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An overview of RTCA

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/ DO-178B and
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Applying the new
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ARP4761A— 1 Hour
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your software

according to

DO-178C DO-178B

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~~Webinar~~

Embedded Software

Testing 18-642

Developing Safety-

Critical Software: A

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*Practical Guide for
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DO-178C Compli...*

DO-178B/DO-178C

Overview - Excerpt
from Software

Development For

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Webinar Improving

Aviation Development

~~u0026 Cert Efficiency~~

~~per ARP4754A,~~

~~DO-178C, and~~

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& Answers (for
1st & 2nd
Interviews) System
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Requirements -
Aircraft System
Development Process
- EASA Rotorcraft
& VTOL 2019
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Development
Lifecycle in 9 minutes!
~~Equivalent Partition in~~

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Boundary Value
Analysis in testing
with example DO-160~~

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Testing

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Radiated Emissions

Overview

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Radiated

Susceptibility

Overview **Model**

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for DO-178C,

DO-254, ARP4754A

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DO-178C

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3837702055001 NA

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178C part08 DO

178C Gaps

-Understanding

\u0026 Closing -

Technical Training

Webinar May 2018

AFuzion 2018

~~DO-200B~~

~~Aeronautical Data~~

~~1-Hr Tutorial from~~

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~~AFuzion (Excerpt
from AFuzion's 2-Day
DO200B Training)~~

*DO-178C Software
Workflow with
Qualified Code*

*Generation FormaliSE
2019: The Benefits of
(having doubts about)
Formal Methods*

**User
Interface Design
Guidance for RTCA
DO 160 Rtca Do
178c**

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DO-178C, Software Considerations in Airborne Systems and Equipment Certification is the primary document by which the certification authorities such as FAA, EASA and Transport Canada approve all commercial software-based aerospace systems. The

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document is published by RTCA, Incorporated, in a joint effort with EUROCAE, and replaces DO-178B.

DO-178C - Wikipedia
RTCA DO-333 was developed to resolve uncertainties about using formal methods to partially satisfy verification objectives

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defined in RTCA
DO-178C.

Participants will learn how formal methods can be selectively applied in the software life cycle to produce certification data in compliance with RTCA DO 178C.

**DO-333, Formal
Methods: DO-178C
Supplement - RTCA**

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MITRE and RTCA are using their collective experience and expertise to provide training on the new standards and recommended practices contained in the new DO-178C, Software Considerations in Airborne Systems and Equipment Certification.

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DO-178C Training - RTCA

Course Overview
Responding to the
needs of the aviation
community for
additional training on
the techniques
needed to comply
with DO-178C,
Software
Considerations in
Airborne Systems and

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Equipment
Certification, RTCA
hosts a one-day
course on
Supplements. The
course provides the
background and
scope on the four
documents supporting
DO-178C:

Supplements to DO-178C Training - RTCA

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RTCA offers training courses on documents to facilitate the use of key documents by our stakeholders, and to enhance the understanding of developing and using global standards and guidance. Although DO-178 was published in 1982, and DO-178C was

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published in 2012, its relevance still spans to today. Click

**RTCA's DO-178C
Featured in Avionics
Magazine - RTCA
RTCA & FAA.**

Founded in 1935 to be the voice of the aviation industry, RTCA is chartered by the FAA to operate federal advisory

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committees, and serves as the premier venue for developing consensus among diverse, competing interests, producing performance standards, policy and operational recommendations that are used by the government as the basis for regulations, as well as priorities for

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...

DO-178C Training | RTCA

RTCA DO-178C and
DO-254 Documents
The RTCA publishes
and sells DO-178C
(for airborne software
development) and
DO-254 (for airborne
hardware
development). You
can purchase both of

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these essential
documents here:
www.rtca.org.

RTCA DO-178C and DO-254 Related Documents - PATMOS ...

RTCA DO-178

November 18, 1981

Software

Considerations in
Airborne Systems and
Equipment

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Certification This document is for use by air transport and general aviation equipment and systems developers, installers and end users.

**RTCA DO-178 -
Software
Considerations in
Airborne Systems ...**
RTCA is a private, not-

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for-profit association
founded in 1935 as
the Radio Technical
Commission for
Aeronautics, now
referred to simply as
“RTCA”. % About us.
About us; History;
Governance; Staff;
Awards; Annual
Reports; Training.
Training; DO-160G
Training; DO-178C
Training;

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Airworthiness Security
Certification Course;
Supplements to
DO-178C Training;
DO-254 Training;
Guidance For ...

RTCA | Safer Skies Through Collaboration

DO-178B, Software
Considerations in
Airborne Systems and
Equipment

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Certification is a guideline dealing with the safety of safety-critical software used in certain airborne systems. Although technically a guideline, it was a de facto standard for developing avionics software systems until it was replaced in 2012 by DO-178C.

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DO-178B - Wikipedia

DO-248C, Supporting Information for DO-178C and DO-278A, published by RTCA, Incorporated, is a collection of Frequently Asked Questions and Discussion Papers addressing applications of DO-178C and

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DO-278A in the safety assurance of software for aircraft and software for CNS / ATM systems, respectively.

