

BEFORE STARTING ENGINE

1. PREFLIGHT INSPECTION.....COMPLETE
2. FUEL QUANTITY.....ADEQUATE
3. SEATS AND BELTS.....ADJUSTED & LOCKED
4. FUEL SHUTOFF VALVE.....ON
5. RADIOS & ELECTRICALS.....OFF
6. BRAKES.....TEST
7. CIRCUIT BREAKERS.....CHECK IN
8. PASSENGERS.....BRIEFED

STARTING ENGINE

1. MAGNETO KEY.....IN (MAGS OFF)
2. MIXTURE.....RICH
3. CARBURETOR HEAT.....COLD
4. MASTER SWITCH.....ON
5. BEACON.....ON
6. THROTTLE.....OPEN ½ INCH
7. PRIME.....AS REQUIRED & LOCKED
8. BRAKES.....SET
9. PROPELLER AREA.....CLEAR
10. IGNITION SWITCH.....START

AFTER START

1. OIL PRESSURE.....CHECK
2. RADIOS.....ON
3. TRANSPONDER.....ALT
4. FLAPS.....RETRACTED
5. MIXTURE.....LEANED FOR SMOOTH IDLE
6. TAXI PLAN.....PRIOR TO TAXI

BEFORE TAKEOFF

1. FLIGHT CONTROLS.....FREE & CORRECT
2. FLIGHT INSTRUMENTS.....SET
3. ELEVATOR TRIM.....TAKEOFF SETTING
4. FLAPS.....UP (or as required)
5. MIXTURE.....RICH
 6. THROTTLE.....1700 RPM
 7. MAGNETOS (125 MAX DROP).....CHECK
 8. CARBURETOR HEAT.....CHECK
 9. ENGINE INSTRUMENTS.....CHECK
 10. AMMETER.....CHECK
 11. SUCTION GAUGE.....CHECK
 12. CIRCUIT BREAKERS.....CHECK IN
 13. THROTTLE.....1,000 RPM
14. THROTTLE FRICTION LOCK.....ADJUSTED
15. RADIOS.....SET
16. TRANSPONDER.....ALT
17. CABIN DOORS.....CLOSED & LATCHED
18. LIGHTS.....AS REQUIRED
19. DEPARTURE TIME.....NOTED

NORMAL TAKEOFF

1. FLAPS.....RETRACTED
2. ROTATE.....50 KIAS
3. VENTS/CABIN AIR/HEAT.....CLOSED
3. CLIMB SPEED.....65 KIAS

SHORT FIELD TAKEOFF

1. FLAPS.....10 DEGREES
2. BRAKES..HOLD UNTIL FULL POWER DEVELOPED
3. ROTATE.....50 KIAS
4. INITIAL CLIMB.....54 KIAS
5. CLIMB AFTER OBSTACLE.....60 KIAS
6. FLAPS.....RETRACT
7. NORMAL CLIMB.....65 KIAS

SOFT FIELD TAKEOFF

1. FLAPS.....10 DEGREES
2. ELEVATOR.....AFT INITIALLY
3. ACCELERATE.....IN GROUND EFFECT
4. RETRACT FLAPS...at SAFE ALTITUDE & AIRSPEED
5. NORMAL CLIMB.....65 KIAS

NOTE: Hold nose up until liftoff. Accelerate in ground effect until normal climb speed achieved, then rotate to normal climb attitude and retract flaps.

CRUISE

1. PITCH.....CRUISE ATTITUDE
2. ACCELERATE.....TO CRUISE SPEED
3. POWER.....1900-2400 RPM
4. TRIM.....FOR CRUISE SPEED
5. MIXTURE.....LEAN (at all altitudes)
6. SYSTEMS.....CHECK

IN RANGE

1. SEATS & BELTS.....ADJUSTED AND LOCKED
2. FUEL.....ON & ADEQUATE
3. AWOS / ATIS / ADVISORIES.....RECEIVED
4. RADIO.....CTAF OR ATC
5. APPROACH OR PATTERN ENTRY.....BRIEFED

BEFORE LANDING

- 1 SEATS & BELTS.....ADJUSTED & LATCHED
- 2 MIXTURE.....RICH
- 3 CARBURETOR HEAT.....ON (hot)
- 4 AIRSPEED.....70 KIAS

NORMAL LANDING

1. FLAPS.....20 DEGREES
2. AIRSPEED ON FINAL.....65 KIAS

SHORT FIELD LANDING

- 1 FLAPS.....30 DEGREES
- 2 AIRSPEED ON FINAL.....54 KIAS
- 3 MAXIMUM BRAKING.....YOKE FULL AFT

SOFT FIELD LANDING

- 4 FLAPS.....30 DEGREES
- 5 AIRSPEED ON FINAL.....60 KIAS
- 6 THROTTLE.....~1200 RPM AT FLARE
- 7 TOUCHDOWN.....MINIMUM VERTICAL SPEED

AFTER LANDING (clear of runway)

1. FLAPS.....RETRACTED
2. CARBURETOR HEAT.....OFF (cold)
3. SWITCHES AND LIGHTS.....AS REQUIRED
4. TRIM.....RESET FOR TAKEOFF
5. MIXTURE.....LEAN

SHUTDOWN

1. THROTTLE.....1,000 RPM
2. RADIO & ELECTRICALS.....OFF
3. TRANSPONDER.....STANDBY
4. MIXTURE.....CUT OFF
5. THROTTLE.....CLOSED
6. MAGNETOS.....OFF (REMOVE KEY)
7. MASTER SWITCH.....OFF

SECURE AIRCRAFT

1. INSTALL GUST LOCK
2. FASTEN SEAT BELTS
3. RECORD HOBBS TIME
4. REMOVE TRASH
5. TIE DOWN AIRCRAFT
6. RETURN BINDER TO WCFC OFFICE
7. CLOSE FLIGHT PLAN

Student Limitations

(Currently reported @ TTA)

	Ceiling	Visibility
Traffic Pattern =	2000'	5 sm
Practice Area =	3000'	5 sm
Cross Country =	4000'	>6 sm*

(* Current and predicted at all destinations)

Max Crosswind ≤ 6 knots

Winds or Gusts ≤ 15 knots

Instructor endorsement limitations

CRITICAL SPEEDS

Vx = 54 kias

Vy = 65 kias

Va (maneuvering speed) = 93-104 kias

Best glide speed = 60 kias

Max Demonstrated Crosswind = 12 knots