

# CERTIFICATION OF SOFTWARE (DO-178 B - C)

## DELTA CLASS (DIFFERENCES)

This one-day course is tuned for the software engineer familiar with DO-178B and facing compliance with DO-178C for the first time. This short class focuses on examining the changes and comparing the differences between DO-178B and DO-178C.

[Understand the context of DO-178C changes with respect to federal regulations and adjacent policy](#)

[Identify and explore the changes in "C" versus DO-178B](#)

[Understand the new supplements and how and when to use them](#)

[Compare DO-278A and DO-248C to DO-178C](#)

[Review real examples and obtain free templates for project use](#)

Since 2000, Tammy Reeve, President of Patmos Engineering Services, has been helping applicants with DO-178 compliance. From both her DO-178 auditing experience, FAA training experience, and direct participation in the SC-205 committee, Tammy developed this course offering for new DO-178C applicants.

Today, Tammy has taught her DO-254 and DO-178 courses to over 40 companies around the globe. The feedback has been overwhelmingly positive.

*"Tammy's desire to stay current is impressive. She actively seeks out collaboration and projects to increase her understanding of both guidance material and advancing technologies."*

*Karen Brack, Airborne Electronic Hardware Engineer, The Boeing Company*

Patmos offers this and several other industry leading compliance training courses, which can be delivered on-site or on-line, and can be tailored to your specific needs. You can also pair these classes with any other Patmos offering (such as a process "Gap Analysis") for a fully customized services package.

**KNOWLEDGE**  
**INTEGRITY**  
**EFFICIENCY**

## DO-178 B-C Training Outline

1. Software Certification Related Information
  - Regulation and Policy
  - Safety Analysis and Deriving DALs
  - FAA AC20-115C and EASA AMC 20-115C
  - EASA CM SWCEH-002
  - Other Certification Offices
  - Military Application of DO-178C
  - Order 8110.49 chg1
  - CAST Papers
  - Software Job Aid
  - Issue Papers & CRIs
2. Where DO-178B/C Fits in the Certification Process
  - System and Software Process Relationship
  - Purpose and Charter of DO-178C/ED-12C
  - Objectives and Annex A
  - Software Approval Process
3. Changes from DO-178B to DO-178C
  - Summary of Changes
    - Verification of Additional Code
    - Trace Data
    - Parameter Data Items
    - Level D
    - Robustness Requirements
    - System/Software Coordination
    - Deactivated and Dead Code
  - Overview of Supplements
    - DO-330 – Tool Qualification
    - DO-331 – Model-Based Design
    - DO-332 – Object Oriented Technology
    - DO-333 – Formal Methods
3. Changes from DO-178B to DO-178C (Continued)
  - Summary of Changes
    - Verification of Additional Code
    - Trace Data
    - Parameter Data Items
    - Level D
    - Robustness Requirements
    - System/Software Coordination
    - Deactivated and Dead Code
  - Overview of Supplements
    - DO-330 – Tool Qualification
    - DO-331 – Model-Based Design
    - DO-332 – Object Oriented Technology
    - DO-333 – Formal Methods
4. DO-278A and DO-248C
5. Additional Considerations
  - Tool Qualification
  - Previously Developed Software
  - Major and Minor Changes
  - Alternate Methods
3. Changes from DO-178B to DO-178C
  - Summary of Changes
    - Annex A Changes
    - A1-A10 Applicability Changes
    - A1-A10 Data Changes
    - A1-A10 Objectives Changes
    - MC/DC Changes

**No Better Choice than Patmos.**