IFR Simulator Checklist

1) ENGINE START:
   a) Battery - On
   b) Mixtures - Rich
   c) Fuel Pumps - On
   d) Magnetos - Start

2) FFGGUMPPS:
   a) Flaps (Wing + Cowl) - As required
   b) Gas (Fuel Selectors) - On
   c) Gauges (Engines) - Normal
   d) Undercarriage - As required and indicating
   e) Mixtures - As required
   f) Propellers - As required
   g) Power (Throttles) - As required
   h) Switches (All + Circuit Breakers) - As required

3) AVIONICS:
   a) Nav/Comm 1 - Tune/Identify/Test/Set
   b) GPS - Program
   c) Nav/Comm 2 - Tune/Identify/Test/Set
   d) ADF - Tune/Identify/Test/Set

4) COPY ATIS

5) REQUEST CLEARANCE (IFR/TAXI)

6) BRIEFINGS:
   a) Emergency Briefing
   b) Departure Briefing
   c) Approach Briefing (If necessary)

7) MPTILT:
   a) Mixtures - Rich
   b) Propellers - Fine
   c) Transponder - As required
   d) Indicators:
      - Heading Bug - Set to runway heading
      - HSI OBS - As required
      - GPS CDI - As required
      - Avionics Idents - As required
   e) Lights - As required
   f) Time - Record

8) TAKE-OFF CLEARANCE

9) STATIC RUN-UP (CLEAN & GREEN):
   a) Throttles - 1500 RPM
   b) Engines - Inspect Visually
   c) Gauges (Engines) – Normal

NOT TO BE USED IN AIRCRAFT

ALSIM Emergency Checklist

1) ENGINE FEATHERING/SECURING PROCEDURE
   a) Throttle of inop. engine - Retard to verify
   b) Propeller control - Feather
   c) Mixture - Cut-off
   d) Alternator - Off
   e) Magnetos. -Off
   f) Electric fuel pump- Off
   g) Fuel selector . - Off
   h) Electrical load - Reduce
   i) Crossfeed. - If necessary

2) MANUAL LANDING GEAR EXTENSION
   a) Breakers - Check
   b) Battery - On
   c) Alternators - Check
   d) Airspeed . - Reduce
   e) Gear selector - Down and locked
   f) Landing gear breaker - Pull
   g) Emergency gear switch - Up
   h) Gear lights - 3 Green

3) FAILURE OF ONE ALTERNATOR
   Ammeter indicates zero:
   a) Verify failure - Check ammeters
   b) Electrical loads - Reduce to minimum
   c) Failed alternator switch - Off
   d) Alternator breaker–Check/re-engage
   e) Alternator switch (after 1 second) - On
   If power is not restored:
   f) Inop. alternator switch - Off
   g) Electrical loads - Monitor

4) FAILURE OF BOTH ALTERNATORS
   Verify failure - check ammeters
   a) Electrical loads - Reduce to minimum
   b) Alternator switches - Off
   c) Alternator breakers - Re-engage
   d) Alternator switches (after 1 second) - On
   If only one alternator output is restored:
   e) Operating alternator switch - On
   f) Failed alternator switch - Off
   g) Electrical loads - Reduce
   h) Ammeter - Check
   If alternator output is not restored:
   i) Alternator switches (both) - Off
   j) Electrical loads - Reduce to minimum
   Land as soon as practical.

5) PROPELLER OVERSPEED(affected engine)
   a) Throttle - Retard
   b) Oil pressure - Check
   c) Propeller lever - Fully decrease then set
   d) Airspeed - Reduce
   e) Throttle -As required to remain within limitations