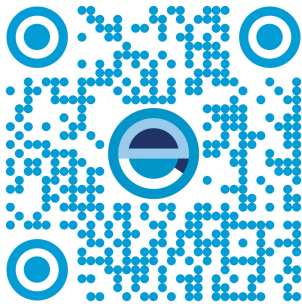


TEST READINESS CHECKLIST:

RTCA DO-160 Avionics Engineers



Use this checklist to prepare your avionics equipment for RTCA DO-160 environmental testing. Completing these items before engaging a test laboratory helps ensure an efficient test program, reduces delays, minimizes costly retesting, and provides the documentation needed to support certification and qualification activities.

Equipment & Product Information	Equipment & Product Information	Documentation Provided to Test Lab
<ul style="list-style-type: none"> <input type="checkbox"/> Equipment name and part number provided <input type="checkbox"/> Equipment function described (avionics, navigation, communication, etc.) <input type="checkbox"/> Aircraft platform or program identified <input type="checkbox"/> Hardware revision level documented <input type="checkbox"/> Software or firmware version documented <input type="checkbox"/> Weight and dimensions provided 	<ul style="list-style-type: none"> <input type="checkbox"/> Section 4 – Temperature and Altitude <input type="checkbox"/> Section 5 – Temperature Variation <input type="checkbox"/> Section 6 – Humidity <input type="checkbox"/> Section 7 – Operational Shocks & Crash Safety <input type="checkbox"/> Section 8 – Vibration <input type="checkbox"/> Section 10 – Waterproofness <input type="checkbox"/> Section 11 – Fluids Susceptibility <input type="checkbox"/> Section 15 – Magnetic Effect <input type="checkbox"/> Section 16 – Power Input <input type="checkbox"/> Section 17 – Voltage Spike <input type="checkbox"/> Section 19 – Induced Signal Susceptibility <input type="checkbox"/> Section 20 – RF Susceptibility <input type="checkbox"/> Section 21 – Emission of RF Energy <input type="checkbox"/> Section 22 – Lightning Induced Transient Susceptibility <input type="checkbox"/> Section 25 – Electrostatic Discharge 	<ul style="list-style-type: none"> <input type="checkbox"/> DO-160 test plan provided <input type="checkbox"/> Equipment installation manual included <input type="checkbox"/> Functional performance criteria defined <input type="checkbox"/> Pass/fail requirements documented <input type="checkbox"/> Engineering contact identified for test support
<h3 data-bbox="154 1045 418 1100">Test Configuration & Operating Modes</h3> <ul style="list-style-type: none"> <input type="checkbox"/> Normal operating mode defined <input type="checkbox"/> Worst-case operating mode identified <input type="checkbox"/> Power supply requirements specified <input type="checkbox"/> Data interfaces defined <input type="checkbox"/> External loads or peripherals included <input type="checkbox"/> Test configuration diagram provided 		<h3 data-bbox="1198 968 1458 999">Shipping & Handling</h3> <ul style="list-style-type: none"> <input type="checkbox"/> Equipment packaged to prevent damage during shipping <input type="checkbox"/> Handling requirements documented (ESD precautions, etc.) <input type="checkbox"/> Shipping documentation included <input type="checkbox"/> Return instructions provided
<h3 data-bbox="170 1486 418 1518">Sample Preparation</h3> <ul style="list-style-type: none"> <input type="checkbox"/> Test article labeled with part number and revision <input type="checkbox"/> Mounting orientation specified <input type="checkbox"/> Installation hardware or mounting brackets provided <input type="checkbox"/> Cable harnesses included <input type="checkbox"/> Connector pinouts documented 		<h3 data-bbox="1182 1350 1482 1404">Program & Certification Planning</h3> <ul style="list-style-type: none"> <input type="checkbox"/> Certification authority identified (FAA / EASA / OEM) <input type="checkbox"/> Target certification timeline documented <input type="checkbox"/> Qualification vs. development testing specified <input type="checkbox"/> Additional testing requirements identified