

Initial

- ▶ Papers - A.R.O.W.
- ▶ Control Lock - off
- ▶ Mags. - key out
- ▶ Mixture - idle cutoff
- ▶ Throttle - idle
- ▶ Avionics - off
- ▶ Fuel Shutoff - on
- ▶ Fuel - both
- ▶ Master - on
- ▶ Fuel - note
- ▶ Flaps - down
- ▶ Lights/Pitot - test
- ▶ Avionics on/off - fans
- ▶ Master - off
- ▶ Hobbs Time - note

Walkaround

- ▶ Fuel/Oil - dip/sample
- ▶ Caps/Drains/Vents
- ▶ Surfaces/Controls
- ▶ Exhaust/Antennas
- ▶ Prop/Belt/Air Intake
- ▶ Pitot/Static/Stall
- ▶ Gear/Tires/Brakes
- ▶ Ties/Baggage Door
- ▶ Final Walkaround

Pre-Start

- ▶ Doors - secure
- ▶ Belts/Seat Track
- ▶ Brakes - check, set
- ▶ Circuit Brkr. - check
- ▶ Passenger - brief
- ▶ Beacon - on
- ▶ Avionics - off
- ▶ Fuel - both

Start

- ▶ Stby. Battery - test/arm
- ▶ Engine Ind. - no Xs
- ▶ Volts - [E>24] [M<1.5]
- ▶ Amps - S<0/ann on
- ▶ Prime:
 - Mixture - idle cutoff
 - Brakes - secure
 - Master - on
 - Throttle - slight
 - Aux. Pump - on
 - Mixture - prime
 - warm: 0-3 sec
 - cold: 3-5 sec
 - Aux. Pump - off

- ▶ Mixture - 3/4 rich
- ▶ "Prop Clear!"
- ▶ Mags. - start
- ▶ Throttle - 1000 RPM
- ▶ Oil Pressure - 30 secs.
- ▶ Volts/Amps - [E>24] [M<0]
- ▶ Mixture - lean for taxi

Pre-Taxi

- ▶ Flaps - up
- ▶ Lights - as required
- ▶ Avionics - on/set
- ▶ GPS - DB date
- ▶ Fuel Totalizer - enter
- ▶ ATIS - PFD/backup/AP(?)
- ▶ Radio - test
- ▶ Transponder - squawk
- ▶ Check - TC/AI/HSI->MC
- ▶ Clearance - obtain
- ▶ Brakes - test

Run-Up

- ▶ Brakes - set
- ▶ Seat Belts - check
- ▶ Doors/Windows - secure
- ▶ Flight Controls - correct
- ▶ Instruments - scan
- ▶ Alternate Static - check
- ▶ AP - MET/HDG
- ▶ Trim - takeoff
- ▶ Fuel - on/both
- ▶ Hdg./Alt. Bugs
- ▶ GPS/Status Bar/Ann. Test
- ▶ MFD Range/Track Up
- ▶ Comm/Nav/VOR/FP
- ▶ Mixture - rich
- ▶ Throttle - 1800 RPM
- ▶ Mags. - 150, 50
- ▶ Engine Inst. - check
- ▶ Idle Check
- ▶ Throttle - 1000 RPM
- ▶ Mixture - lean
- ▶ Lights - as required
- ▶ ADSB Handheld - on

Pre-Takeoff

- ▶ Abort Plan/Lost Comm.
- ▶ Fuel - on/both
- ▶ Flaps - 0-10°
- ▶ Mixture - rich
- ▶ Aux. Pump - off
- ▶ Pitot heat - as required
- ▶ Review Airspeeds
- ▶ Time - note/start

Takeoff

- ▶ "Lights, Camera, Action"
 - Mixture/Throttle
- ▶ Engine Inst. - green
- ▶ Vr - 55 kts
- ▶ Vx - 62 kts, Vy - 74 kts

Climb / Cruise

- ▶ Cruise Climb - 75-85 kts
 - Flaps - up
- ▶ Mixture - lean >3000'
- ▶ Flow Check (↻15 min)
 - Fuel, Trim
 - Flaps, Engine Inst.
 - Mixture, Throttle
 - Master, Mag., Pump

Descent

- ▶ Mixture - richen slowly
- ▶ Throttle - as required
- ▶ Flow Check

Pre-Landing

- ▶ ATIS/Rwys & Patterns
- ▶ "CCGUMPSF"
 - G: Fuel - on/both
 - M: Mixture - rich
 - S: Seat Belts - secure
 - F: Flaps - as required
- ▶ Trim - as required
- ▶ Ldg. Light - on
- ▶ Approach - 80-65 kts

Post-Landing

- ▶ Throttle - 1000 RPM
- ▶ Mixture - lean
- ▶ Flaps - up
- ▶ Pitot Heat - off
- ▶ Trim - takeoff
- ▶ Lights - as required
- ▶ Clearance - obtain

Shutdown

- ▶ ELT - check (121.5)
- ▶ Avionics - off
- ▶ Lights - off
 - Beacon - on
- ▶ Throttle - 1000 RPM
- ▶ Mags. - off then both
- ▶ Mixture - idle cutoff
- ▶ Mags. - key out
- ▶ Master - off
- ▶ Tach Time - note
- ▶ Stby. Battery - off

Post-Flight

- ▶ ADSB Handheld - off
- ▶ Tiedowns/Chocks
- ▶ Pitot Cover
- ▶ Fuel - switch to L/R
- ▶ Gust Lock
- ▶ Close Flight Plan
- ▶ Hobbs Time - note
- ▶ Check Under Seats
- ▶ Cabin / Baggage - lock
- ▶ Post-Flight Walkaround

Engine Failure

- ▶ Short Flow
 - Fuel - on/both
 - Mixture - full/check
 - Electrical Pump - on
 - Alternate Air - on
 - Mags. - check all
- ▶ **Glide and Trim**
 - **Speed: 68 kts**
 - **Ratio: 9, 1.48nm/1000ft**
- ▶ Wind and Landing Site
- ▶ Longer Flow
 - Engine Indicators
 - Short Flow Again
- ▶ **No Restart**
 - Fuel - off
 - Mixture - idle cut-off
 - Prop/Throttle - off
 - Mags. - off
 - Master - off
 - Belt and Seat - check
 - Unlatch Door
 - Brace
- ▶ Approach - 80/70/65 kts