



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

# **Instrument Rating – Helicopter Airman Certification Standards**

**November 2023**

Flight Standards Service  
Washington, DC 20591

## Foreword

The U.S. Department of Transportation, Federal Aviation Administration (FAA), Office of Safety Standards, Regulatory Support Division, Airman Testing Standards Branch, has published the Instrument Rating – Helicopter Airman Certification Standards (ACS) to communicate the aeronautical knowledge, risk management, and flight proficiency standards for the Instrument Rating - Helicopter.

This ACS is available for download, in PDF format, from [www.faa.gov](http://www.faa.gov).

Comments regarding this ACS may be emailed to [acsptsinquiries@faa.gov](mailto:acsptsinquiries@faa.gov).

Material in FAA-S-ACS-14 supersedes FAA-S-8081-4E, Instrument Rating Practical Test Standards for Helicopter, Changes 1, 2, 3, 4, & 5.

The FAA created FAA-G-ACS-2, Airman Certification Standards Companion Guide for Pilots, to provide guidance considered relevant and useful to the community. The number of appendices in the ACS was reduced and much of the non-regulatory material was moved to the Airman Certification Standards Companion Guide for Pilots. Applicants, instructors, and evaluators should consult this companion guide to familiarize themselves with ACS procedures. FAA-G-ACS-2 is available for download, in PDF format, from [www.faa.gov](http://www.faa.gov).

## Revision History

Document #	Description	Date
FAA-S-8081-4E	Instrument Rating Practical Test Standards for Airplane, Helicopter, and Powered Lift	January 2010
FAA-S-8081-4E	Instrument Rating Practical Test Standards for Airplane, Helicopter, and Powered Lift (with Changes 1, 2, 3, 4, & 5)	September 11, 2013
FAA-S-ACS-14	Instrument Rating - Helicopter Airman Certification Standards	November 2023

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# Introduction

## **Airman Certification Standards Concept**

The goal of the airman certification process is to ensure the applicant possesses the knowledge, ability to manage risks, and skill consistent with the privileges of the certificate or rating being exercised, in order to act as pilot-in-command (PIC).

Safe operations in today's National Airspace System (NAS) require the integration of aeronautical knowledge, risk management, and flight proficiency standards. To accomplish these goals, the FAA drew upon the expertise of organizations and individuals across the aviation and training community to develop the ACS. The ACS integrates the elements of knowledge, risk management, and skill required for each airman certificate or rating. It thus forms a more comprehensive standard for what an applicant must know, consider, and do to demonstrate proficiency to pass the tests required for issuance of the applicable airman certificate or rating.

## Area of Operation I. Preflight Preparation

### Task A. Pilot Qualifications

**References:** 14 CFR part 61; AC 68-1; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with requirements to act as pilot-in-command under instrument flight rules.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.I.A.K1 Certification requirements, recency of experience, and recordkeeping.
- IH.I.A.K2 Privileges and limitations.
- IH.I.A.K3 Part 68 BasicMed privileges and limitations.

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#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.I.A.R1 Proficiency versus currency.
- IH.I.A.R2 Personal minimums.
- IH.I.A.R3 Fitness for flight and physiological factors that might affect the pilot's ability to fly under instrument conditions.
- IH.I.A.R4 Flying unfamiliar helicopters or operating with unfamiliar flight display systems and avionics.

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**Skills:** The applicant exhibits the skill to:

- IH.I.A.S1 Apply requirements to act as pilot-in-command (PIC) under Instrument Flight Rules (IFR) in a scenario given by the evaluator.

### Task B. Weather Information

**References:** 14 CFR part 91; AC 91-92; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25, FAA-H-8083-28

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with obtaining, understanding, and applying weather information for a flight under IFR.

**Note:** If K2 is selected, the evaluator must assess the applicant's knowledge of at least three sub-elements.

**Note:** If K3 is selected, the evaluator must assess the applicant's knowledge of at least three sub-elements.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.I.B.K1 Sources of weather data (e.g., National Weather Service, Flight Service) for flight planning purposes.
- IH.I.B.K2 Acceptable weather products and resources required for preflight planning, current and forecast weather for departure, en route, and arrival phases of flight such as:
  - IH.I.B.K2a a. Airport Observations (METAR and SPECI) and Pilot Observations (PIREP)
  - IH.I.B.K2b b. Surface Analysis Chart, Ceiling and Visibility Chart (CVA)
  - IH.I.B.K2c c. Terminal Aerodrome Forecasts (TAF)
  - IH.I.B.K2d d. Graphical Forecasts for Aviation (GFA)

Area of Operation I. Preflight Preparation

- IH.I.B.K2e* e. Wind and Temperature Aloft Forecast (FB)
- IH.I.B.K2f* f. Convective Outlook (AC)
- IH.I.B.K2g* g. Inflight Aviation Weather Advisories including Airmen's Meteorological Information (AIRMET), Significant Meteorological Information (SIGMET), and Convective SIGMET
- IH.I.B.K3* Meteorology applicable to the departure, en route, alternate, and destination for flights conducted under Instrument Flight Rules (IFR) to include expected climate and hazardous conditions such as:
  - IH.I.B.K3a* a. Atmospheric composition and stability
  - IH.I.B.K3b* b. Wind (e.g., windshear, mountain wave, factors affecting wind, etc.)
  - IH.I.B.K3c* c. Temperature and heat exchange
  - IH.I.B.K3d* d. Moisture/precipitation
  - IH.I.B.K3e* e. Weather system formation, including air masses and fronts
  - IH.I.B.K3f* f. Clouds
  - IH.I.B.K3g* g. Turbulence
  - IH.I.B.K3h* h. Thunderstorms and microbursts
  - IH.I.B.K3i* i. Icing and freezing level information
  - IH.I.B.K3j* j. Fog/mist
  - IH.I.B.K3k* k. Frost
  - IH.I.B.K3l* l. Obstructions to visibility (e.g., smoke, haze, volcanic ash, etc.)
- IH.I.B.K4* Flight deck instrument displays of digital weather and aeronautical information.

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**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.I.B.R1* Making the go/no-go and continue/divert decisions, including:
  - IH.I.B.R1a* a. Circumstances that would make diversion prudent
  - IH.I.B.R1b* b. Personal weather minimums
  - IH.I.B.R1c* c. Hazardous weather conditions, including known or forecast icing or turbulence aloft
- IH.I.B.R2* Use and limitations of:
  - IH.I.B.R2a* a. Installed onboard weather equipment
  - IH.I.B.R2b* b. Aviation weather reports and forecasts
  - IH.I.B.R2c* c. Inflight weather resources

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**Skills:** The applicant exhibits the skill to:

- IH.I.B.S1* Use available aviation weather resources to obtain an adequate weather briefing.
- IH.I.B.S2* Analyze the implications of at least three of the conditions listed in K3a through K3l, using actual weather or weather conditions provided by the evaluator.
- IH.I.B.S3* Correlate weather information to make a go/no-go decision.



- IH.I.B.S4* Determine whether an alternate airport is required, and, if required, whether the selected alternate airport meets regulatory requirements.

### **Task C. Cross-Country Flight Planning**

**References:** 14 CFR part 91; AIM; Chart Supplements; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; IFR Enroute Charts; NOTAMs; IFR Navigation Charts

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with planning an IFR cross-country and filing an IFR flight plan.

**Note:** Preparation, presentation, and explanation of a computer-generated flight plan is an acceptable option.

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<b>Knowledge:</b>	The applicant demonstrates understanding of:
<i>IH.I.C.K1</i>	Route planning, including consideration of:
<i>IH.I.C.K1a</i>	a. Available navigational facilities
<i>IH.I.C.K1b</i>	b. Special use airspace
<i>IH.I.C.K1c</i>	c. Preferred routes
<i>IH.I.C.K1d</i>	d. Primary and alternate airports
<i>IH.I.C.K1e</i>	e. Enroute charts
<i>IH.I.C.K1f</i>	f. Chart Supplements
<i>IH.I.C.K1g</i>	g. NOTAMs
<i>IH.I.C.K1h</i>	h. Terminal Procedures Publications (TPP)
<i>IH.I.C.K2</i>	Altitude selection accounting for terrain and obstacles, IFR cruising altitudes, and effect of wind and oxygen requirements.
<i>IH.I.C.K3</i>	Calculating:
<i>IH.I.C.K3a</i>	a. Time, climb and descent rates, course, distance, heading, true airspeed, and groundspeed
<i>IH.I.C.K3b</i>	b. Estimated time of arrival, including conversion to universal coordinated time (UTC)
<i>IH.I.C.K3c</i>	c. Fuel requirements, including reserve
<i>IH.I.C.K4</i>	Elements of an IFR flight plan.
<i>IH.I.C.K5</i>	Procedures for activating and closing an IFR flight plan in controlled and uncontrolled airspace.

