



*Tango Whiskey*  
A V I A T I O N

**AEROBATIC  
EXPLORER**



# Aerobic Explorer

Course Syllabus

Flights in the Super Decathlon and or the Extra 300L

## ***Introduction -***

Experience an introduction to a world of freedom and excitement with aerobatic flight as you improve your pilot skills. Tango Whiskey's Aerobatic Explorer course will make you a safer and more aware pilot.

This one lesson course gives private pilots and higher a great opportunity to safely expand their flight envelope. Loops, added G forces, Rolls, Spins and more with you at the controls of the airplane in all 3 dimensions.

During your training you will also learn skills in handling a tailwheel aircraft. A tailwheel endorsement is NOT required for this course however we do offer a separate tailwheel endorsement course in our Super Decathlon and we can custom build a course that integrates it into your aerobatic training program.

Your aerobatic lesson is scheduled in 2.5 hour block. We typically fly about 1.0 hour depending on your stamina and what needs to be covered in the syllabus. The remainder of the time includes a thorough question and answer period, preflight briefing, and post flight briefing. We have found that this type of training is most productive for our clients.

For those that wish to continue and learn more aerobatics after this course, Tango Whiskey's Aerobatics I course content will provide the awesome next steps.

We look forward to introducing you to the wonderful world of aerobatics!

-Tango Whiskey Flight Team

## Lesson 1

### **Ground 1:**

Copy of your pilot license, medical, photo ID, and signed waiver then establish your goals for this course including physical and mental limitations of aerobatics. We will explore tailwheel characteristics (if you do not have an endorsement). Ground handling (taxi, normal takeoff and landing) including ground-loop avoidance. Review of our Super Decathlon checklists, airspeeds and flows as well as a constant speed prop review or brief.

- Regulations regarding aerobatic flight and parachutes. When do you need to wear a parachute, where can you perform aerobatics?
- Physiological factors including breathing techniques, G-load (what it feels like and what it's doing to your body), gray-out, red-out, confusion, dizziness, nausea including GLOC.
- Parachute operation, aircraft emergency egress
- Introduction to Loops (the foundation of all maneuvers)
- Aerodynamics of a stall spin including entry and recovery, power on/off/accelerated stalls and recovery, spin entry/exit, avoidance will be covered in first lesson.
- Rolls (ballistic, zero lift explanation)

### **Flight 1:**

- Slow Flight and Super D Handling
  - Stall Entry/Recovery (Power On/Off/Accelerated)
  - Chandelle and Lazy 8s (suggested for Private Pilots)
  - Spin Entry and Recovery
  - Introduction to Aileron Rolls (Ballistic - Zero lift/Zero G fundamentals)
  - Introduction to the Loop
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