



SATC IP SPIN TRAINING PROGRAM DEVELOPMENT Rev 5.

Spin Instructor Training

Overview

Duration- 4:30 + Ground Training

- A. Ground Training
 - 1. Aerodynamics of High AOA, wing loading vs bank angle; Stalls & Spins
 - 2. Spin Avoidance & Prevention
 - 3. Spin Awareness
 - 4. Egress Training
 - 5. Proper Handling of Parachutes

- B. Flight Training
 - 1. Max Performance Maneuvers
 - a. max bank angle: 60 degrees
 - b. max pitch angles: +/- 30 degrees
 - c. max g loads: 3.5
 - 2. Spin Prevention
 - 3. Spin Entries & Recoveries
 - a. max 2 turns
 - 4. Recognition of Inadvertent Spin Situations
 - 5. Avoidance/Prevention of Inadvertent Spins
 - a. max 1/2 turn before recovery

Spin Instructor Training

Lesson One

Duration- 1:30

Airwork, Basic Spin Prevention

- A. Maximum Performance Maneuvers
 - 1. Steep Turns w/ 60 deg banks
 - 2. Chandelles w/ 45 deg banks; + 25 deg pitch
 - 3. Lazy Eights w/ 45 deg bank; +/- 25 deg pitch
 - 4. Spiral Dive (Steep Spiral) w/ 60 deg bank; - 20 deg pitch

- B. Stall and Spin Awareness
 - 1. High AOA Flight & Maneuvering bank angles vs stall speed
 - 2. Accelerated Stall Entries & Recoveries (45 deg bank) using Spin Prevention recovery technique (T-A-R-R)

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Lesson Two

Duration- 1:30

Basic Spin Training

- A. Spin Prevention
 - 1. Review Accelerated Stall Entries w/ Spin Prevention Recovery

- B. Intentional Spin Entries & Recoveries
 - 1. Power Off

- C. Introduction to Inadvertent Spin Situations
 - 1. "Under the bottom" & "Over the top"

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Lesson Three

Duration- 1:30

Inadvertent Spin Prevention Training

- A. Intentional Spin Entries
 - 1. Review Intentional Spin Entries & Recoveries

- B. Recognition & Prevention of Inadvertent Spins
 - 1. "Under the bottom" & "Over the top"
 - 2. High pitch angle, high bank angle, high power situations
 - 3. high pitch and bank, low power situations
 - 4. Low pitch, low power, high bank situations
 - 5. Low pitch, low bank, low power situations

- C. Recognition and Recovery Student Errors
 - 1. Inappropriate use of rudder
 - 2. Inappropriate use of pitch
 - 3. Common student coordination errors