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### **Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.I.C.R1* Pilot.
- IH.I.C.R2* Helicopter.
- IH.I.C.R3* Environment (e.g., weather, icing, airports/heliports/helipads/landing areas, airspace, terrain, obstacles).
- IH.I.C.R4* External pressures.
- IH.I.C.R5* Limitations of air traffic control (ATC) services.

*Area of Operation I. Preflight Preparation*

*IH.I.C.R6* Limitations of electronic planning applications and programs.

*IH.I.C.R7* Fuel planning.

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**Skills:** The applicant exhibits the skill to:

*IH.I.C.S1* Prepare, present, and explain a cross-country flight plan assigned by the evaluator including a risk analysis based on real time weather, which includes calculating time en route and fuel considering factors such as power settings, operating altitude, wind, fuel reserve requirements, and weight and balance requirements.

*IH.I.C.S2* Recalculate fuel reserves based on a scenario provided by the evaluator.

*IH.I.C.S3* Create a navigation plan and simulate filing an IFR flight plan.

*IH.I.C.S4* Interpret departure, arrival, en route, and approach procedures with reference to appropriate and current charts.

*IH.I.C.S5* Recognize contamination due to rotor or airframe icing and demonstrate knowledge of the adverse effects of icing during pre-takeoff, takeoff, cruise, and landing phases of flight as well as the corrective actions.

*IH.I.C.S6* Apply pertinent information from appropriate and current aeronautical charts, Chart Supplements; Notices to Air Missions (NOTAMs) relative to airport, runway and taxiway closures; and other flight publications.

## Area of Operation II. Preflight Procedures

### Task A. Aircraft Systems Related to Instrument Flight Rules (IFR) Operations

**References:** 14 CFR part 91; AC 91-74; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with anti-icing or deicing systems, and other systems related to IFR flight.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.II.A.K1* The general operational characteristics and limitations of applicable anti-icing and deicing systems, including airframe, rotor, intake, fuel, and pitot-static systems.
- IH.II.A.K2* Flight control systems.

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#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.II.A.R1* Operations in icing conditions.
- IH.II.A.R2* Limitations of anti-icing and deicing systems.
- IH.II.A.R3* Use of automated systems in instrument conditions.

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**Skills:** The applicant exhibits the skill to:

- IH.II.A.S1* Demonstrate familiarity with anti-icing or deicing procedures or information published by the manufacturer specific to the helicopter used on the practical test.
- IH.II.A.S2* Demonstrate familiarity with the automatic flight control system (AFCS) procedures or information published by the manufacturer specific to the aircraft used on the practical test, if applicable.

### Task B. Helicopter Flight Instruments and Navigation Equipment

**References:** 14 CFR part 91; AC 90-100, AC 90-105, AC 90-107, AC 91-78, AC 91.21-1; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with managing instruments appropriate for an IFR flight.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.II.B.K1* Operation of the helicopter's applicable flight instrument system(s), including.
  - IH.II.B.K1a* a. Pitot-static instrument system and associated instruments
  - IH.II.B.K1b* b. Gyroscopic/electric instrument system and associated instruments
  - IH.II.B.K1c* c. Electrical systems, electronic flight instrument displays [primary flight display (PFD), multi-function display (MFD)], transponder and automatic dependent surveillance - broadcast (ADS-B)
  - IH.II.B.K1d* d. Magnetic compass
- IH.II.B.K2* Operation of the helicopter's applicable navigation system(s), including:
  - IH.II.B.K2a* a. Very high frequency (VHF) Omnidirectional Range (VOR), distance measuring equipment (DME), instrument landing system (ILS), marker beacon receiver/indicators

- IH.II.B.K2b b. Area navigation (RNAV), global positioning system (GPS), Wide Area Augmentation System (WAAS), flight management system (FMS), autopilot
- IH.II.B.K3 Use of an electronic flight bag (EFB), if used.

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**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.II.B.R1 Monitoring and management of automated systems.
- IH.II.B.R2 Difference between approved and non-approved navigation devices.
- IH.II.B.R3 Modes of flight and navigation instruments, including failure conditions.
- IH.II.B.R4 Use of an electronic flight bag.
- IH.II.B.R5 Use of navigation databases.

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**Skills:** The applicant exhibits the skill to:

- IH.II.B.S1 Operate and manage installed instruments and navigation equipment.
- IH.II.B.S2 Operate and manage an applicant supplied electronic flight bag (EFB), if used.

**Task C. Instrument Flight Deck Check**

**References:** 14 CFR part 91; AC 91.21-1; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with conducting a preflight check of the helicopter instruments necessary for an IFR flight.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.II.C.K1 Purpose of performing an instrument flight deck check and how to detect possible defects.
- IH.II.C.K2 IFR airworthiness, including helicopter inspection requirements and required equipment for IFR flight.
- IH.II.C.K3 Required procedures, documentation, and limitations of flying with inoperative equipment.

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**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.II.C.R1 Operating with inoperative equipment.
- IH.II.C.R2 Operating with outdated navigation publications or databases.

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**Skills:** The applicant exhibits the skill to:

- IH.II.C.S1 Perform preflight inspection by following the checklist appropriate to the helicopter and determine if the helicopter is in a condition for safe instrument flight.

## Area of Operation III. Air Traffic Control (ATC) Clearances and Procedures

### Task A. Compliance with Air Traffic Control Clearances

**References:** 14 CFR parts 91; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with ATC clearances and procedures while operating solely by reference to instruments.

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<b>Knowledge:</b>	The applicant demonstrates understanding of:
<i>IH.III.A.K1</i>	Elements and procedures related to ATC clearances and pilot/controller responsibilities for departure, en route, and arrival phases of flight, including clearance void times.
<i>IH.III.A.K2</i>	Pilot-in-Command (PIC) emergency authority.
<i>IH.III.A.K3</i>	Lost communication procedures and procedures for flights outside of radar environments.

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#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

<i>IH.III.A.R1</i>	Less than full understanding of an ATC clearance.
<i>IH.III.A.R2</i>	Inappropriate, incomplete, or incorrect ATC clearances.
<i>IH.III.A.R3</i>	ATC clearance inconsistent with helicopter performance or navigation capability.
<i>IH.III.A.R4</i>	ATC clearance intended for other aircraft with similar call signs.

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<b>Skills:</b>	The applicant exhibits the skill to:
<i>IH.III.A.S1</i>	Correctly copy, read back, interpret, and comply with simulated or actual ATC clearances in a timely manner using standard phraseology as provided in the Aeronautical Information Manual (AIM).
<i>IH.III.A.S2</i>	Correctly set communication frequencies, navigation systems (identifying when appropriate), and transponder codes in compliance with the ATC clearance.
<i>IH.III.A.S3</i>	Use the current and appropriate paper or electronic navigation publications.
<i>IH.III.A.S4</i>	Intercept all courses, radials, and bearings appropriate to the procedure, route, or clearance in a timely manner.
<i>IH.III.A.S5</i>	Maintain the applicable airspeed $\pm 10$ knots, headings $\pm 10^\circ$ , altitude $\pm 100$ feet; track a course, radial, or bearing within $\frac{3}{4}$ -scale deflection of the course deviation indicator (CDI).
<i>IH.III.A.S6</i>	Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.
<i>IH.III.A.S7</i>	Perform the appropriate checklist items relative to the phase of flight.

