

BEGIN INFORMATION

1. INTRODUCTION

a. The following is an example test schedule for an Initial/Upgrade evaluation that covers the majority of the requirements set out in the Functions and Subjective test requirements. It is not intended that the schedule be followed line by line, rather, the example should be used as a guide for preparing a schedule that is tailored to the airplane, sponsor, and training task.

b. Functions and subjective tests should be planned. This information has been organized as a reference document with the considerations, methods, and evaluation notes for each individual aspect of the simulator task presented as an individual item. In this way the evaluator can design his or her own test plan, using the appropriate sections to provide guidance on method and evaluation criteria. Two aspects should be present in any test plan structure:

(1) An evaluation of the simulator to determine that it replicates the aircraft and performs reliably for an uninterrupted period equivalent to the length of a typical training session.

(2) The simulator should be capable of operating reliably after the use of training device functions such as repositions or malfunctions.

c. A detailed understanding of the training task will naturally lead to a list of objectives that the simulator should meet. This list will form the basis of the test plan. Additionally, once the test plan has been formulated, the initial conditions and the evaluation criteria should be established. The evaluator should consider all factors that may have an influence on the characteristics observed during particular training tasks in order to make the test plan successful.

2. EVENTS

a. Initial Conditions

- (1) Airport.
- (2) QNH.
- (3) Temperature.
- (4) Wind/Crosswind.
- (5) Zero Fuel Weight /Fuel/Gross Weight /Center of Gravity.

b. Initial Checks

- (1) Documentation of Simulator.
 - (a) Simulator Acceptance Test Manuals.
 - (b) Simulator Approval Test Guide.
 - (c) Technical Logbook Open Item List.
 - (d) Daily Functional Pre-flight Check.
- (2) Documentation of User/Carrier Flight Logs.
 - (a) Simulator Operating/Instructor Manual.
 - (b) Difference List (Aircraft/Simulator).

- (c) Flight Crew Operating Manuals.
- (d) Performance Data for Different Fields.
- (e) Crew Training Manual.
- (f) Normal/Abnormal/Emergency Checklists.

- (3) Simulator External Checks.
 - (a) Appearance and Cleanliness.
 - (b) Stairway/Access Bridge.
 - (c) Emergency Rope Ladders.
 - (d) “Motion On”/“Flight in Progress” Lights.

- (4) Simulator Internal Checks.
 - (a) Cleaning/Disinfecting Towels (for cleaning oxygen masks).
 - (b) Flight deck Layout (compare with difference list).

- (5) Equipment.
 - (a) Quick Donning Oxygen Masks.
 - (b) Head Sets.
 - (c) Smoke Goggles.
 - (d) Sun Visors.
 - (e) Escape Rope.
 - (f) Chart Holders.
 - (g) Flashlights.
 - (h) Fire Extinguisher (inspection date).
 - (i) Crash Axe.
 - (j) Gear Pins.

c. Power Supply and APU Start Checks

- (1) Batteries and Static Inverter.
- (2) APU Start with Battery.
- (3) APU Shutdown using Fire Handle.
- (4) External Power Connection.
- (5) APU Start with External Power.
- (6) Abnormal APU Start/Operation.

d. Flight deck Checks

- (1) Flight deck Preparation Checks.
- (2) FMC Programming.
- (3) Communications and Navigational Aids Checks.

e. Engine Start

- (1) Before Start Checks.
- (2) Battery start with Ground Air Supply Unit.
- (3) Engine Crossbleed Start.
- (4) Normal Engine Start.
- (5) Abnormal Engine Starts.
- (6) Engine Idle Readings.
- (7) After Start Checks.

f. Taxi Checks

- (1) Pushback/Powerback.
- (2) Taxi Checks.
- (3) Ground Handling Check:
 - (a) Power required to initiate ground roll.
 - (b) Thrust response.
 - (c) Nosewheel and Pedal Steering.
 - (d) Nosewheel Scuffing.
 - (e) Perform 180 degree turns.
 - (f) Brakes Response and Differential Braking using Normal, Alternate and Emergency.
 - (g) Brake Systems.
 - (h) Eye height and fore/aft position.
 - (4) Runway Roughness.