

EASA Airworthiness Certification and Regulation (CS 23) – 5 Days

Introduction

Certification requirements for civil [commercial] aircraft are derived from ICAO Annex 8 Airworthiness of Aircraft together with ICAO Airworthiness Manual, Part V State of Design, and State of Manufacture. Each ICAO contracting state is obligated to establish its own legal framework. Within the European Community this activity is undertaken by EASA essentially harmonised with the FAA.

EC Regulation 748/2012 provides Procedures for the certification of aeronautical products (aircraft, engines, and propellers). Known as EASA Part 21 regulations they include both procedures for design organisation approval (DOA) (Sub-part J) and production organisations approval (POA) (Sub-part G)

There are a series of technical codes that must be followed to ensure the design of the various products and parts are fully compliant with all certification requirements. Related to Small Aircraft this Technical Code is known as CS-23 Small Aeroplane Certification

The CS 23 Small Aircraft Certification training provides the delegates with a basic knowledge of the typical certification processes related to large airplanes.

The course reviews the regulatory background driven by ICAO, JAA, FAA, and EASA. Consideration is given to the technical aspects regarding systems and avionics, cabin and structure; certification topics. The Intent of this course focuses on a needs-driven agenda rather than a line-by-line review of the various requirements.

Who is the course for?

The course is for individuals involved in the aviation industry, particularly those working in the field of airworthiness certification and regulation. The course is particularly focused on the CS 23 regulations, which are specific to the certification of small airplanes.

What is the Benefit of this Training – What will I learn?

To achieve a basic understanding of Certification Specifications CS-23 together with an overview of the key fundamentals of Small Aeroplanes certification

To understand in detail the Certification Process related to Small Turbine Powered Aeroplanes

To be able to use the regulatory information to document and demonstrate compliance

To Understand the Safety Assessment Process Related to CS23-1309

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Date	On Demand
Category	Personal Development
Venue	On Demand
Level	Basic
Price	On Demand

Detailed Content / Topics - The following Subjects will be addressed

Day 1

Definitions & Abbreviations
 Airworthiness System Considerations
 High Level Introduction to Air Law
 JAA & EASA Introduction
 EASA – ICAO Interface
 EASA Regulatory Review & Basic Regulation
 The beginning of EASA / FAA Joint Certification

Day 2

Design Aspects of Airworthiness
 Introduction to Aircraft Certification Specification CS 23
 CS23 - Normal, Utility, Aerobatic, and Commuter Category Aeroplanes (Amendment 4)
 CS-23 Normal-Category Aeroplanes Amendment 5
 NPA 2016-05 Reorganization of CS-23 & CS-23 Normal-Category Aeroplanes Amendment 5
 CS 23.1308 High-Intensity Radiated Fields (HIRF) protection

Day 3

IFE Certification CS 23 Aircraft
 CS 23 Appendix G – Instructions for Continued Airworthiness
 Operational Suitability Data
 Flammability
 Cabin Refurbishment and LOPA Changes Considerations

Day 4

CS 23.2510 Equipment, systems, and Installations – System Safety Analysis
 Certification and Approval Process FAA Introduction
 EASA Certification Process
 The Certification Process Related to Type Certificate (TC)
 Restricted Type Certificate (RTC)
 Type Certification Data Sheets & Type Certification Basis
 Introduction Role & Purpose of an STC
 Considering Other Standards such as SAE, MIL, etc.
 CS 23 Equipment Standards – RTCA / EUROCAE

Day 5

Certification of Products, Parts & Appliances
 EASA Modifications Minor & Major
 Commission Regulation 748 / 2012 & Overview of Part 21 Subparts
 EASA Delegation Processes (Part 21 Subpart J)
 Design Organisation Approval (DOA) interface with Production Organisation Approval (POA)
 Certification and Approval Process EASA ETSO
 Subpart P – Permit to Fly

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Target Groups

The course is intended for personnel involved in the design of changes to TC, RTC, or STCs in the Design Organisation (DOA), or individuals intending to apply for minor changes. The course is also suitable for persons involved directly or indirectly with the System Safety Assessment process.

Pre-requisites

Familiarity with terminologies and concepts of design and initial airworthiness.

Learning Objectives

To equip the delegates with a basic understanding related to the certification requirements for turbine-powered small airplanes. Additionally to understand how to demonstrate compliance with the certification specification.

What do People Say about Sofema Aviation Services Training?

"I found satisfying answers to all my questions."
"The instructor demonstrated a very deep knowledge of the subject."
"The length of the course fits my needs and expectations."
"The content was really effective, I gained a lot of new knowledge."
"The practical examples were perfectly delivered."

Duration

5 days – Start at 09.00 and finish at 17.00, with appropriate refreshment breaks.
To register for this training, please email team@sassofia.com or Call +359 28210806

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