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### Task B. Holding Procedures

**References:** 14 CFR part 91; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with holding procedures solely by reference to instruments.

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**Knowledge:** The applicant demonstrates understanding of:

*IH.III.B.K1* Elements related to holding procedures, including reporting criteria, appropriate speeds, and recommended entry procedures for standard, nonstandard, published, and non-published holding patterns.

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**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.III.B.R1* Recalculating fuel reserves if assigned an unanticipated expected further clearance (EFC) time.
- IH.III.B.R2* Scenarios and circumstances that could result in minimum fuel or the need to declare an emergency.
- IH.III.B.R3* Scenarios that could lead to holding, including deteriorating weather at the planned destination.
- IH.III.B.R4* Holding entry and wind correction while holding.

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**Skills:** The applicant exhibits the skill to:

- IH.III.B.S1* Use an entry procedure appropriate for a standard, nonstandard, published, or non-published holding pattern.
- IH.III.B.S2* Change to the holding airspeed appropriate for the altitude when 3 minutes or less from, but prior to arriving at, the holding fix and set appropriate power as needed for fuel conservation.
- IH.III.B.S3* Recognize arrival at the holding fix and promptly initiate entry into the holding pattern.
- IH.III.B.S4* Maintain airspeed  $\pm 10$  knots, altitude  $\pm 100$  feet, selected headings within  $\pm 10^\circ$ , and track a selected course, radial, or bearing within  $\frac{3}{4}$ -scale deflection of the course deviation indicator (CDI).
- IH.III.B.S5* Comply with the holding pattern leg length and other restrictions, if applicable, associated with the holding pattern.
- IH.III.B.S6* Use proper wind correction procedures to maintain the desired pattern and to arrive over the fix as close as possible to a specified time.
- IH.III.B.S7* Use a multi-function display (MFD) and other graphical navigation displays, if installed, to monitor position in relation to the desired flightpath during holding.
- IH.III.B.S8* Comply with ATC reporting requirements and restrictions associated with the holding pattern.
- IH.III.B.S9* Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

## Area of Operation IV. Flight by Reference to Instruments

### Task A. Instrument Flight

**References:** FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with performing basic flight maneuvers solely by reference to instruments.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.IV.A.K1* Elements related to attitude instrument flying during straight-and-level flight, climbs, turns, and descents while conducting various instrument flight procedures.
- IH.IV.A.K2* Interpretation, operation, and limitations of pitch, bank, and power instruments.
- IH.IV.A.K3* Normal and abnormal instrument indications and operations.

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#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.IV.A.R1* Situations that can affect physiology and degrade instrument cross-check.
- IH.IV.A.R2* Spatial disorientation and optical illusions.
- IH.IV.A.R3* Flying unfamiliar helicopter or operating with unfamiliar flight display systems and avionics.

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**Skills:** The applicant exhibits the skill to:

- IH.IV.A.S1* Maintain altitude  $\pm 100$  feet during level flight, selected headings  $\pm 10^\circ$ , airspeed  $\pm 10$  knots, and bank angles  $\pm 5^\circ$  during turns.
- IH.IV.A.S2* Use proper instrument cross-check and interpretation, and apply the appropriate pitch, bank, power, and trim corrections when applicable.

### Task B. Recovery from Unusual Flight Attitudes

**References:** FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with recovering from unusual flight attitudes solely by reference to instruments.

**Note:** See Appendix 3: Aircraft, Equipment, and Operational Requirements & Limitations for information related to this Task.

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**Knowledge:** The applicant demonstrates understanding of:

- IH.IV.B.K1* Prevention of unusual attitudes, including flight causal, physiological, and environmental factors, and system and equipment failures.
- IH.IV.B.K2* Procedures for recovery from unusual attitudes in flight.
- IH.IV.B.K3* Procedures available to safely regain visual meteorological conditions (VMC) after flight into inadvertent instrument meteorological conditions or unintended instrument meteorological conditions (IIMC)/(UIMC).
- IH.IV.B.K4* Appropriate use of automation, if applicable.

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#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

Area of Operation IV. Flight by Reference to Instruments

- IH.IV.B.R1* Situations that could lead to loss of control in-flight (LOC-I) or unusual attitudes in-flight (e.g., stress, task saturation, inadequate instrument scan distractions, and spatial disorientation).
- IH.IV.B.R2* Assessment of the unusual attitude.
- IH.IV.B.R3* Control input errors inducing undesired aircraft attitudes, e.g. low G rotor.
- IH.IV.B.R4* Pilot responses that lead to mast bumping in a low G condition, if applicable.
- IH.IV.B.R5* Collision hazards.
- IH.IV.B.R6* Distractions, task prioritization, loss of situational awareness, or disorientation.
- IH.IV.B.R7* Interpreting flight instruments.
- IH.IV.B.R8* Control application solely by reference to instruments.
- IH.IV.B.R9* Operating envelope considerations.

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**Skills:** The applicant exhibits the skill to:

- IH.IV.B.S1* Use proper instrument cross-check and interpretation to identify an unusual attitude (including both nose-high and nose-low), and apply the appropriate pitch, bank, and power corrections, in the correct sequence, to return to a stabilized level flight attitude.
- IH.IV.B.S2* Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.



## Area of Operation V. Navigation Systems

### Task A. Intercepting and Tracking Navigational Systems and DME Arcs

**References:** 14 CFR part 91; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with intercepting and tracking navigation aids and arcs solely by reference to instruments.

**Note:** The evaluator should reference the manufacturer's equipment supplement(s) as necessary for appropriate limitations, procedures, etc.

**Note:** See Appendix 3: Aircraft, Equipment, and Operational Requirements & Limitations for information related to this Task.

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**Knowledge:** The applicant demonstrates understanding of:

*IH.V.A.K1* Ground-based navigation (orientation, course determination, equipment, tests, and regulations), including procedures for intercepting and tracking courses and arcs.

*IH.V.A.K2* Satellite-based navigation (orientation, course determination, equipment, tests, regulations, interference, appropriate use of databases, Receiver Autonomous Integrity Monitoring (RAIM), and Wide Area Augmentation System (WAAS)), including procedures for intercepting and tracking courses and arcs.

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#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

*IH.V.A.R1* Management of automated navigation and autoflight systems.

*IH.V.A.R2* Distractions, task prioritization, loss of situational awareness, or disorientation.

*IH.V.A.R3* Limitations of the navigation system in use.

---

**Skills:** The applicant exhibits the skill to:

*IH.V.A.S1* Tune and identify the navigation facility/program the navigation system and verify system accuracy as appropriate for the equipment installed in the helicopter.

*IH.V.A.S2* Determine aircraft position relative to the navigational facility or waypoint.

*IH.V.A.S3* Set and orient to the course to be intercepted.

*IH.V.A.S4* Intercept the specified course at appropriate angle, inbound to or outbound from a navigational facility or waypoint.

*IH.V.A.S5* Maintain airspeed  $\pm 10$  knots, altitude  $\pm 100$  feet, and selected headings  $\pm 5^\circ$ .

*IH.V.A.S6* Apply proper correction to maintain a course, allowing no more than  $\frac{3}{4}$ -scale deflection of the course deviation indicator (CDI). If a distance measuring equipment (DME) arc is selected, maintain that arc  $\pm 1$  nautical mile.

*IH.V.A.S7* Recognize navigational system or facility failure, and when required, report the failure to air traffic control (ATC).

*IH.V.A.S8* Use a multi-function display (MFD) and other graphical navigation displays, if installed, to monitor position, track wind drift, and to maintain situational awareness.

*IH.V.A.S9* At the discretion of the evaluator, use the autopilot to make appropriate course intercepts, if installed.

IH.V.A.S10 Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

**Task B. Departure, En Route, and Arrival Operations**

**References:** 14 CFR parts 91, 97; AC 90-100, AC 91-74; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with IFR departure, en route, and arrival operations solely by reference to instruments.

---

**Knowledge:** The applicant demonstrates understanding of:

IH.V.B.K1 Elements related to ATC routes, including departure procedures (DPs) and associated climb gradients; standard terminal arrival (STAR) procedures and associated constraints.

