use by FAA inspectors and evaluators when conducting the practical test. Instructors should use this PTS when preparing applicants for practical tests. Applicants should be familiar with this PTS and refer to these standards during their training.

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

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

The Recreational Pilot—Practical Test Standards for Airplane Rotorcraft/Helicopter Rotorcraft/Gyroplane include the Areas of Operation and Tasks for the issuance of an initial Recreational Pilot Certificate and for the addition of category and/or class ratings to that certificate.

Areas of Operation are phases of the practical test arranged in a logical sequence within this standard. They begin with Preflight Preparation and end with Postflight Procedures. The evaluator may conduct the practical test in any sequence that will result in a complete and efficient test; **however, the ground portion of the practical test must 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 the Area of Operation or Task.

Reference identifies the publication(s) that describe(s) the Task. Descriptions of Tasks are not included in the standards because this information can be found in the current issue of the listed reference. Publications other than those listed may be used, for references if their content conveys substantially the same meaning as the referenced publications.

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 Areas; Air Traffic Service Routes; and Reporting Points
14 CFR part 91	General Operating and Flight Rules
AC 60-22	Aeronautical Decision-Making
AC 60-28	FAA English Language Standard for an FAA Certificate Issued Under 14 CFR Parts 61, 63, 65, and 107
AC 61-65	Certification: Pilots and Flight and Ground Instructors
AC 61-67	Stall and Spin Awareness Training
AC 61-98	Currency Requirements and Guidance 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 90-95	Unanticipated Right Yaw in Helicopters
AC 91-32	Safety In and Around Helicopters
AC 91-55	Reduction of Electrical System Failures Following Aircraft Engine Starting
AC 91-73	Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations
AC 120-51	Crew Resource Management Training
AFH	Airplane Flying Handbook
AIM	Aeronautical Information Manual
FAA-H-8083-1	Weight and Balance Handbook
FAA-H-8083-2	Risk Management Handbook
FAA-H-8083-3	Airplane Flying Handbook
FAA-H-8083-21	Helicopter Flying Handbook
FAA-H-8083-23	Seaplane, Skiplane and Float/Skid Equipped Helicopter Operations Handbook
FAA-H-8083-28	Aviation Weather Handbook
FAA-H-8083-25	Pilot's Handbook of Aeronautical Knowledge
HFM	Helicopter Flight Manual
NOTAM	Notice to Air Missions
49 CFR part 830	NTSB: Notification and Reporting of Aircraft Accidents or Incidents and Overdue Aircraft, and Preservation of Aircraft Wreckage, Mail, Cargo, and Records
POH/AFM	Pilot's Operating Handbook/FAA-Approved Flight Manual
RFM	Rotorcraft Flight Manual
GFM	Gyroplane Flight Manual
Other	Aeronautical Navigation Charts International-Inland Seaplane Supplement 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. the conditions under which the Task is to be performed;
3. the acceptable standards of performance; and
4. safety considerations, when applicable.

Abbreviations/Acronyms

14 CFR	Title 14 of the Code of Federal Regulations
AC	Advisory Circular
AD	Airworthiness Directive
ADM	Aeronautical Decision-Making
AELS	Aviation English Language Standard
AFM	Airplane Flight Manual
AGL	Above Ground Level
AIM	Aeronautical Information Manual
AKTR	Airman Knowledge Test Report
AMEL	Airplane Multiengine Land
AMES	Airplane Multiengine Sea
ASEL	Airplane Single Engine Land
ASES	Airplane Single Engine Sea
ASI	Aviation Safety Inspector
ASOS	Automated Surface Observing System
ATC	Air Traffic Control
AWOS	Automated Weather Observing System
CFIT	Controlled Flight Into Terrain
CG	Center of Gravity
CRM	Crew Resource Management
FAA	Federal Aviation Administration
FSO	Flight Standards Office
G	Gravity
GFA	Graphical Forecasts for Aviation
GFM	Gyroplane Flight Manual
ID	Identification
IMC	Instrument Meteorological Conditions
LAHSO	Land and Hold Short Operations
MEL	Minimum Equipment List
METAR	Aviation Routine Weather Report
NAS	National Airspace System
NOTAM	Notice to Air Missions
NTSB	National Transportation Safety Board
PDF	Portable Document Format
POH	Pilot Operating Handbook
PPCL	Powered Parachute Land
PPCS	Powered Parachute Sea
PTS	Practical Test Standards
RG	Rotorcraft—Gyroplane
RH	Rotorcraft—Helicopter
RFM	Rotorcraft Flight Manual
RPM	Revolutions Per Minute
SOP	Standard Operating Procedure

