

## 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