



Acceleration | Innovation | Development

DO-178C - Software Development in Aviation

Duration: 2 Days

Course Language: DE/EN

Course Material: EN

RTCA DO-178C “Software Considerations in Airborne Systems and Equipment Certification” is the accepted standard for civil aviation software development and certification. Compliance with its objectives is the primary way to meet regulatory requirements and obtain approval by the regulatory authorities for airborne software. This two-day training provides detailed knowledge for many details of Software Development according to the DO-178C guidelines and an understanding of the underlying methods. Groupworks and hand on tasks reinforce the acquired knowledge throughout the course.

Contents:

- ❖ Introduction and Background of DO-178C
- ❖ Design Process Overview
 - Aviation Safety Fundamentals
 - Software Considerations in Aviation (AMC 20-115D, EASA-CM-SWCEH-002)
 - Aircraft & System Development Process Overview
- ❖ Introduction to ARP4754A & ARP4761
 - Development Life Cycle Overview
 - Introduction to the V-Model
 - Safety Assessment Process and Hazard Analysis
 - Information Flow between System and Item
- ❖ Software Development according to DO-178C
 - Planning Process
 - Software Development Process (Requirements, Design and Integration)
 - Software Verification
 - Software Configuration Management
 - Software Quality Assurance
 - Certification Liaison
 - Tool Qualification (DO-330)
 - Model Based Development (DO-331)
 - Object-Oriented Technology (DO-332)
 - Formal Methods (DO-333)
 - Best Practices, Examples and Exercises

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

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