SRM	Single Pilot Resource Management
SUA	Special Use Airspace
TAF	Terminal Area Forecast
TCE	Training Center Evaluators
TFR	Temporary Flight Restrictions
U.S.	United States
USCG	United States Coast Guard
V_A	Velocity of Acceleration (Maneuvering Speed)
VFR	Visual Flight Rules
V_{so}	Velocity Stall Zero (Stalling Speed)
V_x	Best Angle of Climb Speed
V_y	Best Rate of Climb Speed
WSCL	Weight Shift Control Land
WSCS	Weight Shift Control Sea

Use of the PTS

The PTS has been designed to evaluate competency in both knowledge and skill.

The FAA requires that all practical tests be conducted in accordance with the appropriate PTS. Applicants must be evaluated in all Tasks included in the Areas of Operation of the appropriate practical test standard unless otherwise noted.

An applicant, who holds at least a Recreational Pilot Certificate seeking an additional category rating and/or class rating at the recreational pilot level will be evaluated in the Areas of Operation and Tasks listed in the Additional Rating Task Table. At the discretion of the evaluator, an evaluation of the applicant's competence in the remaining Areas of Operation and Tasks may be conducted.

If the applicant holds two or more category or class ratings at least at the recreational level, and the rating table indicates differing required Tasks, the "least restrictive" entry applies. For example, if "All" or "None" is indicated for one Area of Operation, the "None" entry applies. If "B" and "B, C" are indicated, the "B" entry applies.

In preparation for each practical test, the evaluator must develop a written "plan of action" for each practical test. The "plan of action" is a tool, for the sole use of the evaluator, to be used in evaluating the applicant. The plan of action need not be grammatically correct or in any formal format. The plan of action must contain all of the required Areas of Operations and Tasks and any optional Tasks selected by the evaluator. The "plan of action" must incorporate one or more scenarios that will be used during the practical test.

The evaluator should try to include as many of the Tasks into the scenario portion of the test as possible, but maintain the flexibility to change due to unexpected situations as they arise and still result in an efficient and valid test. **Any Task selected for evaluation during a practical test is to be evaluated in its entirety.**

The evaluator is not required to follow the precise order in which the Areas of Operations and Tasks appear in this PTS. The evaluator may change the sequence or combine Tasks with similar objectives to have an orderly and efficient flow of the practical test. For example, lost procedures may be combined with radio navigation. The evaluator's "plan of action" should 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 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. **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 must place special emphasis upon areas of aircraft operation 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. stall/spin awareness (airplane);
4. collision avoidance;
5. wake turbulence avoidance and low-level wind shear avoidance;
6. LAHSO;
7. runway incursion avoidance;
8. CFIT;
9. wire strike avoidance (rotorcraft);
10. ADM and risk management;
11. checklist usage;
12. TFRs;
13. SUA;
14. aviation security;
15. SRM; and
16. other areas deemed appropriate to any phase of the practical test.

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 relate to the complete situation.

PTS Test Prerequisites

14 CFR part 61, section 61.39 and subpart D, provide practical test and certification prerequisites.

Aircraft and Equipment Requirements

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

Evaluator Responsibility

An evaluator is:

- ASI;
- Pilot examiner (other than administrative pilot examiners);
- TCE; or
- Chief instructor, assistant chief instructor or check instructor of a pilot school holding examining authority.

