

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>26] [E>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