

CHEROKEE FLIGHT MULTI-ENGINE ADDON SYLLABUS

READINGS. Students should ensure they have read and fully understand the following materials. These are found at <https://www.cherokeeflight.com/multiresources/>

- I. BE-76 Duches Manuevers Checklist. It explains the procedures for each of the maneuvers that are required.
- II. FAA P-8740-66 FLYING LIGHT TWINS. This FAA guide provides the meat of what you need to know about light twins and the aerodynamics at work when you lose an engine, etc. **KNOW THIS!!!**
- III. BE-76 POH. Systems, systems and more systems. You'll need to know it. Don't go to a commercial checkride not knowing everything about your aircraft.

PLAN OF ATTACK FOR FLIGHT TRAINING

- I. FLIGHT 1.
 - a. Take off roll, engine cut.
 - b. Normal take off and climb.
 - i. Rotate at 71
 - ii. Climb at 85
 - iii. At 500 ft, 25 mp, 25 rpms
 - iv. Level off at 5,000
 - v. Clearing Turns
 - c. Slow Flight, gear down, full flaps. Target is 70 kts. Allowable tolerance is 50 ft. Change in heading. Recover to full flight.
 - d. Power off stall. Recover first sign of stall.
 - e. Power on stall. Recover first sign of stall.
 - f. Accelerated stall. Recover first sign of stall and note speed.
 - g. Go-around.
 - h. Normal pattern entry and landing. Repeat t/o and landing. (3+ times)
- II. FLIGHT 2.
 - a. Take off roll, engine cut.
 - b. Normal T/O
 - c. Loss of engine on climb out.
 - d. Climb to 5000
 - e. Clearing turns
 - f. Steep turns (50° turns, margin +/- 100 ft)
 - g. Slow Flight (margin +/- 50ft)
 - h. VMC Demo
 - i. Engine out on downwind, single engine landing

- j. Short Field Take off
- k. Short Field Landing

III. FLIGHT 3.

- a. Take off roll, engine out.
- b. Normal T/O
- c. Loss of Engine on climb out
- d. Climb to 5000
- e. Clearing Turns
- f. VMC Demo
- g. Steep Turns
- h. Engine out in flight (I/R). Secure and restart.
- i. Single Engine ILS approach.
- j. Short Field T/O and landing.

IV. FLIGHT 4.

- a. Short Field T/O.
- b. Loss of Engine on climb out.
- c. Climb to 5000
- d. Clearing turns
- e. Engine out – restart.
- f. Drag Demo
- g. Emergency decent.
- h. Single engine ILS and landing
- i. Pattern work with one engine operative

V. FLIGHT 5 - REVIEW