IH.V.B.K2 Pilot/controller responsibilities, communication procedures, and ATC services available to pilots.

---

**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

IH.V.B.R1 ATC communications and compliance with published procedures.

IH.V.B.R2 Limitations of traffic avoidance equipment.

IH.V.B.R3 Responsibility to use "see and avoid" techniques when possible.

---

**Skills:** The applicant exhibits the skill to:

IH.V.B.S1 Select, identify (as necessary) and use the appropriate communication and navigation facilities associated with the proposed flight.

IH.V.B.S2 Perform the appropriate checklist items relative to the phase of flight.

IH.V.B.S3 Use the current and appropriate paper or electronic navigation publications.

IH.V.B.S4 Establish two-way communications with the proper controlling agency, use proper phraseology, and comply in a timely manner with all ATC instructions and airspace restrictions.

IH.V.B.S5 Intercept all courses, radials, and bearings appropriate to the procedure, route, or clearance in a timely manner.

IH.V.B.S6 Comply with all applicable charted procedures.

IH.V.B.S7 Maintain airspeed  $\pm 10$  knots, altitude  $\pm 100$  feet, and selected headings  $\pm 10^\circ$ , and apply proper correction to maintain a course allowing no more than  $\frac{3}{4}$ -scale deflection of the course deviation indicator (CDI).

IH.V.B.S8 Update/interpret weather in flight.

IH.V.B.S9 Use displays of digital weather and aeronautical information, as applicable to maintain situational awareness.

IH.V.B.S10 Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

## Area of Operation VI. Instrument Approach Procedures

### Task A. Non-precision Approach

**References:** 14 CFR part 91; AC 120-108; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; Terminal Procedures Publications

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with performing non-precision approach procedures solely by reference to instruments.

**Note:** See Appendix 3: Aircraft, Equipment, and Operational Requirements & Limitations for information related to this Task.

---

**Knowledge:** The applicant demonstrates understanding of:

- IH.VI.A.K1* Procedures and limitations associated with a non-precision approach, including the differences between Localizer Performance (LP) and Lateral Navigation (LNAV) approach guidance.
- IH.VI.A.K2* Navigation system indications and annunciations expected during an area navigation (RNAV) approach.
- IH.VI.A.K3* Ground-based and satellite-based navigation systems used for a non-precision approach.
- IH.VI.A.K4* A stabilized approach, including energy management concepts.
- IH.VI.A.K5* Copter Point-in-Space (PinS) approaches.

---

#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.VI.A.R1* Deviating from the assigned approach procedure.
- IH.VI.A.R2* Selecting a navigation frequency.
- IH.VI.A.R3* Management of automated navigation and autoflight systems.
- IH.VI.A.R4* Helicopter configuration during an approach and missed approach.
- IH.VI.A.R5* An unstable approach, including excessive descent rates.
- IH.VI.A.R6* Deteriorating weather conditions on approach.
- IH.VI.A.R7* Operating below the minimum descent altitude (MDA) without proper visual references.

---

**Skills:** The applicant exhibits the skill to:

- IH.VI.A.S1* Accomplish the non-precision instrument approaches selected by the evaluator.
- IH.VI.A.S2* Establish two-way communications with air traffic control (ATC) appropriate for the phase of flight or approach segment, and use proper communication phraseology.
- IH.VI.A.S3* Select, tune, identify, and confirm the operational status of navigation equipment to be used for the approach.
- IH.VI.A.S4* Comply with all clearances issued by ATC or the evaluator.
- IH.VI.A.S5* Recognize if any flight instrumentation is inaccurate or inoperative, and take appropriate action.
- IH.VI.A.S6* Advise ATC or the evaluator if unable to comply with a clearance.
- IH.VI.A.S7* Complete the appropriate checklist(s).

- IH.VI.A.S8 Establish the appropriate helicopter configuration and airspeed considering meteorological and operating conditions.
- IH.VI.A.S9 Maintain altitude  $\pm 100$  feet, selected heading  $\pm 10^\circ$ , airspeed  $\pm 10$  knots, no more than  $\frac{3}{4}$  scale CDI deflection, and accurately track radials, courses, or bearings, prior to beginning the final approach segment.
- IH.VI.A.S10 Adjust the published MDA and visibility criteria for the aircraft approach category, as appropriate, for factors that include Notices of Air Missions (NOTAMs), inoperative aircraft or navigation equipment, or inoperative visual aids associated with the landing environment, etc.
- IH.VI.A.S11 Establish a stabilized descent to the appropriate altitude.
- IH.VI.A.S12 For the final approach segment, maintain no more than  $\frac{3}{4}$  scale CDI deflection, airspeed  $\pm 10$  knots, and altitude, if applicable, above MDA +100/-0 feet to the Visual Descent Point (VDP) or missed approach point (MAP).
- IH.VI.A.S13 Assess if the required visual references are available, and either initiate the missed approach procedure or continue for landing.
- IH.VI.A.S14 Use a multi-function display (MFD) and other graphical navigation displays, if installed, to monitor position, track wind drift, and to maintain situational awareness.
- IH.VI.A.S15 Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

### Task B. Precision Approach

**References:** 14 CFR part 91; AC 90-105, AC 90-107; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; Terminal Procedures Publications

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with performing precision approach procedures solely by reference to instruments.

**Note:** See Appendix 3: Aircraft, Equipment, and Operational Requirements & Limitations for information related to this Task.

---

**Knowledge:** The applicant demonstrates understanding of:

- IH.VI.B.K1 Procedures and limitations associated with a precision approach, including determining required descent rates and adjusting minimums in the case of inoperative equipment.
- IH.VI.B.K2 Navigation system displays, annunciations, and modes of operation.
- IH.VI.B.K3 Ground-based and satellite-based navigation systems (orientation, course determination, equipment, tests and regulations, interference, appropriate use of navigation data, signal integrity).
- IH.VI.B.K4 A stabilized approach, including energy management concepts.

---

### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.VI.B.R1 Deviating from the assigned approach procedure.
- IH.VI.B.R2 Selecting a navigation frequency.
- IH.VI.B.R3 Management of automated navigation and autoflight systems.
- IH.VI.B.R4 Helicopter configuration during an approach and missed approach.
- IH.VI.B.R5 An unstable approach, including excessive descent rates.

- IH.VI.B.R6 Deteriorating weather conditions on approach.
- IH.VI.B.R7 Continuing to descend below the Decision Altitude (DA)/Decision Height (DH) when the required visual references are not visible.

---

**Skills:** The applicant exhibits the skill to:

- IH.VI.B.S1 Accomplish the precision instrument approach(es) selected by the evaluator.
- IH.VI.B.S2 Establish two-way communications with air traffic control (ATC) appropriate for the phase of flight or approach segment, and use proper communication phraseology.
- IH.VI.B.S3 Select, tune, identify, and confirm the operational status of navigation equipment to be used for the approach.
- IH.VI.B.S4 Comply with all clearances issued by ATC or the evaluator.
- IH.VI.B.S5 Recognize if any flight instrumentation is inaccurate or inoperative, and take appropriate action.
- IH.VI.B.S6 Advise ATC or the evaluator if unable to comply with a clearance.
- IH.VI.B.S7 Complete the appropriate checklist(s).
- IH.VI.B.S8 Establish the appropriate helicopter configuration and airspeed considering meteorological and operating conditions.
- IH.VI.B.S9 Maintain altitude  $\pm 100$  feet, selected heading  $\pm 10^\circ$ , airspeed  $\pm 10$  knots, no more than  $\frac{3}{4}$  scale CDI deflection, and accurately track radials, courses, or bearings, prior to beginning the final approach segment.
- IH.VI.B.S10 Adjust the published DA/DH and visibility criteria for the aircraft approach category, as appropriate, to account for NOTAMs, inoperative helicopter or navigation equipment, or inoperative visual aids associated with the landing environment.
- IH.VI.B.S11 Establish a predetermined rate of descent at the point where vertical guidance begins, which approximates that required for the helicopter to follow the vertical guidance.
- IH.VI.B.S12 Maintain a stabilized final approach from the final approach fix (FAF) to DA/DH allowing no more than  $\frac{3}{4}$ -scale deflection of either the vertical or lateral guidance indications, and maintain the desired airspeed  $\pm 10$  knots.
- IH.VI.B.S13 Immediately initiate the missed approach procedure when at the DA/DH, and the required visual references for the runway are not unmistakably visible and identifiable.
- IH.VI.B.S14 Transition to a normal landing approach only when the helicopter is in a position from which a descent to a landing on the runway or suitable point not aligned with the final approach path can be made at a normal rate of descent using normal maneuvering.
- IH.VI.B.S15 Maintain a stabilized visual flight path from the DA/DH to the runway aiming point or descend visually to a suitable touchdown point not aligned with the instrument runway final course, as directed by the evaluator.
- IH.VI.B.S16 Use a multi-function display (MFD) and other graphical navigation displays, if installed, to monitor position, track wind drift, and to maintain situational awareness.
- IH.VI.B.S17 Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

### **Task C. Missed Approach**

**References:** 14 CFR parts 91, 97; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; Terminal Procedures Publications

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with performing a missed approach procedure solely by reference to instruments.

