



aero enterprises

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Unusual Attitude Recovery Syllabus

Lesson 1

Ground: Review of basic aerodynamics including minimum controllable airspeed, critical angle of attack, stall, spin phases, pro-spin forces and control inputs, anti-spin forces and control inputs. Aircraft familiarization including egress procedure and parachute usage.

- Flight:
1. Aileron/rudder ("Dutch roll") exercise
 2. Flight at minimum controllable airspeed
 3. Stalls: Power-off and power-on, accelerated, and secondary
 4. "Falling leaf" exercise
 5. Full control slips with stall
 6. Introduction to one-turn spins

Lesson 2

Ground: Review spin entry and recovery. Discuss steep spiral attributes, g forces, rolling g forces, inverted flight. Discuss power/push/roll recovery technique for potential speed-based scenarios.

- Flight:
1. Spin entry and recovery review
 2. Rolls and inverted flight
 3. Scenario-based spin entry:
 - a. Base-to-final turn (skidding)
 - b. Slipping flight and spins
 - c. Stretching the glide
 - d. Go-around/departure stall
 4. Steep spiral recovery
 5. Unusual attitudes and recovery at cruise and pattern speeds