

Task: Fly from Boeing Field (Seattle) to Renton Field.

What you will learn/practice on this flight:

- Take-off from a specified runway and heading
- Enroute navigation by vectors
- Find an approach course to a runway
- Approach to landing
- Landing on a specified runway

What you need to already know:

- Location of Renton relative to Boeing Field
- Basic flight controls and their actions (yoke, rudder pedals, throttle, flaps)
- Use of “hat switch” to look out side windows of airplane
- Performance data (rotation speed, climb speed, approach speed)
- Basic instruments and their meaning (attitude indicator, heading indicator, altimeter, airspeed indicator, tachometer)

Set up of flight environment:

- Select a Cessna 172 from airplane menu
- Select KBFI (Boeing Field) from location menu.
- Select runway 13R
- Select conditions that are favorable (e.g. day and no clouds/rain/wind)

Flight procedure:

- Brakes off, full throttle
- Use rudder pedals to stay on runway center line. Note heading
- Rotate at suggested airspeed
- Climb at suggested airspeed maintaining runway heading
- Climb to 600' and turn left to a heading of 060
- Continue climb to 1200'
- Reduce power to 2100 RPM
- Proceed to the South end of Mercer Island
- “Peek” out the right window and fly given heading until nearly lined up with RNT
- Turn right to a heading of 160
- Fly towards RNT, aligning with runway using shallow turns
- When VASI turns one white & one red, reduce power to 1700 RPM and add 10° of flaps
- Adjust power (1300 RPM?) and trim to maintain airspeed of 80 kts and keep VASI on white/red
- Keep airplane aligned with runway
- Just before shoreline move flaps to 20°. Airspeed can be allowed to drop to 75 kts
- Just before runway move flaps to 30°. Airspeed can be allowed to drop to 65 kts
- Just above runway pull back on yoke to stop decent (flying level now)
- As speed drops and plane descends very close to runway pull back on yoke to flair. Stay aligned with runway using rudder pedals.
- After main gear touch down, let nose gear settle to runway.
- Celebrate!

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