The evaluator must determine that the applicant meets AELS. An applicant for an FAA certificate or rating must be able to communicate in English in a discernible and understandable manner with ATC, pilots, and others involved in preparing an aircraft for flight and operating an aircraft in flight. This communication may or may not involve radio communications. An applicant for an FAA certificate issued in accordance with 14 CFR part 61 who cannot hear or speak due to a medical deficiency may be eligible for an FAA certificate with specific operational limitations. For additional information, reference AC 60-28, FAA English Language Standard for an FAA Certificate Issued Under 14 CFR parts 61, 63, 65, and 107, as amended.

If the applicant's ability to meet the FAA AELS comes into question before starting the practical test, the evaluator will not begin the practical test. An evaluator who is not an ASI¹ will check the box, *Referred to FSO for Aviation English Language Standard Determination*, located on the bottom of page 2 of the applicant's FAA form 8710-1, Application for an Airman Certificate and/or Rating. The evaluator will refer the applicant to the appropriate FSO.

If the applicant's ability to meet the FAA AELS comes into question after the practical test begins, an evaluator who is not an ASI will discontinue the practical test and check the box, *Referred to FSO for Aviation English Language Standard Determination*, on the application. The evaluator will also issue an FAA Form 8060-5, Notice of Disapproval Application, with the comment "Does Not Demonstrate FAA AELS" in addition to any unsatisfactory Task(s).

In either case, the evaluator must complete and submit the application file through normal application procedures and notify the appropriate FSO of the referral.

The evaluator conducting the practical test is responsible for determining that the applicant meets the acceptable standards of knowledge and skill of each Task within the appropriate practical test standard. Since there is no formal division between the "oral" and "skill" portions of the practical test, this 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.

Evaluators must test to the greatest extent practicable the applicant's correlative abilities rather than mere rote enumeration of facts throughout the practical test.

If the evaluator 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.

Throughout the flight portion of the practical test, the evaluator must evaluate the applicant's use of visual scanning and collision avoidance procedures.

Flight Instructor Responsibility

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

¹ ASIs may assess an applicant's English language proficiency in accordance with FAA Order 8900.1.

EVALUATOR'S PRACTICAL TEST CHECKLIST

Airplane Single-Engine Land and Single-Engine Sea

APPLICANT'S NAME _____

LOCATION _____

DATE/TIME _____

I. PREFLIGHT PREPARATION

- A. CERTIFICATES AND DOCUMENTS (ASEL & ASES)
- B. AIRWORTHINESS REQUIREMENTS (ASEL & ASES)
- C. WEATHER INFORMATION (ASEL & ASES)
- D. NAS (ASEL & ASES)
- E. PERFORMANCE AND LIMITATIONS (ASEL & ASES)
- F. OPERATION OF SYSTEMS (ASEL & ASES)
- G. WATER AND SEAPLANE CHARACTERISTICS (ASES)
- H. SEAPLANE BASES, MARITIME RULES, AND AIDS TO MARINE NAVIGATION (ASES)
- I. AEROMEDICAL FACTORS (ASEL & ASES)

II. PREFLIGHT PROCEDURES

- A. PREFLIGHT INSPECTION (ASEL & ASES)
- B. FLIGHT DECK MANAGEMENT (ASEL & ASES)
- C. ENGINE STARTING (ASEL & ASES)
- D. TAXIING (ASEL)
- E. TAXIING AND SAILING (ASES)
- F. BEFORE TAKEOFF CHECK (ASEL & ASES)

III. AIRPORT AND SEAPLANE BASE OPERATIONS

- A. RADIO COMMUNICATIONS (ASEL & ASES)
- B. TRAFFIC PATTERNS (ASEL & ASES)
- C. AIRPORT/SEAPLANE BASE, RUNWAY, AND TAXIWAY SIGNS, MARKINGS, AND LIGHTING (ASEL & ASES)

