

All Attitude Flight Safety

Phase 2

Introduction to Aerobatics/ Aerobic Recurrency Training

Division of



Mission:

Decrease the number of pilot error related accidents

Prerequisites:

All Attitude Flight Safety Phase 1

Skills acquired in Phase 2:

Enhanced stick and rudder coordination

Spin entry, recovery and prevention from aerobatic flight

Unusual attitude recovery from aerobatic flight

Correct and precise actions dealing with in-flight emergencies during aerobatic flight

Enhanced aircraft control at all corners of the flight envelope

Ability to perform an aerobatic sequence and achieve an IAC Smooth Award

Flight School:

Olmsted Aviation LLC

Location:

Santa Paula Airport (KSZP)

Aircraft used:

Pitts S-2A

Number of flight lessons:

Five

Flight time per lesson:

60 minutes

Ground instruction per lesson:

60 minutes

Phase 2 Lesson 1

Coordination exercise:

½ roll (inverted check)
inverted turns
inverted dutch rolls
upright sky writing of box and diamond

Unusual attitude recovery review

Upright competition style spin entry/ recovery:

1 turn spin left
1 turn spin right

Entry/ recovery from inverted aggravated spins:

spin left power on
spin right power on

Aerobic competition style rolls and ½ rolls:

left rolls at Va

Introduction to loops and ½ loops

Phase 2 Lesson 2

Coordination exercise:

½ aerobatic competition style roll (inverted check)
upright sky writing of box, diamond and circle
inverted sky writing of box

Upright competition style spin entry/ recovery:

1 turn spin left
1 turn spin right
1½ turn spin left
1½ turn spin right

Entry/ recovery from inverted aggravated spins:

spin left aileron right
spin right aileron left

Aerobatic competition style rolls and ½ rolls:

left rolls at minimum entry speed
left rolls at maximum entry speed

Loops, ½ loops and immelmans

Introduction to vertical and 45 degree lines

Phase 2 Lesson 3

Coordination exercise:

½ aerobatic competition style roll (inverted check)
inverted sky writing of box, diamond and circle
competition aerobatic style turns

Review of aerobatic competition style rolls and ½ rolls

Review of simulated flight control failure

Upright competition style spin entry/ recovery:

1½ turn spin left
1½ turn spin right
1¼ turn spin left
1¼ turn spin right

Entry/ recovery from inverted aggravated spins:

elevator back with in-spin rudder
flat spin

Introduction to hammerhead spin entry

Optional introduction to ½ cuban eights

Phase 2 Lesson 4

Coordination exercise:

constant bank, constant airspeed 360 degree turn (wind circle)

½ aerobatic competition style roll (inverted check)

diving left dutch rolls (aerobatic competition wing wags)

competition aerobatic style 270 degree turn

Review of aerobatic competition style rolls and ½ rolls

Review 1 turn upright competition style spin entry/ recovery

Entry/ recovery from inverted aggravated spins initiated with unusual attitudes:

vertical line lay-out spin entry

immelman spin entry

hammerhead spin entry

Simulated flight control failure during aerobatic figures

Introduction to an aerobatic sequence

Phase 2 Lesson 5

Coordination exercise:

constant bank, constant airspeed 360 degree turn (wind circle)

½ aerobatic competition style roll (inverted check)

diving left dutch rolls (aerobatic competition wing wags)

Review 1 turn upright competition style spin entry/ recovery

Review loops

Review aerobatic competition style 270 degree turns

Review of aerobatic competition style rolls

Aerobatic sequence for International Aerobatic Club Smooth Award

Optional tumble from vertical line