## Aircraft and Simulator Setup

1. Time ..... **As Chosen**
2. Weather ..... **As Chosen**
3. A/C Position ..... **As Chosen**

   **--- IF FLYING ON IVAO ---**

   a. A/C Position ..... **Free of other traffic**
   b. IVAO Pilot Client ..... **Connected**
4. A/C Refueling/Boarding/Loading ..... **Completed**

## Cockpit Inspection

1. STBY PWR Switch ..... **TEST and Hold (Green light for min 10 sec)/ON**
2. EMER LTS Switch ..... **ARM**
3. LANDING GEAR Handle ..... **DOWN**
4. BATT Buttons (Both) ..... **ON, Check Volts**
5. EIS/CAS ..... **Check**
6. XPDR ..... **STBY**
7. External Power Source ..... **As Desired**
   a. EXT PWR Button (if AVAIL illuminated) ..... **ON**
   b. BATT Amps (both) ..... **0 or Charging**

   **---AND/OR---**

   c. APU Knob ..... **ON/START**
   d. External Power ..... **Disconnected**
   e. BATT Amps (both) ..... **0 or Charging**
8. Exterior/Interior Lights ..... **ON/CHECK/OFF, or as Required**

## Cockpit Preparation

1. Cockpit Inspection ..... **Completed**
2. EIS/CAS ..... **Check**
3. Radio Frequencies ..... **Set**
4. ATIS ..... **As Required/Obtained**
5. Enroute Clearance ..... **As Required/Obtained**
6. Flight Plan ..... **Entered**
   a. Speed and Altitude Constraints ..... **Verify**
   b. No Discontinuities ..... **Verify**
   c. Cruise Altitude ..... **Set as Altitude Constraint ("AT") at Desired Waypoint**
   d. Calculated VNAV Profile ..... **Check/Verify**
7. Weight and Fuel (MFD GTC: Perf) ..... **Completed**
8. Takeoff Data (MFD GTC: Perf) ..... **Completed**
9. V Speeds ..... **Verify/Set**
10. Pressurization LDG ELEV ..... **Verify/Set**
11. Fuel Quantity and Balance ..... **Check**
12. Trims ..... **Check/Set for Takeoff**
13. Autopilot (First Flight of Day) ..... **Engage/Disengage**
14. APU Knob (if not already started) ..... **ON/START**
15. External Power (if used) ..... **Disconnected**
16. PAX Signs ..... **ON**
17. Engine Dry Motor ..... **Consider**
    a. Refer to checklist "Engine Dry Motor"

## Before Start

1. EMER/PARK BRAKE Handle ..... **Set (PARK BRAKE ON Displayed)**
2. EIS/CAS ..... **Check**
3. TO/GA ..... **Press**
4. Start-up Clearance ..... **As Required/Obtained**

## Starting Engines (Using APU)

1. Throttles ..... **IDLE**
2. ENGINE RUN/STOP Button (either engine) ..... **RUN**
3. START Pressure ..... **Verify >= 32 PSI**
4. ENGINE STARTER Button ..... **Push**
5. Engine Instruments ..... **Monitor**
6. Opposite Engine ..... **Repeat Steps 1 to 5**
7. EIS/CAS ..... **Check**

## Before Taxi

1. Flight Controls ..... **Free and Correct/Check**
2. Speedbrakes ..... **Check/Retracted**
3. Flaps ..... **Set for Takeoff**
4. Flight Instruments/Avionics ..... **Check**
   a. Attitude & Heading, Air Data Displays ..... **Aligned/No Flags**
   b. Altimeters ..... **Confirm and Compare (75 feet of field elevation, 50 feet of each other)**
   c. HSI Data Source ..... **As Required/FMS**
5. Autopilot Panel ..... **Check**
   a. FD ..... **As Required/ON**
   b. Heading ..... **As Required/Runway Heading**
   c. Altitude ..... **As Required/Initial Climb Clearance**
6. ENGINE ICE PROTECTION Buttons ..... **As Required**
7. Taxi Clearance ..... **As Required/Obtained**
8. Off-Block Time ..... **Noted**

## Taxi

1. Exterior Lights ..... **As Required**
2. EMER/PARK BRAKE Handle ..... **Stowed**
3. Brakes ..... **Check**
4. Nosewheel Steering ..... **Check**
5. Thrust Reversers ..... **Check, as Required/Stowed**
   a. Deploy (Reverse Idle) ..... **Verify Green T/R DEPLOY Indications**
   b. Stow ..... **Verify Indications Clear**

## Before Takeoff

1. Flaps ..... **Set for Takeoff**
2. Speedbrakes ..... **Retracted**
3. Trims ..... **Set for Takeoff**
4. Ice Protection Systems ..... **Check, As Required**
5. Radio Frequencies ..... **Set**
6. V Speeds ..... **Displayed**
7. SPD Knob ..... **FMS**
8. Crew Briefing ..... **Complete**
   a. If rolling takeoff planned, add 500 feet to Computed Takeoff Distance
9. Radar ..... **As Required**
10. PITOT/STATIC Button (on icing conditions, within 1 min before takeoff) ..... **ON 15 Seconds then Norm**
11. XPDR ..... **AUTO**
12. Takeoff Clearance ..... **As Required/Obtained**

**----------CLEARED FOR TAKEOFF----------**

13. Flight Controls ..... **Free**
14. Start Time ..... **Noted**
15. ICE PROTECTION BUTTONS ..... **As Required**
16. Exterior Lights ..... **As Required**
17. EIS/CAS ..... **Check**