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**Knowledge:** The applicant demonstrates understanding of:

*IH.VI.C.K1* Elements related to missed approach procedures and limitations associated with standard instrument approaches, including while using a flight management system (FMS) or autopilot, if equipped.

---

**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

*IH.VI.C.R1* Deviations from prescribed procedures or ATC instructions.

*IH.VI.C.R2* Holding, diverting, or electing to fly the approach again.

*IH.VI.C.R3* Helicopter configuration during an approach and missed approach.

*IH.VI.C.R4* Factors that might lead to executing a missed approach procedure before the MAP or to a go-around below DA, DH, or MDA, as applicable.

*IH.VI.C.R5* Management of automated navigation and autoflight systems.

---

**Skills:** The applicant exhibits the skill to:

*IH.VI.C.S1* Promptly initiate the missed approach procedure and report it to ATC.

*IH.VI.C.S2* Apply the appropriate power setting and configure the helicopter to establish a positive rate of climb in accordance with the POH/RFM.

*IH.VI.C.S3* Comply with the published or alternate missed approach procedure.

*IH.VI.C.S4* Advise ATC or the evaluator if unable to comply with a clearance, restriction, or climb gradient.

*IH.VI.C.S5* Follow the recommended checklist items appropriate to the missed approach/go-around procedure.

*IH.VI.C.S6* Maintain the recommended airspeed  $\pm 10$  knots; heading, course, or bearing  $\pm 10^\circ$ ; and altitude(s)  $\pm 100$  feet during the missed approach procedure.

*IH.VI.C.S7* Use an MFD and other graphical navigation displays, if installed, to monitor position and track to help navigate the missed approach.

*IH.VI.C.S8* Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

*IH.VI.C.S9* Request ATC clearance to attempt another approach, proceed to the alternate airport, holding fix, or other clearance limit, as appropriate, or as directed by the evaluator.

### **Task D. Landing from an Instrument Approach**

**References:** 14 CFR parts 91; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with performing procedures for a landing from an instrument approach.

---

**Knowledge:** The applicant demonstrates understanding of:

*IH.VI.D.K1* Elements related to the pilot's responsibilities, and the environmental, operational, and meteorological factors that affect landing from a straight-in approach.

*IH.VI.D.K2* Airport signs, markings, and lighting, including approach lighting systems.

*IH.VI.D.K3* Appropriate landing profiles and aircraft configurations.

---

**Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

*IH.VI.D.R1* Attempting to land from an unstable approach.

*IH.VI.D.R2* Flying below the glidepath.

*IH.VI.D.R3* Transitioning from instrument to visual references for landing.

*IH.VI.D.R4* Aircraft configuration for landing.

---

**Skills:** The applicant exhibits the skill to:

*IH.VI.D.S1* Transition at the DA/DH, MDA, or visual descent point (VDP) to a visual flight condition, allowing for safe visual maneuvering and a normal landing.

*IH.VI.D.S2* Adhere to all ATC or evaluator advisories, such as NOTAMs, windshear, wake turbulence, runway surface, and other operational considerations.

*IH.VI.D.S3* Complete the appropriate checklist(s).

*IH.VI.D.S4* Maintain positive helicopter control throughout the landing maneuver.

*IH.VI.D.S5* Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

## Area of Operation VII. Emergency Operations

**Note:** Task B must be tested in addition to the other Tasks if the applicant supplies a multiengine helicopter.

### Task A. Loss of Communications

**References:** 14 CFR part 91; AIM; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-16, FAA-H-8083-21, FAA-H-8083-25

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with loss of communications while operating solely by reference to instruments.

---

**Knowledge:** The applicant demonstrates understanding of:

*IH.VII.A.K1* Procedures to follow in the event of lost communication during various phases of flight, including techniques for reestablishing communications, when it is acceptable to deviate from an instrument flight rules (IFR) clearance, and when to begin an approach at the destination.

---

#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

*IH.VII.A.R1* Possible reasons for loss of communication.

*IH.VII.A.R2* Deviation from procedures for lost communications.

---

**Skills:** The applicant exhibits the skill to:

*IH.VII.A.S1* Recognize a simulated loss of communication.

*IH.VII.A.S2* Simulate actions to re-establish communication.

*IH.VII.A.S3* Determine whether to continue to flight plan destination or deviate.

*IH.VII.A.S4* Determine appropriate time to begin an approach.

*IH.VII.A.S5* Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

### Task B. Instrument Approach and Landing with an Inoperative Engine (Simulated) (Multiengine Helicopter Only)

**References:** 14 CFR part 91; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25; POH/RFM; Terminal Procedures Publications

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with executing a published instrument approach solely by reference to instruments with one engine inoperative.

**Note:** See Appendix 2: Safety of Flight and Appendix 3: Aircraft, Equipment, and Operational Requirements & Limitations for information related to this Task.

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**Knowledge:** The applicant demonstrates understanding of:

*IH.VII.B.K1* Instrument approach procedures with one engine inoperative.

---

#### Risk

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

*IH.VII.B.R1* Potential engine failure during approach and landing.

*IH.VII.B.R2* Aircraft/powerplant limitations.



- IH.VII.B.R3 Distractions, task prioritization, loss of situational awareness, or disorientation.
- IH.VII.B.R4 Collision hazards.
- IH.VII.B.R5 Configuring the helicopter.
- IH.VII.B.R6 Performing a go-around/rejected landing with an engine failure.

---

**Skills:** The applicant exhibits the skill to:

- IH.VII.B.S1 Promptly recognize an engine failure and maintain positive helicopter control.
- IH.VII.B.S2 Use flight controls and configure the helicopter as required to maintain best performance or as recommended by the manufacturer.
- IH.VII.B.S3 Follow the manufacturer's recommended emergency procedures and complete the appropriate checklist.
- IH.VII.B.S4 Maintain control and fly the helicopter within the one engine inoperative (OEI) operating limitations.
- IH.VII.B.S5 Monitor the operating engine and helicopter systems and make adjustments as necessary.
- IH.VII.B.S6 Request and follow an actual or a simulated air traffic control (ATC) clearance for an instrument approach.
- IH.VII.B.S7 Maintain altitude  $\pm 100$  feet, airspeed  $\pm 10$  knots, and selected heading  $\pm 10^\circ$ .
- IH.VII.B.S8 Establish a rate of descent that ensures arrival at the minimum descent altitude (MDA) or decision altitude (DA)/decision height (DH) with the helicopter in a position from which a descent to the intended runway or other landing point can be made.
- IH.VII.B.S9 On final approach segment, maintain vertical (as applicable) and lateral guidance within  $\frac{3}{4}$ -scale deflection.
- IH.VII.B.S10 Execute a landing.
- IH.VII.B.S11 Complete the appropriate checklist(s).
- IH.VII.B.S12 Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

### **Task C. Approach with Loss of Primary Flight Instrument Indicators**

**References:** 14 CFR part 91; FAA-H-8083-2, FAA-H-8083-15, FAA-H-8083-21, FAA-H-8083-25; POH/RFM; Terminal Procedures Publications

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with performing an approach solely by reference to instruments with the loss of primary flight control instruments.

