DO-254 - Electronic Hardware Development

Duration: 2 Days

Course Language: DE/EN

Course Material: EN

RTCA DO-254 "Design Assurance Guidance for Airborne Electronic Hardware" is the accepted standard for civil aviation electronic hardware development. It is recognized as a mean of compliance by the regulatory authorities for the design assurance of electronic hardware in airborne systems. This two-day course provides the necessary knowledge to get started with electronic hardware development in aviation.

Contents:

- ❖ Introduction and Background of DO-254
    - o Design Process Overview
    - o Aviation Safety Fundamentals
    - o Electronic Hardware Considerations in Aviation (AMC20-152A)
    - o Aircraft & System Development Process Overview
- ❖ Introduction to ARP4754A & ARP4761
    - o Development Life Cycle Overview
    - o Introduction to the V-Model
    - o Safety Assessment Process and Hazard Analysis
    - o Information Flow between System and Item
- ❖ Electronic Hardware Development according to DO-254
    - o Planning Process
    - o Hardware Design Process (Requirements, Design, and Implementation)
    - o Requirements Validation
    - o Hardware Verification
    - o Hardware Configuration Management
    - o Hardware Quality Assurance
    - o Certification Liaison
    - o DO-254 for COTS, FPGA, and SOC
    - o Best Practices, Examples and Exercises

For more Information or if you need a customised training contact us through info@aid-innovation.de.