

Air Trek North Check Ride Prep:

1. Complete W&B.
2. Verify Airplane Maintenance Logbook Inspections.
3. Verify Current Flight Review.

I. Preflight Preparation

Task	<i>F. Performance and Limitations</i>
References	FAA-H-8083-1, FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with operating an aircraft safely within the parameters of its performance capabilities and limitations.
Knowledge	The applicant demonstrates understanding of:
<i>CA.I.F.K1</i>	Elements related to performance and limitations by explaining the use of charts, tables, and data to determine performance.
<i>CA.I.F.K2</i>	Factors affecting performance, to include:
<i>CA.I.F.K2a</i>	a. Atmospheric conditions
<i>CA.I.F.K2b</i>	b. Pilot technique
<i>CA.I.F.K2c</i>	c. Aircraft condition
<i>CA.I.F.K2d</i>	d. Airport environment
<i>CA.I.F.K2e</i>	e. Loading
<i>CA.I.F.K2f</i>	f. Weight and balance
<i>CA.I.F.K3</i>	Aerodynamics.
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
<i>CA.I.F.R1</i>	Inaccurate use of appropriate manufacturer's performance charts, tables, and data.
<i>CA.I.F.R2</i>	Exceeding aircraft limitations.
<i>CA.I.F.R3</i>	Possible differences between actual aircraft performance and published aircraft performance data.
Skills	The applicant demonstrates the ability to:
<i>CA.I.F.S1</i>	Compute the weight and balance, correct out-of-center of gravity (CG) loading errors and determine if the weight and balance remains within limits during all phases of flight.
<i>CA.I.F.S2</i>	Demonstrate use of the appropriate aircraft manufacturer's approved performance charts, tables, and data.

Task	G. Operation of Systems
References	FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with the safe operation of systems on the airplane provided for the flight test.
Knowledge	The applicant demonstrates understanding of:
CA.I.G.K1	Aircraft systems, to include: Note: <i>If K1 is selected, the evaluator must assess the applicant's knowledge of at least three of the following sub-elements.</i>
CA.I.G.K1a	a. Primary flight controls and trim
CA.I.G.K1b	b. Secondary flight controls
CA.I.G.K1c	c. Powerplant and propeller
CA.I.G.K1d	d. Landing gear
CA.I.G.K1e	e. Fuel, oil, and hydraulic
CA.I.G.K1f	f. Electrical
CA.I.G.K1g	g. Avionics
CA.I.G.K1h	h. Pitot-static, vacuum/pressure and associated flight instruments
CA.I.G.K1i	i. Environmental
CA.I.G.K1j	j. Deicing and anti-icing
CA.I.G.K1k	k. Water rudders (ASES, AMES)
CA.I.G.K1l	l. Oxygen system
CA.I.G.K2	Indications of system abnormalities or failures.
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
CA.I.G.R1	Failure to identify system malfunctions or failures.
CA.I.G.R2	Improper handling of a system failure.
CA.I.G.R3	Failure to monitor and manage automated systems.
Skills	The applicant demonstrates the ability to:
CA.I.G.S1	Explain and operate the airplane's systems.
CA.I.G.S2	Properly use appropriate checklists.

Task	<i>I. Water and Seaplane Characteristics, Seaplane Bases, Maritime Rules, and Aids to Marine Navigation (ASES, AMES)</i>
References	FAA-H-8083-2, FAA-H-8083-23; AIM; USCG Navigation Rules, International-Inland; POH/AFM; Chart Supplements
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with water and seaplane characteristics, seaplane bases, maritime rules, and aids to marine navigation.
Knowledge	The applicant demonstrates understanding of:
<i>CA.I.I.K1</i>	Characteristics of a water surface as affected by features, such as:
<i>CA.I.I.K1a</i>	a. Size and location
<i>CA.I.I.K1b</i>	b. Protected and unprotected areas
<i>CA.I.I.K1c</i>	c. Surface wind
<i>CA.I.I.K1d</i>	d. Direction and strength of water current
<i>CA.I.I.K1e</i>	e. Floating and partially submerged debris
<i>CA.I.I.K1f</i>	f. Sandbars, islands, and shoals
<i>CA.I.I.K1g</i>	g. Vessel traffic and wakes
<i>CA.I.I.K1h</i>	h. Other characteristics specific to the area
<i>CA.I.I.K2</i>	Float and hull construction, and their effect on seaplane performance.
<i>CA.I.I.K3</i>	Causes of porpoising and skipping, and the pilot action required to prevent or correct these occurrences.
<i>CA.I.I.K4</i>	How to locate and identify seaplane bases on charts or in directories.
<i>CA.I.I.K5</i>	Operating restrictions at various bases.
<i>CA.I.I.K6</i>	Right-of-way, steering, and sailing rules pertinent to seaplane operation.
<i>CA.I.I.K7</i>	Marine navigation aids, such as buoys, beacons, lights, and sound signals.
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
<i>CA.I.I.R1</i>	Local conditions.
<i>CA.I.I.R2</i>	Impact of marine traffic.

Skills	The applicant demonstrates the ability to:
<i>CA.I.I.S1</i>	Assess the water surface characteristics for the proposed flight.
<i>CA.I.I.S2</i>	Identify restrictions at local seaplane bases.
<i>CA.I.I.S3</i>	Identify marine navigation aids.
<i>CA.I.I.S4</i>	Perform correct right-of-way, steering, and sailing operations.

Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
<i>CA.II.A.R1</i>	Pilot.
<i>CA.II.A.R2</i>	Aircraft.
<i>CA.II.A.R3</i>	Environment (e.g., weather, airports, airspace, terrain, obstacles).
<i>CA.II.A.R4</i>	External pressures.
<i>CA.II.A.R5</i>	Aviation security concerns.

Task	<i>E. Taxiing and Sailing (ASES, AMES)</i>
References	FAA-H-8083-2; FAA-H-8083-23, FAA-H-8083-25; POH/AFM; AC 91-73; Chart Supplements; AIM
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with safe taxiing and sailing operations, including runway incursion avoidance.
Knowledge	The applicant demonstrates understanding of:
<i>CA.II.E.K1</i>	Airport information resources including chart supplements, airport diagram, and appropriate references.
<i>CA.II.E.K2</i>	Taxi instructions/clearances, if applicable.
<i>CA.II.E.K3</i>	Airport markings, signs, and lights, if applicable.
<i>CA.II.E.K4</i>	Visual indicators for wind.
<i>CA.II.E.K5</i>	Aircraft lighting.
<i>CA.II.E.K6</i>	Procedures for:
<i>CA.II.E.K6a</i>	a. Appropriate flight deck activities during taxiing
<i>CA.II.E.K6b</i>	b. Safe taxi at towered and non-towered airports (land operation)
<i>CA.II.E.K6c</i>	c. Entering crossing runways (land operation)
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
<i>CA.II.E.R1</i>	Inappropriate activities and distractions.
<i>CA.II.E.R2</i>	Porpoising and skipping.
<i>CA.II.E.R3</i>	Low visibility taxi and sailing operations.
<i>CA.II.E.R4</i>	Other aircraft, vessels, and hazards.
Skills	The applicant demonstrates the ability to:
<i>CA.II.E.S1</i>	Complete the appropriate checklist.
<i>CA.II.E.S2</i>	Perform a brake check when an amphibious plane begins to move on land.
<i>CA.II.E.S3</i>	Position the flight controls, flaps, doors, water rudder, and power correctly for the existing wind, water and sailing conditions and to prevent and correct for porpoising and skipping so as to follow the desired course while sailing.
<i>CA.II.E.S4</i>	Use the appropriate idle, plow, or step taxi technique.
<i>CA.II.E.S5</i>	Exhibit procedures for steering, maneuvering, maintaining proper position and situational awareness.
<i>CA.II.E.S6</i>	Plan and follow the most favorable taxi or sailing course for current conditions.
<i>CA.II.E.S7</i>	Comply with seabase/airport/taxiway markings, signals, and signs.

Maneuvers ASES

1. Normal Take Off and Landings (use $V_y \pm 5$ Kts)
2. Normal Approach and Landings (Use $1.3V_{so} \pm 5$ kts)
3. Confined Area Take Off and Climb (V_x until over obstacle, then $V_y \pm 5$ kts)
4. Confined Area Approach and Landing (Use $1.3V_{so} \pm 5$ kts)
5. Glassy Water Take Off and Climb ($V_y \pm 5$ kts)
6. Glassy Water Approach and Landing (Stabilized approach ± 5 kts)
7. Rough Water Take Off and Climb ($V_y \pm 5$ kts)
8. Rough Water Approach and Landing (Use $1.3V_{so} \pm 5$ kts)
9. Emergency Descent (May start with engine fire)
 - a. What is the difference between V_{ne} and V_{fe} ?
10. 180deg Precision Emergency Approach and Landing (Best Glide Speed ± 5 kts)
11. Three Systems Malfunctions out of the below
 - a. Power Loss
 - b. Engine Roughness or Overheating
 - c. Carb Icing
 - d. Loss of Oil Pressure
 - e. Fuel Starvation
 - f. Electrical Malfunction
 - g. Vacuum Loss
 - h. Pitot/Static Malfunction
 - i. Landing Gear Malfunction
 - j. Inop Trim
 - k. Smoke, Engine Fire
12. At least one mooring function
 - a. Mooring, Docking, Anchoring, Ramping, Beaching
13. Taxi
 - a. Idle including confined area taxi
 - b. Plow
 - c. Sail
 - d. Step

XI. Postflight Procedures

Task	B. Seaplane Post-Landing Procedures (ASES, AMES)
References	FAA-H-8083-2, FAA-H-8083-23; POH/AFM
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with anchoring, docking, mooring, and ramping/beaching. <i>Note: The examiner must select at least one after-landing procedure (anchoring, docking and mooring, or ramping/beaching).</i>
Knowledge	The applicant demonstrates understanding of:
CA.XI.B.K1	Mooring.
CA.XI.B.K2	Docking.
CA.XI.B.K3	Anchoring.
CA.XI.B.K4	Ramping/beaching.
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
CA.XI.B.R1	Inappropriate activities and distractions.
CA.XI.B.R2	Confirmation or expectation bias as related to taxi instructions.
Skills	The applicant demonstrates the ability to:
CA.XI.B.S1	Select a suitable area for anchoring, considering seaplane movement, water depth, tide, wind, and weather changes.
CA.XI.B.S2	Approach the dock/mooring buoy or ramp/beach in the proper direction and at a safe speed, considering water depth, tide, current, and wind.
CA.XI.B.S3	If anchoring, use an adequate number of anchors and lines of sufficient strength and length to ensure the seaplane's security.
CA.XI.B.S4	Secure the seaplane in a manner that will protect it from the harmful effect of wind, waves, and changes in water level.