DO-248 - Wikipedia

What is DO-178C?
RTCA DO-178C / EUROCAE ED-12C is an update to the DO-178B/ED-12B standard that governs

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the certification of
software for airborne
systems in
commercial aircraft.

Software Tool

Qualification

Considerations

(RTCA DO-330 /

EUROCAE ED-215)

“Overriding

supplements” for

specialized

development methods

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What is DO-178C? - AdaCore

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Form. Showing 1 - 10
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your search of
DO-178C. DO-178C -
Electronic Retail
Price: \$250.00.
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Details. DO-178C -
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The FAA published
AC20-115C on July

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19, 2013. In this Advisory Circular (AC), the FAA recognizes RTCA DO-178C, three associated technical supplements and the 'Software Tool Qualification Considerations' document. The actual documents that are the subject of this AC are the following

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RTCA documents:

FAA Recognizes RTCA DO-178C - Critical Systems Labs

The RTCA has recently released DO-178C and DO-278A as new certification guidance for the production of airborne and ground-based air traffic

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management software, respectively. Additionally, RTCA special committee SC-205 has also produced, at the same time, five

Certification of Safety-Critical Software Under DO-178C ...

RTCA/DO-178C was scheduled for

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publication (at one point) at the end of 2009. RTCA/SC-167, the committee that produced revision B, was comprised of representatives whose native languages and cultures differ. They also represented different regulatory agencies and governments.

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Talk:DO-178C - Wikipedia

This supplement contains modifications and additions to DO-178C and DO-278A objectives, activities, explanatory text and software life cycle data that should be addressed when model-based development and

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verification are used as part of the software life cycle.

The amount of software used in safety-critical systems is increasing at a rapid rate. At the same time, software technology is changing, projects are

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pressed to develop software faster and more cheaply, and the software is being used in more critical ways. Developing Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C Compliance equips you with the information you need to effectively and

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efficiently develop safety-critical, life-critical, and mission-critical software for aviation. The principles also apply to software for automotive, medical, nuclear, and other safety-critical domains. An international authority on safety-critical software, the author

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helped write DO-178C
and the U.S. Federal
Aviation

Administration's
policy and guidance
on safety-critical
software. In this book,
she draws on more
than 20 years of
experience as a
certification authority,
an avionics
manufacturer, an
aircraft integrator, and

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a software developer to present best practices, real-world examples, and concrete recommendations.

The book includes: An overview of how software fits into the systems and safety processes Detailed examination of DO-178C and how to effectively apply the

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guidance Insight into the DO-178C-related documents on tool qualification (DO-330), model-based development (DO-331), object-oriented technology (DO-332), and formal methods (DO-333) Practical tips for the successful development of safety-critical software and

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certification Insightful coverage of some of the more challenging topics in safety-critical software development and verification, including real-time operating systems, partitioning, configuration data, software reuse, previously developed software, reverse engineering, and

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outsourcing and offshoring An invaluable reference for systems and software managers, developers, and quality assurance personnel, this book provides a wealth of information to help you develop, manage, and approve safety-critical software more confidently.

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"This document addresses the questions of both the industry and regulatory authorities. It contains frequently asked questions (FAQs), discussion papers (DPs) and rationale. Many of the FAQs and DPs are based on the previous version of this

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document, DO-248B; however, some have been modified to address the changes from DO-178B to DO-178C and to make it applicable to DO-278A.

Additionally, some new FAQs and DPs have been added to provide additional clarification on DO-178C and/or

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DO-278A. The errata against DO-178B (which were in section 2 of DO-248B) have been incorporated into DO-178C.

Rationale for DO-178C and DO-278A objectives have also been included in DO-248C."--RTCA Web site.

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The two-volume set LNCS 7609 and 7610 constitutes the thoroughly refereed proceedings of the 5th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, held in Heraklion, Crete, Greece, in October 2012. The two

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volumes contain
papers presented in
the topical sections on
adaptable and
evolving software for
critical systems,
approaches for
managing change,
runtime verification:
the application
perspective, model-
based testing and
model inference,
learning techniques

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for software
verification and
validation, LearnLib
tutorial: from finite
automata to register
interface programs,
RERS grey-box
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driver verification,
bioscientific data
processing and
modeling, process
and data integration in
the networked

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healthcare, timing constraints: theory meets practice, formal methods for the development and certification of X-by-wire control systems, quantitative modelling and analysis, software aspects of robotic systems, process-oriented geoinformation systems and

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applications, handling heterogeneity in formal development of HW and SW Systems.

