Aviation Regulatory Experts

SOFEMA AVIATION SERVICES

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 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 which 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.

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 details 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	Applied
Price	On Demand

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Detailed Content / Topics - The following Subjects will be addressed

Day 1

- Definitions & Abbreviations
- Airworthiness System Considerations
- Hi 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

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Detailed Content / Topics - The following Subjects will be addressed

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

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.

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Pre-Requisites

Familiarity with terminologies and concepts of design and initial airworthiness.

Learning Objectives

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

Certificates wording

EASA CS23 (Small Aircraft) familiarisation course incorporating the relevant aspects of Part 21 relating to Subpart J, Application of Part 21 within the design and certification context and the application of CS 23 in showing of compliance (Subparts A, B, C, D, F, G and H).

What do People Say about Sofema Aviation Services Training?

"The instructor used the right words to explain the material."
"The discussions among the group were very beneficial."
"The instructor showed a very resourceful background and experience."
"All sections of the course were related to my field."
"Adequate answers were given to specific questions."

Duration

5 Days – To commence at 09.00 and finish at 17.00, with appropriate refreshment breaks.

Sofema Aviation Services offers a flexible approach to developing all in-company training courses which are specific to the client's needs. If you would like additional information concerning how course content may be configured to be more appropriate for your organisation please email team@sassofia.com

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