---

**Knowledge:** The applicant demonstrates understanding of:

- IH.VII.C.K1 Recognizing if primary flight instruments are inaccurate or inoperative, and advising ATC or the evaluator.
- IH.VII.C.K2 Possible failure modes of primary instruments and how to correct or minimize the effect of the loss.

---

#### **Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

- IH.VII.C.R1 Use of secondary flight displays when primary displays have failed.

*Area of Operation VII. Emergency Operations*

*IH.VII.C.R2* Maintaining helicopter control.

*IH.VII.C.R3* Distractions, task prioritization, loss of situational awareness, or disorientation.

---

**Skills:** The applicant exhibits the skill to:

*IH.VII.C.S1* Advise ATC or the evaluator if unable to comply with a clearance.

*IH.VII.C.S2* Complete a non-precision instrument approach without the use of the primary flight instruments using the skill elements of the non-precision approach Task (see Area of Operation VI, Task A).

*IH.VII.C.S3* Use single-pilot resource management (SRM) or crew resource management (CRM), as appropriate.

## Area of Operation VIII. Postflight Procedures

### Task A. Checking Instruments and Equipment

**References:** 14 CFR part 91; FAA-H-8083-2, FAA-H-8083-21, FAA-H-8083-25; POH/RFM

**Objective:** To determine the applicant exhibits satisfactory knowledge, risk management, and skills associated with checking flight instruments and equipment during postflight.

---

**Knowledge:** The applicant demonstrates understanding of:

*IH.VIII.A.K1* Procedures for documenting in-flight/postflight discrepancies.

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#### **Risk**

**Management:** The applicant is able to identify, assess, and mitigate risk associated with:

*IH.VIII.A.R1* Performance and documentation of postflight inspection and helicopter discrepancies.

---

**Skills:** The applicant exhibits the skill to:

*IH.VIII.A.S1* Conduct a postflight inspection and document discrepancies and servicing requirements, if any.

## Appendix 1: Practical Test Roles, Responsibilities, and Outcomes

### Eligibility Requirements for an Instrument Rating

The prerequisite requirements and general eligibility for a practical test and the specific requirements for the issuance of an Instrument Rating – Helicopter can be found in 14 CFR part 61, sections 61.39(a) and 61.65.

In accordance with 14 CFR part 61, sections 61.39, and 61.65(a)(7), the applicant must pass the airman knowledge test before taking the practical test, if applicable to the certificate or rating sought. Applicants who hold an instrument rating are not required to take an additional instrument knowledge test.

The knowledge test corresponding to this ACS appears in the table below.

Test Code	Test Name	Number of Questions	Age	Allotted Time	Passing Score
IRH	Instrument Rating Helicopter	60	15	2.5	70

### Use of the ACS During a Practical Test

The practical test is conducted in accordance with the ACS and FAA regulations that are current as of the date of the test.

The Areas of Operation in this ACS align with the Areas of Operation found in 14 CFR part 61, section 61.65(c). Each Area of Operation includes Tasks appropriate to that Area of Operation. Each Task contains an Objective stating what the applicant must know, consider, and/or do. The ACS then lists the aeronautical knowledge, risk management, and skill elements relevant to the specific Task, along with the conditions and standards for acceptable performance. The ACS uses Notes to emphasize special considerations.

During the ground and flight portion of the practical test, the FAA expects evaluators to assess the applicant's mastery of the topic in accordance with the level of learning most appropriate for the specified Task. The oral questioning will continue throughout the entire practical test. For some topics, the evaluator will ask the applicant to describe or explain. For other items, the evaluator will assess the applicant's understanding by providing a scenario that requires the applicant to appropriately apply and/or correlate knowledge, experience, and information to the circumstances of the given scenario. The flight portion of the practical test requires the applicant to demonstrate knowledge, risk management, flight proficiency, and operational skill in accordance with the ACS.

The elements within each Task in this ACS are coded according to a scheme that includes four components. For example, IH.I.C.K2:

IH = Applicable ACS

I = Area of Operation

C = Task

K2 = Task element (in this example, Knowledge 2)

There is no requirement for an evaluator to test every knowledge and risk management element in a Task; rather the evaluator has discretion to sample as needed to ensure the applicant's mastery of that Task. The required minimum elements to be tested from each applicable Task include:

- any elements in which the applicant was shown to be deficient on the knowledge test, as applicable;
- at least one knowledge element;
- at least one risk management element; and
- all skill elements unless otherwise noted.

The Airman Knowledge Test Report (AKTR) lists ACS codes that correlate to a specific Task element for a given Area of Operation for any incorrect responses on the knowledge test.

Knowledge and risk management elements are primarily evaluated during the knowledge testing phase of the airman certification process. The evaluator administering the practical test has the discretion to combine Tasks/elements as appropriate to testing scenarios.

Unless otherwise noted in the Task, the evaluator must test each item in the skills section by observing the applicant perform each one. As safety of flight conditions permit, the evaluator should use questions during flight to test knowledge and risk management elements not evident in the demonstrated skills. To the greatest extent practicable, evaluators should test the applicant's ability to apply and correlate information and use rote questions only when they are appropriate for the material being tested.

If the Task includes a knowledge or risk element with sub-elements, the evaluator may choose the primary element and select at least one sub-element to satisfy the requirement. Selection of the sub-element satisfies the requirement for one element unless otherwise noted.

For example, an evaluator who chooses IH.I.C.K3 may select a sub-element such as IH.I.C.K3a to satisfy the requirement to select one knowledge element.

The References for each Task indicate the source material for Task elements. For example, in the Task element "Acceptable weather products and resources required for preflight planning, current and forecast weather for departure, en route, and arrival phases of flight such as:" (IH.I.B.K2), the applicant should be prepared for questions on any weather product presented in the references for that Task.

The FAA encourages applicants and instructors to use the ACS when preparing for the airman knowledge tests and practical tests. Evaluators must conduct the practical test in accordance with the current ACS and FAA regulations pursuant to 14 CFR part 61, section 61.43. If an applicant is entitled to credit for Areas of Operation previously passed as indicated on a Notice of Disapproval of Application or Letter of Discontinuance, evaluators shall use the ACS currently in effect on the date of the test.

The ground portion of the practical test allows the evaluator to determine whether the applicant is sufficiently prepared to advance to the flight portion of the practical test. The applicant must pass the ground portion of the practical test before beginning the flight portion. The oral questioning will continue throughout the entire practical test.

### **Combined Private/Instrument Test**

Applicants for a combined Private Pilot Certificate with Instrument Rating, in accordance with 14 CFR part 61, section 61.65(a) and (g), must pass all areas designated in the Private Pilot for Rotorcraft Category Helicopter Rating ACS and the Instrument Rating – Helicopter ACS. Evaluators need not duplicate Tasks. For example, only one preflight demonstration would be required; however, the Preflight Task from the Instrument Rating – Helicopter ACS would be more extensive than the Preflight Task from the Private Pilot for Rotorcraft Category Helicopter Rating ACS to ensure readiness for Instrument Flight Rules (IFR) flight. Applicants for a combined test must present the applicable test reports.

A combined certificate and rating evaluation should be treated as one practical test, requiring only one application and resulting in only one temporary certificate, disapproval notice, or letter of discontinuance, as applicable. Failure of any Task will result in a failure of the entire test and application. Therefore, even if the deficient maneuver was instrument related and the performance of all visual flight rules (VFR) Tasks was determined to be satisfactory, the applicant will receive a notice of disapproval.

### **Instructor Responsibilities**

The instructor trains and qualifies the applicant to meet the established standards for knowledge, risk management, and skill elements in all Tasks appropriate to the certificate and rating sought. The instructor should use this ACS and its references when preparing the applicant to take the practical test and when retraining the applicant to proficiency in any subject(s) missed on the knowledge test.

### **Evaluator Responsibilities**

An evaluator includes the following:

- Aviation Safety Inspector (ASI);
- Pilot examiner (other than administrative pilot examiners);
- Training center evaluator (TCE);
- Chief instructor, assistant chief instructor, or check instructor of pilot school holding examining authority; or
- Instrument Flight Instructor (CFII) conducting an instrument proficiency check (IPC).

