# Maverick Aviation

# **Cessna 421A&B Recurrent Training**

Course MAS 421A-101R Syllabus

Cessna 421A&B Recurrent training provided (MAS 421A-101R) assumes that the student has a multi-engine rating with a minimum of 75 Hours of multi-engine time, 25 hours of Cessna 421A or B time, and has completed initial 421A or B training. The student must possess an instrument rating, a current medical, a high-altitude endorsement, and must have a current BFR.

# Day 1

#### Class Introduction

0.5 Hours

 Instructor & Student Introductions, Class description, expectations, and questions specific to the student's mission

#### **Introduction & Engines**

1.5 Hours

 Construction, Interior, Passenger Compartment, Ground Handling, Engines, Engine Operation & Instruments, Servicing, Turbocharger, Fuel System, Propeller

Limitations 0.5 Hours

- V-Speeds, Engine Operational Limitations, Markings, CG and Weight Limitations
- Indicators

#### **Fuel Systems**

1.0 Hours

· Description, Capacity, Operation, Usage, and Malfunctions

### **Environmental Systems**

1.0 Hours

Oxygen System Operation, Pressurization System Description & Operation, Controls

#### **Electrical System**

1.0 Hours

 Battery, Alternator, Power Distribution, Main Bus, Hot Bus, Avionics Bus, Operation, Protection Systems, Lighting, Electrical Anti-Ice

#### **Simulator - Normal Procedures**

2.0 Hours

 Using our flight simulator, the student will be taken through normal procedures associated with takeoff, cruise, and landing.

## Day 2

### **Anti-Ice / Deice Systems**

1.0 Hours

 Known Icing Requirements, System Components & Description, System Testing, Inspection, Limitations

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#### **Performance & Flight Planning**

1.5 Hours

 CG, CG Limits, Weight & Balance, Performance Charts, Range, Examples, Classroom Examples

# **Emergency Procedures**

2.0 Hours

 Safe Operation Envelope, Various Engine and System Failures, Feathering, Restarting, Electrical Failures, Pressurization Failures, Emergency Decent

#### **Simulator - Emergency Procedures**

3.5 Hours

• Simulator scenarios incorporating engine failures, electrical failures, pressurization failures, during takeoff, cruise, landing, Vmc Demonstration in VFR and IFR conditions

# Day 3

# Federal Aviation Regulations A review of new/updated FARs Single Engine Operations Detail discussion of single engine operation failures, Case Studies, Outcomes Emergency Procedures Review Specific Review of 421A&B emergency procedures and operation

• Specific Review of 42 (A&B emergency procedures and operation

Course Review 2.5 Hours

A review of all non-emergency elements of the 421A&B course

Final Exam 1.0 Hours

Written Exam

# Day 4

# Flight Review

8.0 Hours

 Optional In-Flight operational review using student supplied aircraft (an additional fee applies) Takeoff, Cruise Ops, & Landing