Written by a Federal Aviation Administration (FAA) consultant designated engineering representative (DER) and an electronics hardware design engineer who

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together taught the DO-254 class at the Radio Technical Commission for Aeronautics, Inc. (RTCA) in Washington, District of Columbia, USA, Airborne Electronic Hardware Design Assurance: A Practitioner's Guide to RTCA/DO-254 is a testimony to the

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lessons learned and wisdom gained from many years of first-hand experience in the design, verification, and approval of airborne electronic hardware. This practical guide to the use of RTCA/DO-254 in the development of airborne electronic hardware for safety

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critical airborne
applications:
Describes how to
optimize engineering
processes and
practices to
harmonize with
DO-254 Addresses
the single most
problematic aspect of
engineering and
compliance to
DO-254—poorly
written requirements

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Includes a tutorial on how to write requirements that will minimize the cost and effort of electronic design and verification Discusses the common pitfalls encountered by practitioners of DO-254, along with how those pitfalls occur and what can be done about them

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Settles the ongoing
debate and
misconceptions about
the true definition of a
derived requirement
Promotes embracing
DO-254 as the best
means to achieve
compliance to it, as
well as the best path
to high-quality
electronic hardware
Airborne Electronic
Hardware Design

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Assurance: A Practitioner's Guide to RTCA/DO-254 offers real-world insight into RTCA/DO-254 and how its objectives can be satisfied. It provides engineers with valuable information that can be applied to any project to make compliance to DO-254 as easy and

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problem-free as possible.

This book constitutes the refereed proceedings of the 16th Ada-Europe International Conference on Reliable Software Technologies, Ada-Europe 2011, held in Edinburgh, UK, on June 20-24, 2011.

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The revised 12 papers presented together with several invited contributions were carefully reviewed and selected from 30 submissions. Topics of interest to the conference are methods and techniques for software development and maintenance ;

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software
architectures;
enabling
technologies;
software quality;
theory and practice of
high-integrity
systems; embedded
systems; mainstream
and emerging
applications;
experience reports;
the future of Ada.

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Written by a Federal
Aviation
Administration (FAA)
consultant designated
engineering
representative (DER)
and an electronics
hardware design
engineer who
together taught the
DO-254 class at the
Radio Technical

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Commission for
Aeronautics, Inc.
(RTCA) in
Washington, District
of Columbia, USA,
Airborne Electronic
Hardware Design
Assurance: A
Practitioner's Guide to
RTCA/DO-254 is a
testimony to the
lessons learned and
wisdom gained from
many years of first-

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hand experience in the design, verification, and approval of airborne electronic hardware. This practical guide to the use of RTCA/DO-254 in the development of airborne electronic hardware for safety critical airborne applications:
Describes how to

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optimize engineering processes and practices to harmonize with DO-254 Addresses the single most problematic aspect of engineering and compliance to DO-254—poorly written requirements Includes a tutorial on how to write requirements that will

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minimize the cost and effort of electronic design and verification Discusses the common pitfalls encountered by practitioners of DO-254, along with how those pitfalls occur and what can be done about them Settles the ongoing debate and misconceptions about

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the true definition of a
derived requirement
Promotes embracing
DO-254 as the best
means to achieve
compliance to it, as
well as the best path
to high-quality
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Assurance: A
Practitioner's Guide to
RTCA/DO-254 offers

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real-world insight into RTCA/DO-254 and how its objectives can be satisfied. It provides engineers with valuable information that can be applied to any project to make compliance to DO-254 as easy and problem-free as possible.

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Aircraft System
Safety: Assessments
for Initial
Airworthiness
Certification presents
a practical guide for
the novice safety
practitioner in the
more specific area of
assessing aircraft
system failures to
show compliance to
regulations such as
FAR25.1302 and

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1309. A case study and safety strategy beginning in chapter two shows the reader how to bring safety assessment together in a logical and efficient manner.

Written to supplement (not replace) the content of the advisory material to these regulations (e.g. AMC25.1309) as well

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as the main supporting reference standards (e.g. SAE ARP 4761, RTCA/DO-178, RTCA/DO-154), this book strives to amalgamate all these different documents into a consolidated strategy with simple process maps to aid in their understanding and optimise their

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efficient use. Covers the effect of design, manufacturing, and maintenance errors and the effects of common component errors Evaluates the malfunctioning of multiple aircraft components and the interaction which various aircraft systems have on the ability of the aircraft to

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continue safe flight and landing Presents and defines a case study (an aircraft modification program) and a safety strategy in the second chapter, after which each of the following chapters will explore the theory of the technique required and then apply the theory to the case study

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Updates to all existing
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Featuring discussions
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involving retina scanning, speech interaction, and synthetic vision, the Digital Avionics Handbook, Third Edition provides practicing and aspiring electrical, aerospace, avionics, and control systems engineers with a pragmatic look at the present state of the

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A perennial bestseller, the Digital Avionics Handbook offers a comprehensive view of avionics. Complete with case studies of avionics architectures as well as examples of modern systems flying on current military and civil aircraft, this Third

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Edition includes: Ten brand-new chapters covering new topics and emerging trends

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display concepts involving retina scanning, speech interaction, and synthetic vision, the Digital Avionics Handbook, Third Edition provides practicing and aspiring electrical, aerospace, avionics, and control systems engineers with a pragmatic look at the

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