

RECURRENT TRAINING CENTER

PART 142 CIRRUS

AIRPLANE SINGLE ENGINE

INSTRUMENT RATING

Enrollment Prerequisites: To enroll in the RTC “Cirrus Airplane Single Engine Instrument Rating” Course, the applicant must:

1. Hold at least a Private Pilot Certificate with Single Engine Land Rating
2. Hold at least a Third Class medical.
3. Be able to read, speak, write and understand the English language.
4. Have passed the knowledge test for the Instrument Rating within the previous 24 months.
5. Logged, at a minimum, 48 hours of cross-country time as pilot in command, 8 hours of which must have been in an airplane.

Introduction: This training syllabus is designed for the pilot applicant to acquire the aeronautical knowledge and skills as defined in 14 CFR 61.65 and culminate in taking the Instrument Pilot Practical Test.

This course will include a minimum of 12 hours of ground instruction, 30 hours of instrument instruction in the Cirrus Level 6 Flight Training Device as authorized by 14 CFR 61.65(e)(1), 10 hours of instrument instruction in the customer provided Cirrus Aircraft, and 4 hours set aside for the Practical Test, oral and flight portions. The flight portion of the practical test will be divided between the FTD and the aircraft as authorized in Appendix 1 of the Instrument Practical Test Standards.

Objective: Through ground training, flight training in the Level 6 Flight Training Device, and flight training in the *Cirrus* aircraft, the student will gain the knowledge and develop the skills to safely operate as an Instrument Rated Pilot, and pass the Instrument Rating Practical Test at the completion of this course.

Completion Standards: Student must meet all curriculum objectives by satisfactorily completing all segments. The student will demonstrate to the RTC Training Center Evaluator the aeronautical knowledge, skills, and experience required by 14 CFR 61.65, and tasked by the Instrument Rating Practical Test.

Equipment Required:

1. *Cirrus* Level 6 Flight Training Device, FAA #TBD
2. Customer provided airworthy *Cirrus* SR20/22/22T which meets CFR 14 Part 91 Subpart E.

Course Outline:

Ground Lessons:

- Lesson G1: Standard Operating Procedures (1.0 hour)
- Lesson G2: Attitude Instrument Flying (1.0 hour)
- Lesson G3: Flight Instruments, Navigation Equipment (1.0 hour)
- Lesson G4: Aircraft Systems (1.0 hour)
- Lesson G5: Instrument Regulations, Weather, Navigation Charts and Information Sources (1.0 hour)
- Lesson G6: Terminal Charts, Approaches, Holding Patterns (1.0 hour)
- Lesson G7: Air Traffic Control, Cross Country Planning (1.0 hour)
- Lesson G8: VOR Approaches, LOC Approaches (1.0 hour)
- Lesson G9: GPS Approaches (1.0 hour)
- Lesson G10: ILS and LPV Approaches (1.0 hour)
- Lesson G11: Emergencies, Flight by Secondary Instruments (1.0 hour)
- Lesson G12: Instrument Aeronautical Knowledge Written Exam Review, Practical Test Preparation (1.0 hour)

FTD Lessons:

- Lesson F1: Cockpit Checks, SOPs (1.0 hour)
- Lesson F2: Attitude Instrument Flying (1.5 hours)
- Lesson F3: Attitude Instrument Flying/ Pattern 1 (1.5 hours)
- Lesson F4: Attitude Instrument Flying/ Pattern 2 (1.5 hours)
- Lesson F5: Attitude Instrument Flying/ Pattern 3 (1.5 hours)
- Lesson F6: Attitude Instrument Flying/ Pattern 4 (1.5 hours)
- Lesson F7: Holding Patterns and Procedures (1.5 hours)
- Lesson F8: **Stage Check 1** (1.5 hours)
- Lesson F9: Flight by Secondary Instruments (1.5 hours)
- Lesson F10: VOR Approaches (1.5 hours)
- Lesson F11: Missed Approach Procedures (1.5 hours)
- Lesson F12: VOR Approaches, LOC Approaches (1.5)
- Lesson F13: LOC Approaches (1.5 hours)
- Lesson F14: GPS Approaches (1.5 hours)
- Lesson F15: GPS Approaches, ILS Approaches (1.5 hours)
- Lesson F16: ILS Approaches (1.5 hours)
- Lesson F17: ILS, VOR, GPS Approaches (1.5 hours)
- Lesson F18: Emergencies (1.5 hours)
- Lesson F19: Cross Country (2.0 hours)
- Lesson F20: **Stage Check 2** (1.5 hours)

Aircraft Lessons:

- Lesson A1: Cockpit checks, Attitude Instrument Flying (1 hour)
- Lesson A2: Cockpit checks, Attitude Instrument Flying (1.5 hours)

Lesson A3: VOR, LOC, GPS Approaches, Holding Patterns and Procedures (1.5 hours)

Lesson A4: ILS Approaches, Circling Approaches (1.5 hours)

Lesson A5: Emergencies, Flight by Secondary Instruments, Unusual Attitude Recovery (1.5 hours)

Lesson A6: Cross Country IFR Flight (2.0 hours)

Lesson A7: Practical Test Preparation (1.0 hour)

Instrument Rating Practical Test:

Instrument Rating Practical Test (4.0 hours Oral, FTD, Aircraft)

#note: The course can be given under Part 61, but 20 hours would be required in the aircraft.