IV. TAKEOFFS, LANDINGS, AND GO-AROUNDS

- A. NORMAL AND CROSSWIND TAKEOFF AND CLIMB (ASEL & ASES)
- B. NORMAL AND CROSSWIND APPROACH AND LANDING (ASEL & ASES)
- C. SOFT-FIELD TAKEOFF AND CLIMB (ASEL)
- D. SOFT-FIELD APPROACH AND LANDING (ASEL)
- E. SHORT-FIELD TAKEOFF AND MAXIMUM PERFORMANCE CLIMB (ASEL)
- F. SHORT-FIELD APPROACH AND LANDING (ASEL)
- G. CONFINED AREA TAKEOFF AND MAXIMUM PERFORMANCE CLIMB (ASES)
- H. CONFINED AREA APPROACH AND LANDING (ASES)
- I. GLASSY WATER TAKEOFF AND CLIMB (ASES)
- J. GLASSY WATER APPROACH AND LANDING (ASES)
- K. ROUGH WATER TAKEOFF AND CLIMB (ASES)
- L. ROUGH WATER APPROACH AND LANDING (ASES)

- M. FORWARD SLIP TO A LANDING (ASEL & ASES)
- N. GO-AROUND/REJECTED LANDING (ASEL & ASES)

V. PERFORMANCE MANEUVERS

- A. STEEP TURNS (ASEL & ASES)

VI. GROUND REFERENCE MANEUVERS

- A. RECTANGULAR COURSE (ASEL & ASES)
- B. S-TURNS (ASEL & ASES)
- C. TURNS AROUND A POINT (ASEL & ASES)

VII. NAVIGATION

- A. PILOTAGE (ASEL & ASES)
- B. DIVERSION (ASEL & ASES)
- C. LOST PROCEDURES (ASEL & ASES)

VIII. SLOW FLIGHT AND STALLS

- A. MANEUVERING DURING SLOW FLIGHT (ASEL & ASES)
- B. POWER-OFF STALLS (ASEL & ASES)
- C. POWER-ON STALLS (ASEL & ASES)
- D. SPIN AWARENESS (ASEL & ASES)

IX. EMERGENCY OPERATIONS

- A. EMERGENCY APPROACH AND LANDING (ASEL & ASES)
- B. SYSTEMS AND EQUIPMENT MALFUNCTIONS (ASEL & ASES)
- C. EMERGENCY EQUIPMENT AND SURVIVAL GEAR (ASEL & ASES)

X. POST-FLIGHT PROCEDURES

- A. AFTER LANDING, PARKING, AND SECURING (ASEL & ASES)
- B. ANCHORING (ASES)
- C. DOCKING AND MOORING (ASES)
- D. RAMPING/BEACHING (ASES)

ADDITIONAL RATINGS TASK TABLE

Addition of an ASEL Rating to an existing Recreational Pilot (or higher) Certificate												
Required TASKs are indicated by either the TASK letter(s) that apply(s) or an indication that all or none of the TASKs must be tested based on the notes in each AREA OF OPERATION.												
PILOT RATING(S) HELD												
AREAS OF OPERATION	ASES	AMEL	AMES	RH	RG	Glider	Balloon	Airship	PPCL	PPCS	WSCL	WSCS
I	E, F	E, F	E, F	E, F	E, F	E, F	E, F	E, F	E, F	E, F	E, F	E, F
II	D	NONE	D	A, C, D, F	A, C, D, F	A, B, C, D, F	A, B, C, D, F	A, B, C, D, F	A, B, C, D, F	A, B, C, D, F	A, B, C, D, F	A, B, C, D, F
III	C	NONE	C	B, C	B, C	B, C	B, C	B, C	B, C	B, C	B, C	B, C
IV	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N	A, B, C, D, E, F, M, N
V	NONE	NONE	NONE	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
VI	NONE	NONE	NONE	ALL	NONE	ALL	ALL	ALL	NONE E	NONE	NONE	NONE
VII	NONE	NONE	NONE	NONE	NONE	ALL	ALL	NONE	NONE E	NONE	NONE	NONE
VIII	NONE	NONE	NONE	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
IX	A, B	A, B	A, B	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
X	A	NONE	A	A	A	A	A	A	A	A	A	A

NOTE 1: This table is used by the evaluator in developing their plan of action for a practical test. The evaluator may test additional TASKs not listed in the table that they deem necessary to ensure the pilot can operate the aircraft safely in the NAS.