The evaluator who conducts the practical test verifies the applicant has met the aeronautical experience requirements

specified for a certificate or rating before administering the test. During the practical test, the evaluator determines whether the applicant meets the established standards of aeronautical knowledge, risk management, and skills for the Tasks in the appropriate ACS.

The evaluator must develop a plan of action (POA) that includes all required Areas of Operation and Tasks and administer each practical test in English. The POA must include scenario(s) that evaluate as many of the required Areas of Operation and Tasks as possible. As a scenario unfolds during the test, the evaluator will introduce problems and simulate emergencies that test the applicant's ability. The evaluator has the discretion to modify the POA to accommodate unexpected situations as they arise or suspend and later resume a scenario to assess certain Tasks.

Prior to and throughout the evaluation, the evaluator ensures the applicant meets the FAA Aviation English Language Standard (AELS). An applicant must be able to communicate in English in a discernible and understandable manner with air traffic control (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 or rating issued in accordance with 14 CFR parts 61, 63, 65, or 107 who cannot hear or speak due to a medical deficiency may be eligible for an FAA certificate with specific operational limitations.

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 other than an ASI 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, Airman Certificate and/or Rating Application, or FAA Form 8710-11, Airman Certificate and/or Rating Application - Sport Pilot, as applicable. The evaluator will refer the applicant to the appropriate Flight Standards Office (FSO).

If the applicant's ability to meet the FAA AELS comes into question after the practical test begins, an evaluator who other than 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 FAA Form 8060-5, Notice of Disapproval of Application, with the comment "Does Not Demonstrate FAA AELS" in addition to any unsatisfactory Task(s). The evaluator will refer the applicant to the appropriate FSO. ASIs conducting the practical test may assess an applicant's English language proficiency in accordance with FAA Order 8900.1.

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

If the ability of an FAA certificated airman comes into question prior to or during a required regulatory check (e.g., proficiency check) the evaluator other than an ASI will not continue the check or provide an endorsement indicating completion. The evaluator will refer the airman to the jurisdictional FAA field office for further determination of ability to meet the FAA AELS.

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.

### **Possible Outcomes of the Test**

A practical test has three possible outcomes: (1) Temporary Airman Certificate (satisfactory), (2) Notice of Disapproval of Application (unsatisfactory), or (3) Letter of Discontinuance.

If the evaluator determines that a Task is incomplete, or the outcome is uncertain, the evaluator must require the applicant to repeat that Task, or portions of that Task. This provision does not mean that instruction, practice, or the repetition of an unsatisfactory Task is permitted during the practical test.

### **Satisfactory Performance**

Refer to 14 CFR part 61, section 61.43, for satisfactory performance requirements.

Satisfactory performance will result in the issuance of a temporary certificate.

### **Unsatisfactory Performance**

If, in the judgment of the evaluator, the applicant does not meet the standards for any Task, the applicant fails the Task and associated Area of Operation and the evaluator issues a Notice of Disapproval of Application. The evaluator lists the Area(s) of Operation in which the applicant did not meet the standard, any Area(s) of Operation not tested, and the number of practical test failures. The evaluator should also list the Tasks failed or Tasks not tested within any unsatisfactory or partially completed Area(s) of Operation. 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 include:

- Any action or lack of action by the applicant that requires corrective intervention by the evaluator to maintain safe flight.
- Failure to use proper and effective visual scanning techniques to clear the area before and while performing maneuvers.
- Consistently exceeding tolerances stated in the skill elements of the Task.
- Failure to take prompt corrective action when tolerances are exceeded.
- Failure to exercise risk management.

The evaluator or the applicant may end the test if the applicant fails a Task. The evaluator may continue the test only with the consent of the applicant. The applicant receives credit only for those Areas of Operation and the associated Tasks performed satisfactorily.

### ***Letter of Discontinuance***

Refer to 14 CFR part 61, section 61.43(e)(2) for conditions to issue a letter of discontinuance.

If discontinuing a practical test for reasons other than unsatisfactory performance (e.g., equipment failure, weather, illness), the evaluator must return all test paperwork to the applicant. The evaluator must prepare, sign, and issue a Letter of Discontinuance that lists those Areas of Operation the applicant successfully completed and the time period remaining to complete the test to receive credit for previously completed Areas of Operation. The evaluator should advise the applicant to present the Letter of Discontinuance to the evaluator when the practical test resumes in order to receive credit for the items successfully completed. The Letter of Discontinuance becomes part of the applicant's certification file.

### ***Time Limit and Credit after a Discontinued Practical Test***

Refer to 14 CFR part 61, sections 61.39(f) and 61.43(f) after issuance of a Letter of Discontinuance or Notice of Disapproval of Application.

### ***Additional Rating Task Table***

For an applicant who holds an instrument rating in another category and seeks an additional Instrument Helicopter rating, the evaluator must evaluate that applicant in the Areas of Operation and Tasks listed in the Additional Rating Task Table. The evaluator may evaluate the applicant's competence in the remaining Areas of Operation and Tasks.

**Addition of a Helicopter Rating to an Existing Instrument Rating Certificate**

The table below indicates the required Tasks for each Area of Operation tested in accordance with this ACS.

**Additional Instrument Table**

Area of Operation	Instrument Rating – Airplane	Instrument Rating – Powered-Lift
I	None	None
II	A,C	A,C
III	None	None
IV	All	All
V	None	None
VI	All	All
VII	B,C	B,C
VIII	All	All

**Note:** In Area of Operation VII, Emergency Operations, Task B does not apply unless the applicant supplies a multiengine helicopter.



### Instrument Proficiency Check

14 CFR part 61, section 61.57(d) sets forth the requirements for an instrument proficiency check (IPC). Evaluators conducting an IPC must ensure the pilot meets the standards established in this ACS. As a minimum, the applicant must demonstrate the ability to perform the Tasks listed in the table below. The person giving the check should develop a scenario that incorporates as many required Tasks as practical to assess the pilot's aeronautical decision making (ADM) and risk management skills.

Required Area of Operation	Required Tasks
I	None
II	None
III	B
IV	B
V	A
VI	All
VII	B,C
VIII	All

**Note:** In Area of Operation VII, Emergency Operations, Task B does not apply unless the applicant supplies a multiengine helicopter.

An Advanced Aviation Training Device (AATD) can be utilized for the majority of the IPC as specified in the Letter of Authorization issued for the device. A Basic Aviation Training Device (BATD) cannot be used for any part of the IPC.

Refer to Advisory Circular (AC) [61-98, Currency Requirements and Guidance for the Flight Review and Instrument Proficiency Check](#), as amended for information on conducting an IPC.

## Appendix 2: Safety of Flight

### General

Safety of flight must be the prime consideration at all times. The evaluator, applicant, and crew must be continually alert for other traffic. If performing aspects of a given maneuver, such as emergency procedures, would jeopardize safety, the evaluator will ask the applicant to simulate that portion of the maneuver. The evaluator will assess the applicant's use of visual scanning and collision avoidance procedures throughout the entire test.

### Use of Checklists

Throughout the practical test, the applicant is evaluated on the use of an appropriate checklist.

Assessing proper checklist use depends upon the specific Task. In all cases, the evaluator should determine whether the applicant demonstrates CRM, appropriately divides attention, and uses proper visual scanning. In some situations, reading the actual checklist may be impractical or unsafe. In such cases, the evaluator should assess the applicant's performance of published or recommended immediate action "memory" items along with their review of the appropriate checklist once conditions permit.

In a single-pilot aircraft, the applicant should demonstrate the crew resource management (CRM) principles described as single-pilot resource management (SRM). Proper use depends on the specific Task being evaluated. If the use of the checklist while accomplishing elements of an Objective would be either unsafe or impractical in a single-pilot operation, the applicant should review the checklist after accomplishing the elements.

### Positive Exchange of Flight Controls

A clear understanding of who has control of the aircraft must exist. Prior to flight, the pilots involved should conduct a briefing that includes reviewing the procedures for exchanging flight controls.

