



Bridging Aerospace and Defense Compliance Gaps . . . *Optimized*

ConsuNova Datasheet:

DO-178C TRAINING

COMPREHENSIVE TRAINING SOLUTIONS FOR COMMERCIAL SOFTWARE-BASED AEROSPACE PROJECTS

Considered the gold standard of avionics software development, DO-178C is the primary document that every major certification authority uses to certify and validate commercial software-based aerospace systems. Having started in the 1980's, the DO-178 standard's evolution has paralleled that of the avionics industry, making for a long and relatively complex past. Understanding that history and everything involved with DO-178C's current standard is crucial tool for every aerospace professional to have in their belt. That's where ConsuNova can help.

Each DO-178C training session is tailored for your organization's or team's specific needs. Attendees learn the real intent of DO-178C and the best practices that make projects adhering to DO-254 successful. All DO-178C courses cover the full DO-178C history, and development life-cycle, including topics from DO-178C planning, verification and successful DO-178C compliance audits.

KEY COVERAGE

- Overview of the Certification Process for TC/STC vs TSO/ETSO products
- Emphasis on ARP 4754A (Systems Dev.) in relation to DO-178C
- Emphasis on ARP 4761/4761A (Safety Assessment)
- In-depth Planning
- Requirements & Design Workshop/Samples
- Performing Compliance Audits
- Compliance Options for DAL-D or Military
- Differences in FAA vs. EASA compliance
- COTS, COTS IP & Previously Developed HW/SW

COURSE OBJECTIVES

- Understand the true foundation and rationale for DO-178C
- Apply military and commercial avionics certification and compliance techniques
- Understanding and applying leading DO-178C practices
- Applying DO-178C Risk, and Complexity reduction techniques
- The content of DO-178C Supplements
- Cost estimation and reduction practices
- How to identify and apply dedicated DO-178C tools
- DO-330/ED-215 Software Tool Qualification

SPECIALIZED DO-254 TRAINING SOLUTIONS

ATTENDEES RECEIVE

- Complete Training Manual
- DO-178C PSAC Template
- PSAC Checklist

TRAINING VALUES

- Industry's Best Practices
- World's most experienced instructors
- Up-to-date Certification Contents

WHO SHOULD ATTEND

- Software Engineers, Systems Engineers
- Managers, Quality Assurance

TRAINING MODULES



PRIMARY

- DO-178 & History, Introduction & Needs - DO-178C Principles
- ARP 4754 Systems Engineering & Relationship to DO-178C
- Doc. Hierarchy & Criticality Levels
- Explained DO-178C Certification
- Plans (PSAC/SCMP/SVP/SQAP)
- System & Requirements Details
- Design Aspects
- Implementation, Coding & Review
- DO-178C Verification & Overview and Objectives
- DO-178C Traceability Objectives & Tools/Methods
- DO-178C Verification Best Practices



ADVANCED

- DO-178C Structural Coverage, Tools & Strategies
- DO-178C Requirements Exercise
- Problem Reporting & Streamlining
- Design, Data & Control Flow
- COTS Usage in DO-178C
- DO-330 Software Qualification
- DO-331 Model-Based Dev. and Verification
- DO-332 Object-Oriented Tech
- DO-333 Formal Methods
- DO-178C and DO-178B history and differences
- Performing Compliance Audits



SPECIALIZED

- Overview of the Certification Process in relation to TC/STC vs TSO/ETSO products
- Emphasis on ARP 4754A (Systems Development) in relation to DO-178C
- DO-178C Planning Templates
- Req. & Design Workshop
- Previously Developed SW (PDS) Compliance & Reverse Engineering
- DAL-D or Military Compliance
- In-depth Structural Coverage Analysis Methods & Tools
- Data & Control Coupling Analysis
- Multicore usage and compliance to FAA CAST 32A

About ConsuNova

ConsuNova was founded to provide engineering services, processes and enabling tools that support compliance and certification primarily to the Aerospace market. Our mission is to add value to our customers' lives and help them fulfill their invaluable duties. We focus on accuracy, completeness and efficiency to help customers achieve their goals.



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