VI. Navigation

Task	B. Navigation Systems and Radar Services
	FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-6, FAA-H-8083-25; AIM
References	Note: The evaluator should reference the manufacturer's equipment supplement(s) as necessary.
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with navigation systems and radar services.
Knowledge	The applicant demonstrates understanding of:
PA.VI.B.K1	Ground-based navigation (orientation, course determination, equipment, tests, and regulations).
PA.VI.B.K2	Satellite-based navigation (e.g., equipment, regulations, database considerations, and limitations of satellite navigation).
PA.VI.B.K3	Radar assistance to VFR aircraft (e.g., operations, equipment, available services, traffic advisories).
PA.VI.B.K4	Transponder (Mode(s) A, C, and S).
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
PA.VI.B.R1	Failure to manage automated navigation and autoflight systems.
PA.VI.B.R2	Distractions, loss of situational awareness, or improper task management.
PA.VI.B.R3	Limitations of the navigation system in use.
PA.VI.B.R4	Loss of a navigation signal.
Skills	The applicant demonstrates the ability to:
PA.VI.B.S1	Use an airborne electronic navigation system.
PA.VI.B.S2	Determine the airplane's position using the navigation system.
PA.VI.B.S3	Intercept and track a given course, radial, or bearing, as appropriate.
PA.VI.B.S4	Recognize and describe the indication of station or waypoint passage, if appropriate.
PA.VI.B.S5	Recognize signal loss or interference and take appropriate action, if applicable.
PA.VI.B.S6	Use proper communication procedures when utilizing radar services.
PA.VI.B.S7	Maintain the appropriate altitude ±200 feet and heading ±15°.