



Airworthiness: An Introduction to Aircraft Certification

By Filippo De Florio

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Airworthiness: An Introduction to Aircraft Certification, Second Edition, offers a practical guide to the regulations of the International Civil Aviation Organization (ICAO), the U.S. Federal Aviation Administration (FAA), and the European Aviation Safety Agency (EASA). The discussions include the concepts of flight safety and airworthiness; the ICAO and civil aviation authorities; airworthiness requirements; type certifications and the type-certification process; production of products, parts, and appliances; certifications of airworthiness; and rules for “spaceworthiness.”

The book will be a valuable resource for certification engineers engaged in professional training and practical work in regulatory agencies and aircraft engineering companies.

- The only airworthiness guide available—a unique single reference covering the requirements of the ICAO (International Civil Aviation Organisation), FAA (the US Federal Aviation Administration) and EASA (European Aviation Safety Agency)
- Demystifies the relevant European and US regulations and helps anyone involved in the manufacture, flying and maintenance of aircraft to understand this complex yet essential topic

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Editorial Review

Review

" ... discusses certification regulations, the agencies that write them and the agencies that verify they are followed from aircraft design to construction."

- Aviation Safety World

From the Back Cover

The only airworthiness guide available?

a unique single reference covering the requirements of the International Civil Aviation Organisation (ICAO), the US Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA)

A thorough understanding of airworthiness is central to maintaining and operating aircraft safely. While no book can replace the official regulatory documentation, this unique guide provides readers with a single reference covering and interpreting the relevant US and European regulations, helping anyone involved in the design, manufacture, maintenance and operation of aircraft to understand this complex yet essential topic.

Setting the requirements in a real-world context, *Airworthiness: An Introduction to Aircraft Certification* offers a clearly arranged overview and guidance on the world of aircraft certification. Key topics covered include:

- Airworthiness standards and requirements for all classes, including large and small aircraft, rotorcraft, sailplanes and unmanned aircraft
- Type certification of aircraft, engines, and propellers and the type certification process
- Parts and appliances approval
- Design and production certification approval
- Continued Airworthiness and Operation

With updates throughout to bring the book up to date with current rules and requirements, this second edition also includes a new chapter on the growing commercialization of human space flights and related airworthiness considerations.

About the Author

Mr Filippo De Florio, an aeronautical engineer, was Director of the Italian RAI-ENAC Type Certification Division between 1992-2000. In the same years, he was a member of the JAA Certification Committee. As a member of the JAR22 and JAR-VLA Study Groups since the 1970s, he has contributed to the creation and development of such standards.

He performed flight and test activity as a sailplane and aeroplane pilot for over 25 years. He is member of the OSTIV Sailplane Development Panel and Honorary Member of UVS International.

In June 2008, he was awarded the 1st UAS Pioneer Award instituted 'to honour and thank individuals for their exceptional and dedicated services to the international UAS community'.

He's currently working on the Third Edition of "Airworthiness" (expected publication: February 2016).

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Catherine Walters:

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