

V. Performance Maneuvers

Task	<i>Task A. Steep Turns</i>
References	FAA-H-8083-2, FAA-H-8083-3; POH/AFM
Objective	To determine that the applicant exhibits satisfactory knowledge, risk management, and skills associated with steep turns.
Knowledge	The applicant demonstrates understanding of:
<i>PA.V.A.K1</i>	1. Coordinated flight.
<i>PA.V.A.K2</i>	2. Attitude control at various airspeeds.
<i>PA.V.A.K3</i>	3. Maneuvering speed, including changes in weight.
<i>PA.V.A.K4</i>	4. Controlling rate and radius of turn.
<i>PA.V.A.K5</i>	5. Accelerated stalls.
<i>PA.V.A.K6</i>	6. Overbanking tendencies.
<i>PA.V.A.K7</i>	7. Use of trim in a turn.
<i>PA.V.A.K8</i>	8. Aerodynamics associated with steep turns.
<i>PA.V.A.K9</i>	9. Aerobatic requirements and limitations.
Risk Management	The applicant demonstrates the ability to identify, assess and mitigate risks, encompassing:
<i>PA.V.A.R1</i>	1. Failure to divide the attention between airplane control and orientation.
<i>PA.V.A.R2</i>	2. Task management.
<i>PA.V.A.R3</i>	3. Energy management.
<i>PA.V.A.R4</i>	4. Accelerated stalls.
<i>PA.V.A.R5</i>	5. Spins.
<i>PA.V.A.R6</i>	6. Failure to maintain situational awareness.
<i>PA.V.A.R7</i>	7. Collision avoidance, scanning, obstacle and wire strike avoidance.
<i>PA.V.A.R8</i>	8. Failure to maintain coordinated flight.
Skills	The applicant demonstrates the ability to:
<i>PA.V.A.S1</i>	1. Establish the manufacturer's recommended airspeed or if one is not stated, a safe airspeed not to exceed V_A .
<i>PA.V.A.S2</i>	2. Roll into a coordinated 360° steep turn with a 45° bank.
<i>PA.V.A.S3</i>	3. Perform the Task in the opposite direction, as specified by the evaluator.
<i>PA.V.A.S4</i>	4. Maintain the entry altitude ± 100 feet, airspeed ± 10 knots, bank $\pm 5^\circ$; and roll out on the entry heading, $\pm 10^\circ$ or as recommended by aircraft manufacturer to a safe maneuvering altitude.