ADDITIONAL RATINGS TASK TABLE

Addition of an ASES Rating to an existing Recreational Pilot (or higher) Certificate												
Required TASKs are indicated by either the TASK letter(s) that apply(s) or an indication that all or none of the TASKs must be tested based on the notes in each AREA OF OPERATION.												
PILOT RATING(S) HELD												
AREAS OF OPERATION	ASEL	AMEL	AMES	RH	RG	Glider	Balloon	Airship	PPCL	PPCS	WSCL	WSCS
I	E, F, G, H	E, F, G, H	E, F	E, F, G, H	E, F, G, H	E, F, G, H	E, F, G, H	E, F, G, H	E, F, G, H	E, F, G, H	E, F, G, H	E, F, G, H
II	A, C, E, F	A, C, E, F	E	A, B, C, E, F	A, B, E, F	A, B, C, E, F	A, B, C, E, F	A, B, C, E, F	A, B, C, E, F	A, B, C, E, F	A, B, C, E, F	A, B, C, E, F
III	C	C	NONE	B, C	B, C	B, C	B, C	B, C	B, C	B	B, C	B
IV	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N	A, B, G, H, I, J, K, L, M, N
V	NONE	NONE	NONE	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
VI	NONE	NONE	NONE	ALL	NONE	ALL	ALL	ALL	NONE	NONE	NONE	NONE
VII	NONE	NONE	NONE	NONE	NONE	ALL	ALL	NONE	NONE	NONE	NONE	NONE
VIII	NONE	NONE	NONE	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
IX	ALL	ALL	A, B	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
X	B, C, D	B, C, D	NONE	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D

NOTE 1: This table is used by the evaluator in developing their plan of action for a practical test. The evaluator may test additional TASKs not listed in the table that they deem necessary to ensure the pilot can operate the aircraft safely in the NAS.

I. AREA OF OPERATION: PREFLIGHT PREPARATION

A. TASK: CERTIFICATES AND DOCUMENTS (ASEL AND ASES)

REFERENCES: 14 CFR parts 43, 61, 91; FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM.

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

1. Explaining—
 - a. recreational pilot certificate privileges, limitations, and recent flight experience requirements.
 - b. medical requirements/medical certificate class and duration.
 - c. pilot logbook or flight records.
2. Locating and explaining—
 - a. airworthiness and registration certificates.
 - b. operating limitations, placards, instrument markings, and POH/AFM.
 - c. weight and balance data and equipment list.

B. TASK: AIRWORTHINESS REQUIREMENTS (ASEL AND ASES)

REFERENCES: 14 CFR part 91; FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25.

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 the airplane with inoperative instruments and equipment with and without an MEL.
 - c. requirements and procedures for obtaining a special flight permit.
2. Locating and explaining—
 - a. airworthiness directives.
 - b. compliance records.
 - c. maintenance/inspection requirements.
 - d. appropriate record keeping.

C. TASK: WEATHER INFORMATION (ASEL AND ASES)

NOTE: The evaluator will use a variety of weather conditions to evaluate this TASK.

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

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to weather information by analyzing weather reports, surface analysis charts, and forecasts from aeronautical weather reporting sources.
 - a. METAR, TAF, and GFA.
 - b. surface analysis charts.
 - c. radar summary chart.
 - d. significant weather prognostic charts.
 - e. AWOS and ASOS reports.
2. Makes a competent "go/no-go" decision for the flight evaluation based on actual weather conditions.
3. Describes the importance of avoiding adverse weather and an inadvertent IMC encounter.
4. Explains courses of action to safety exit from an inadvertent IMC encounter.