The FAA recommends a positive three-step process for exchanging flight controls between pilots:

- When one pilot seeks to have the other pilot take control of the aircraft, they will say, "You have the flight controls."
- The second pilot acknowledges immediately by saying, "I have the flight controls."
- The first pilot again says, "You have the flight controls," and visually confirms the exchange.

Pilots should follow this procedure during any exchange of flight controls, including any occurrence during the practical test. The FAA also recommends that both pilots use a visual check to verify that the exchange has occurred. Doubt as to who is flying the aircraft should not occur.

### Use of Distractions

Numerous studies indicate that many accidents have occurred when the pilot has been distracted during critical phases of flight. The evaluator should incorporate realistic distractions during the flight portion of the practical test to evaluate the pilot's situational awareness and ability to utilize proper control technique while dividing attention both inside and outside the flight deck.

### Aeronautical Decision-Making, Risk Management, Crew Resource Management, and Single-Pilot Resource Management

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 reference to the risk management elements of the given Task(s), and 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 standard operating procedures (SOP). SRM specifically refers to the management of all resources onboard the aircraft, as well as outside resources available to the single pilot.

### **Multi-Powerplant Considerations**

During the required preflight briefing for practical tests conducted in a multi-powerplant helicopter, the evaluator and applicant must discuss the methods for simulating powerplant(s) failure including

- Who will initiate the simulated powerplant(s) failure;
- The technique used to simulate the powerplant(s) failure; and
- Who will perform the power recovery procedure.

**Note:** *The number of powerplants does not affect FAA helicopter certificate privileges.*

## Appendix 3: Aircraft, Equipment, and Operational Requirements & Limitations

### Aircraft Requirements & Limitations

If the aircraft has inoperative equipment and can be operated in accordance with 14 CFR part 91, section 91.213, it must be determined if any inoperative instruments or equipment are required to complete the practical test. The inoperative equipment must not interfere with practical test requirements.

### Equipment Requirements & Limitations

The aircraft must meet the requirements as outlined in 14 CFR part 61, section 61.45.

To assist in management of the aircraft during the practical test, the applicant is expected to demonstrate automation management skills by utilizing installed, available, or airborne equipment such as autopilot, avionics and systems displays, and/or a flight management system (FMS). The evaluator is expected to test the applicant's knowledge of the systems that are available or installed and operative during both the ground and flight portions of the practical test. If the applicant has trained using a portable electronic flight bag (EFB) to display charts and data and wishes to use the EFB during the practical test, the applicant is expected to demonstrate appropriate knowledge, risk management, and skill appropriate to its use.

If the practical test involves maneuvering the aircraft solely by reference to instruments, the applicant is required by 14 CFR part 61, section 61.45(d)(2) to provide an appropriate view limiting device acceptable to the Administrator. The applicant and the evaluator should establish a procedure as to when and how this device should be donned and removed and brief this procedure before the flight. This device must prevent the applicant from having visual reference outside the aircraft, but it must not restrict the evaluator's ability to see and avoid other traffic. The use of the device does not apply to specific elements within a Task when there is a requirement for visual references.

### Use of Flight Simulation Training Devices (FSTD)

Applicants for a pilot certificate or rating can accomplish all or part of a practical test or proficiency check in an FSTD qualified under 14 CFR part 60, which includes full flight simulators (FFS) or flight training devices (FTD), only when conducted within an FAA-approved training program. Each operational rule part identifies additional requirements for the approval and use of FSTDs in an FAA-approved training program.

### Credit for Pilot Time in an FSTD

14 CFR part 61 and part 141 specify the minimum experience requirements for each certificate or rating sought. 14 CFR part 61 and the appendices to part 141 specify the maximum amount of FFS or FTD flight training time an applicant can apply toward those experience requirements.

### Use of Aviation Training Devices (ATD)

Applicants for a pilot certificate or rating cannot use an ATD to accomplish a practical test, a 14 CFR part 61, section 61.58 proficiency check, or the flight portion of a 14 CFR part 61, section 61.57 flight review. An ATD is defined in 14 CFR part 61, section 61.1.

The FAA's General Aviation and Commercial Division evaluates and approves ATDs as permitted under 14 CFR part 61, section 61.4(c) and FAA Order 8900.1. Each ATD is then issued an FAA letter of authorization (LOA) that is valid for 60 calendar months. The LOA for each ATD lists the pilot time credit allowances and associated limitations.

The Pilot Training and Certification Group public website provides [a list of the FAA-approved ATDs](#) and the associated manufacturer.

### Credit for Pilot Time in an ATD

14 CFR part 61 and part 141 specify the minimum experience requirements for each certificate or rating sought. 14 CFR part 61 and the appendices to part 141 specify the maximum amount of ATD flight training time an applicant can apply toward those experience requirements. The LOA for each FAA-approved ATD lists the pilot time credit allowances and the associated limitations.

Evaluators must request an applicant to provide a copy of the manufacturer's LOA when using ATD flight training time credit

to meet the minimum experience requirements for an airman pilot certificate, rating, or privilege.

## **Operational Requirements, Limitations, & Task Information**

### ***IV. Flight by Reference to Instruments***

#### ***Task B. Recovery from Unusual Flight Attitudes***

The evaluator shall conduct a preflight briefing with the applicant regarding initiation of and techniques for recovery from unusual flight attitudes. The briefing must address any hazards associated with the rotor system. Intervention by the evaluator to prevent the applicant from exceeding any helicopter operating limitations or from entering an unsafe flight condition shall be disqualifying and the Task is unsatisfactory.

### ***V. Navigation Systems***

#### ***Task A. Intercepting and Tracking Navigational Systems and DME Arcs***

The evaluator may not select DME arcs, unless charted and available (including use of RNAV substitution techniques, if appropriate).

### ***VI. Instrument Approach Procedures***

#### ***Use of Area Navigation (RNAV) or Required Navigation Performance (RNP) Navigation System***

For practical tests conducted in an aircraft equipped with an installed, instrument flight rules (IFR)-approved RNAV or required navigational performance (RNP) system, or in a flight simulation training device (FSTD) equipped to replicate an installed, IFR-approved RNAV or RNP system, the applicant must demonstrate approach proficiency using that system. The applicant may use a suitable RNAV system on conventional procedures and routes as described in the Aeronautical Information Manual (AIM) to accomplish ACS tasks on conventional approach procedures, as appropriate.

#### ***Vertical or Lateral Deviation Standard***

The standard is to allow no more than a  $\frac{3}{4}$  scale deflection of either the vertical or lateral deviation indications during the final approach. As markings on flight instruments vary, a  $\frac{3}{4}$  scale deflection of either vertical or lateral guidance is deemed to occur when it is displaced  $\frac{3}{4}$  of the distance that it may be deflected from the indication representing that the aircraft is on the correct flight path.

#### ***Task A. Non-precision Approach***

A non-precision approach is a standard instrument approach procedure to a published minimum descent altitude without approved vertical guidance. The applicant may use navigation systems that display advisory vertical guidance during non-precision approach operations, if available.

The evaluator must select and the applicant must accomplish at least two different non-precision approaches in simulated or actual instrument meteorological conditions:

- At least one procedure must include a course reversal maneuver (e.g., procedure turn, holding in lieu, or the course reversal from an initial approach fix on a Terminal Area Arrival).
- The applicant must accomplish at least one procedure from an initial approach fix without the use of autopilot and without the assistance of radar vectors. During this Task, flying without using the autopilot does not prevent use of the yaw damper and flight director.
- The applicant must fly one procedure with reference to backup or partial panel instrumentation or navigation display, depending on the aircraft's instrument avionics configuration, representing a realistic failure mode(s) for the equipment used.

The evaluator has discretion to have the applicant perform a landing or a missed approach at the completion of each approach.

*Task B. Precision Approach*

The applicant must accomplish a precision approach to the decision altitude (DA) using aircraft navigational equipment for centerline and vertical guidance in simulated or actual instrument meteorological conditions. A precision approach is a standard instrument approach procedure to a published decision altitude using provided approved vertical guidance.

The evaluator has discretion to have the applicant perform a landing or a missed approach at the completion of each approach.