

## VI. Navigation

<b>Task</b>	<b>B. Navigation Systems and Radar Services</b>
<b>References</b>	FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-6, FAA-H-8083-25; AIM <b>Note:</b> The evaluator should reference the manufacturer's equipment supplement(s) as necessary.
<b>Objective</b>	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with navigation systems and radar services.
<b>Knowledge</b>	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	<b>Transponder (Mode(s) A, C, and S).</b>
<b>Risk Management</b>	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.
<b>Skills</b>	The applicant demonstrates the ability to:
PA.VI.B.S1	<b>Use an airborne electronic navigation system.</b>
PA.VI.B.S2	<b>Determine the airplane's position using the navigation system.</b>
PA.VI.B.S3	<b>Intercept and track a given course, radial, or bearing, as appropriate.</b>
PA.VI.B.S4	<b>Recognize and describe the indication of station or waypoint passage, if appropriate.</b>
PA.VI.B.S5	<b>Recognize signal loss or interference and take appropriate action, if applicable.</b>
PA.VI.B.S6	<b>Use proper communication procedures when utilizing radar services.</b>
PA.VI.B.S7	<b>Maintain the appropriate altitude <math>\pm 200</math> feet and heading <math>\pm 15^\circ</math>.</b>