D. TASK: NAS (ASEL AND ASES)

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

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

1. Recreational pilot privileges and limitations applicable to 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.

E. TASK: PERFORMANCE AND LIMITATIONS (ASEL AND ASES)

REFERENCES: FAA-H-8083-1, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM.

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 data to determine performance and the adverse effects of exceeding limitations.
2. Computes weight and balance. Determines the computed weight and center of gravity is within the airplane's operating limitations and if the weight and center of gravity will remain within limits during all phases of flight.
3. Demonstrates use of the appropriate performance charts, tables, and data.
4. Describes the effects of atmospheric conditions on the airplane's performance.

F. TASK: OPERATION OF SYSTEMS (ASEL AND ASES)

REFERENCES: FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM.

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

1. Primary flight controls and trim.
2. Flaps, leading edge devices, and spoilers.
3. Water rudders (ASES).
4. Powerplant and propeller.
5. Landing gear and brakes.
6. Fuel, oil, and hydraulic.
7. Electrical.
8. Avionics.
9. Pitot-static, vacuum/pressure, and associated flight instruments.
10. Environmental.
11. Deicing and anti-icing.

G. TASK: WATER AND SEAPLANE CHARACTERISTICS (ASES)

REFERENCE: FAA-H-8083-23.

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

1. The characteristics of a water surface as affected by features, such as:
 - a. size and location.
 - b. protected and unprotected areas.
 - c. surface wind.
 - d. direction and strength of water current.
 - e. floating and partially submerged debris.
 - f. sandbars, islands, and shoals.
 - g. vessel traffic and wakes.
 - h. other features peculiar to the area.
2. Float and hull construction, and their effect on seaplane performance.
3. Causes of porpoising and pilot action required to prevent or correct these occurrences.

H. TASK: SEAPLANE BASES, MARITIME RULES, AND AIDS TO MARINE NAVIGATION (ASES)

REFERENCES: FAA-H-8083-23; AIM.

Objective. To determine that the applicant exhibits knowledge of the elements related to seaplane bases, maritime rules, and aids to marine navigation by explaining:

1. How to locate and identify seaplane bases on charts or in directories.
2. Operating restrictions at various bases.
3. Right-of-way, steering, and sailing rules pertinent to seaplane operation.
4. Marine navigation aids such as buoys, beacons, lights, and sound signals.

I. TASK: AEROMEDICAL FACTORS (ASEL AND ASES)

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 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.
2. The effects of alcohol, drugs, and over-the-counter medication.
3. The effects of excess nitrogen during scuba dives upon a pilot or passenger in flight.

II. AREA OF OPERATION: PREFLIGHT PROCEDURES

A. TASK: PREFLIGHT INSPECTION (ASEL AND ASES)

REFERENCES: FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM.

Objective. To determine that the applicant:

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

B. TASK: FLIGHT DECK MANAGEMENT (ASEL AND ASES)

REFERENCES: FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to flight deck management procedures.
2. Ensures all loose items in the flight deck and cabin are secured.
3. Organizes material and equipment in an efficient manner so they are readily available.
4. Briefs the occupant on the use of safety belts, shoulder harnesses, doors, and emergency procedures.

C. TASK: ENGINE STARTING (ASEL AND ASES)

REFERENCES: FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; AC 91-55; POH/AFM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to recommended engine starting procedures including the use of an external power source, hand propping safety, and starting under various atmospheric conditions.
2. Positions the airplane properly considering structures, surface conditions, other aircraft, and the safety of nearby persons and property.
3. Utilizes the appropriate checklist for starting procedure.

D. TASK: TAXIING (ASEL)

REFERENCES: FAA-H-8083-3, FAA-H-8083-25; AC 91-73; POH/AFM.

Objective. To determine that the applicant:

1. Exhibits knowledge of the elements related to safe taxi procedures.
2. Performs a brake check immediately after the airplane begins moving.
3. Positions the flight controls properly for the existing wind conditions.
4. Controls direction and speed without excessive use of brakes.
5. Complies with airport/taxiway markings and signs.
6. Taxes so as to avoid other aircraft and hazards.

