



# aero enterprises

*realize your full potential as a pilot*

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## Basic Aerobatics Syllabus

### Lesson 1

**Ground:** Review of basic aerodynamics including minimum controllable airspeed, critical angle of attack, stall, and spin avoidance. Loop and aileron roll control inputs, sight pictures, common errors and recovery. 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, power-on, and accelerated
  4. “Falling Leaf” exercise
  5. Aileron rolls
  6. Loops

### Lesson 2

**Ground:** Review aileron rolls and loops. Introduce slow roll, 45° up- and down-lines and inverted control inputs, entry, sight pictures, errors and recovery, and exit. Review egress procedure and parachute usage.

- Flight:**
1. Review loops
  2. Review rolls
  3. Slow rolls
  4. Inverted flight
  5. 45° up- and down-lines

### Lesson 3

**Ground:** Review loops, slow rolls. Introduce Half Cuban eights control inputs, entry, sight pictures, common errors and recovery, and exit. Review egress procedure and parachute usage.

- Flight:**
1. Review loops
  2. Review slow rolls
  3. Review 45° up- and down-lines and inverted flight
  4. Half Cuban eights



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## Lesson 4

Ground: Review loops, slow rolls, half Cuban eights. Introduce one-turn spins. Review egress procedure and parachute usage.

- Flight:
1. Review loops
  2. Review slow rolls
  3. Review 45° up- and down-lines
  4. Review half Cuban eights
  5. One-turn spins

## Lesson 5

Ground: Review loops, slow rolls, half Cuban eights, one-turn spins, and introduce hammerhead turn control inputs, entry, sight pictures, common errors and recovery, exit. Review egress procedure and parachute usage.

- Flight:
1. Review loops
  2. Review slow rolls
  3. Review half Cuban eights
  4. Review one-turn spins
  5. Hammerhead turn

## Lesson 6

Ground: Review loops, slow rolls, half Cuban eights, one-turn spins, 45° up- and down-lines, one-turn spins, and hammerhead turn. Introduce 180° aerobatic turn. Discuss primary sequence. Review egress procedure and parachute usage.

- Flight:
1. Review prior figures (45° up- and down-lines, one-turn spin, slow rolls, loops, half Cuban eights, hammerhead turns)
  2. Introduce 180° aerobatic turn
  3. Join figures of primary sequence