## Static Takeoff

1. Throttles ..... **TO**
2. Autothrottle (if used) ..... **Check Green HOLD**
3. EIS/CAS ..... **Check (N1 matches command, green TO)**
4. Brakes ..... **Release**
5. Elevator Control ..... **Rotate at Vr (10 degrees initial pitch)**

## Rolling Takeoff

1. Brakes ..... **Release**
2. Throttles ..... **TO (within 500 feet after brake release)**
3. Autothrottle (if used) ..... **Check Green HOLD**
4. EIS/CAS ..... **Check (N1 matches command, green TO)**
5. Elevator Control ..... **Rotate at Vr (10 degrees initial pitch)**

## After Takeoff/Climb

1. Landing Gear (at positive rate of climb) ..... **Up**
2. Flaps (at or above V2 + 20 knots) ..... **Up**
3. Autopilot Panel ..... **Check/Set**
   a. VNAV ..... **As Required/ON**
   b. FLC ..... **As Required/ON**
   c. NAV or HDG ..... **As Required/ON**
   d. AP ..... **As Required/ON**
   **---If using NAV mode---**
   e. HDG Sync ..... **Push**
4. Autothrottle ..... **Check/Set, As Required**
5. Throttles ..... **CLB**
6. ICE PROTECTIONS Buttons ..... **As Required**
7. Pressurization ..... **Check**
8. Altimeters (at transition altitude) ..... **STD**
9. Exterior Lights ..... **As Required**
10. APU Knob (prior to climb above FL350) ..... **OFF**

## Cruise

1. Throttles ..... **CRU or as Desired**
2. Autopilot (if in RVSM airspace) ..... **As Required**
3. Altimeters (if in RVSM airspace) ..... **Crosscheck (within 200 feet at 1 hour intervals or less)**
4. Time to TOD ..... **Observe**

## Before Descent

1. Descent Clearance ..... **As Required/Obtained**
2. AP ALTITUDE ..... **As Required/Set to Descent Altitude**
3. VNAV PATH Mode ..... **Armed (White Text in Flight Mode Annunciator)**

## Descent

1. VNAV Mode ..... **Verify Green V PATH in Flight Mode Annunciator**
2. Pressurization LDG ELEV ..... **Verify Landing Elevation**
3. APU Knob (at or below FL310) ..... **ON/START, As Desired**
4. Altimeters (at transition level) ..... **Set to local QNH**
5. Exterior Lights ..... **As Required**
6. Landing Data ..... **Confirm**
   a. V Speeds ..... **Set**
   b. Landing Distance ..... **Calculate**
   **---If ILS Approach Planned---**
   c. NAV Frequencies ..... **Set/Verify**

## Approach

1. ICE PROTECTION Buttons ..... **As Required**
2. Flight Instruments/Avionics
   a. FMS/Navigation Aids ..... **Set, As Required**
   b. Minimums ..... **Set**
   c. Altimeters ..... **Verify Set to local QNH**
   **---If ILS Approach Planned---**
   d. NAV Frequencies ..... **Verify set to ILS Frequency**
3. Crew Briefing ..... **Complete**
4. If approach requires flying of sharp/acute angles ..... **Consider Speed Reduction**

**----------CLEARED FOR APPROACH----------**

5. If ILS Approach:
   a. HSI NAV Source ..... **Set LOC**
   b. APPCH Mode ..... **ON**
   c. Flight Mode Annunciator ..... **Verify LOC and GS Mode Armed**
6. Flaps ..... **1 or 2, when Desired**

## Before Landing

1. Landing Gear ..... **Down (3 Green)**
2. Flaps ..... **Full**
3. Exterior Lights ..... **As Required**
4. Speedbrakes ..... **Retracted**
5. EIS/CAS ..... **Check**
6. Autopilot (prior to minimum use height) ..... **Disengage**
7. Airspeed (minimum) ..... **Vref**
8. Landing Clearance ..... **As Required/Obtained**

## Landing

1. Autothrottle (if used) ..... **Check Green RETARD at 50 feet AGL**
2. Throttles ..... **IDLE**
3. Brakes (after nosewheel touchdown) ..... **Apply**
4. Thrust Reversers ..... **Deploy (Reverse Idle by 45 Knots)**

## Go-Around

1. TO/GA Button (either throttle) ..... **Push**
2. Throttles ..... **TO**
3. Pitch Attitude ..... **7.5 Degrees Nose Up Initially**
4. Flaps ..... **2**
5. Climb Airspeed ..... **Vapp (Minimum)**
6. Landing Gear (at positive rate of climb) ..... **Up**
7. Flaps (at or above Vapp + 10 knots) ..... **Up**
8. SPD Knob ..... **FMS**
9. Throttles ..... **AS Required**

## After Landing

1. Thrust Reversers ..... **Stow**

**----------AFTER RUNWAY VACATED----------**

2. Flaps ..... **Up**
3. Landing Time ..... **Noted**
4. XPDR ..... **STBY**
5. ICE PROTECTION:
   a. ENGINE Buttons (both) ..... **As Required**
   b. WING Button ..... **OFF**
   c. STAB Button ..... **OFF**
6. Exterior Lights ..... **As Required**
7. Taxi Clearance ..... **As Required/Obtained**

## Shutdown

1. Throttles ..... **IDLE**
2. EMER/PARK BRAKE Handle ..... **Set**
3. ENGINE ICE PROTECTION Buttons (both) ..... **OFF**
4. ENGINE RUN/STOP Buttons (both) ..... **OFF**
5. EMER LTS Switch ..... **OFF**
6. STBY PWR Switch ..... **OFF**
7. APU Knob ..... **OFF**
8. Exterior Lights ..... **Off**
9. Batt Buttons (both) ..... **OFF**

**--- IF FLYING ON IVAO ---**

10. IVAO Pilot Client ..... **Disconnect**