

POWERED FLIGHT THREE

Advanced powered flight maneuvers

Syllabus # 8

Estimated time: 1.0 hour.

1. Preflight. Discuss previously completed syllabus flights as appropriate.
2. In flight. The orientation pilot will perform the following maneuvers at a minimum altitude of 2,500 feet AGL:
 - a. Perform climbing turns emphasizing collision avoidance.
 - b. Demonstrate slow flight (minimum controllable airspeed (MCA)).
 - c. Demonstrate straight ahead and turning stalls as appropriate, emphasizing stall recognition and recovery. All stalls are imminent stalls (first aerodynamic indication of an oncoming stall, which is usually the stall warning alarm). Back seat passengers are not allowed during stall demonstrations.
 - d. Demonstrate medium and steep bank turns as appropriate and discuss proper rudder coordination and control stick requirements to keep the nose up.
 - e. Explain load factor during turns.
 - f. Discuss steep spirals and spins. Emphasize the difference and the dangers of excessive load factors in steep spirals.
 - g. Demonstrate ground reference maneuvers used in search activities (parallel track, S-turns, expanding square).
3. Post flight. Answer questions pertaining to the flight and stress safety.

Refer to *Aerospace Dimensions* module 1: Introduction to Flight.

