

# EASA CS 25 Compliant Cabin Certification & Mods Training Program – 5 Days

## Introduction

Over the life of the Aircraft, the Cabin Environment is likely to see multiple modifications including any of the following

Configuration (LOPA) changes

Major and Minor seats upgrade including any of the following

First, Business and Economy classes configurations, either minor modifications or STC,

Major and Minor cabin changes

IFE Installation, Integration & Upgrades USB / PC Power Supply

Lavatories relocations, refurbishing and modification

Galley's removal or installations

Overhead bins layout change

Monuments Modification

Partitions or Movable Class Dividers

Integration of stretchers area

Cabin attendant seats installation or relocation.

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.

The course reviews the regulatory background driven by ICAO, FAA, and EASA. Consideration is given to the technical aspects regarding systems and avionics, cabin and structure, certification topics.

The Following Regulations will be considered during this course:

Part 21

CS-25

Part 26

CS-26

CS-ETSO

EASA OPS

## Who is the course for?

The course is aimed at individuals in the aviation industry who are responsible for cabin certification and modifications. The course focuses on the requirements outlined in CS 25, which are the European Aviation Safety Agency (EASA) regulations for large aircraft certification.

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<b>Level</b>	Basic
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## What is the Benefit of this Training – What will I learn?

- a) To achieve a basic understanding of Certification Specifications CS-25 related to the Cabin Environment
- b) To understand in detail the Certification Process related to the Cabin Environment of Large Turbine Powered Aeroplanes
- c) To be able to use the regulatory information to document and demonstrate compliance
- d) To Understand the Safety Assessment Process Related to CS25-1309
- e) To be able to engage with a project-based relationship with DOA & POA to promote constructive dialogue
- f) Act as an “advocate” during DOA discussions to ensure a customer-focused interpretation of regulations and certifications

## Detailed Content / Topics - The following Subjects will be addressed

### Day 1

- Definitions & Abbreviations
- Regulatory Background (ICAO, FAA, EASA)
- EASA Part 21 Introduction
- Working with EASA – Basic intro to the DOA-POA relationship
- Design Aspects of Airworthiness

### Day 2

- Certification of Products, Parts & Appliances
- EASA Part 21 Design Certification - Proportionality & Level of Involvement
- Type Certificate Data Sheet Considerations
- Introduction Role & Purpose of an STC
- Introduction to Aircraft Certification Specification CS 25
- CS 25 General Introduction
- Flight Test Overview
- Introduction & Regulatory Drivers for OSD
- EASA Part 21 – OSD Relationship

### Day 3

- FAA TSO / EASA ETSO Considerations
- EASA Certification Review Items (CRI) & FAA Acceptance
- CS-25 Detailed Review of Subparts C,D & F
  - Subpart C – Structure
  - Subpart D – Design and Construction
  - Subpart F – Equipment
- Enhanced Airworthiness Program for Aeroplanes
- Enhanced Airworthiness Program for Aeroplanes Systems (EAPAS)e Systems
- CS 25 Subpart H Electrical Wiring Interconnect Systems (EWIS)
- Cabin Flammability Certification Requirements
- Cabin Repair & Refurbishment Considerations and Certification Requirements
- Common AMC Material and Other Related Certification Guides
- General Review of Cabin Configurations

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## Detailed Content / Topics - The following Subjects will be addressed

### Day 4

- Current Certification Issuers and Challenges
- Crashworthiness Considerations
- Cabin Refurbishment and LOPA Changes Considerations
- Aircraft Certification Crashworthiness and Survivability
- CS 25 Appdx R — HIRF environments and equipment HIRF test levels
- EASA Part 21 Certification Process, Compliance Showing, Configuration Control
- Classification of Changes
- CS 25 Equipment Standards – RTCA / EUROCAE
- Certification and Approval Process EASA ETSO
- Considering OEM Documentation & Other standards such as SAE, MIL, etc.
- Subpart P – Permit to Fly
- EASA Aircraft Seat Certification Considerations – Head Impact Criteria (HIC)

### Day 5

- Seat Belt and Air Bags Considerations
- Forward / Rear & Angled Seats, Seat Deformation (AC 25.562-1B , CS 25.562)
- Passenger Emergency Exit Types and Requirements
  - Exit Row Considerations – Access – Foot / Leg Rest
  - Aisle clearance – Main aisles / Cross aisles
- Passageway, Signage & Crew Assist Space
- Declaration of Design and Performance and other report considerations
- Emergency Equipment Considerations
  - Oxygen Masks
  - Fire extinguishers,
  - First aid kits,
  - Defibrillators,
  - Smoke hoods,
  - Life Vests,
- ELT etc (TSO Considerations)
- Cabin Dividers & Soft Furnishings
- Placard Considerations
- Normal and emergency lighting, incl. emergency escape path markings (EPPM)
- Criteria for special cabin features such as bars etc
- IFE & WiFi Installation and Certification Considerations
- Additional Installation of Medical Equipment - Stretchers, (Medical Grade) Oxygen Bottles
- Performing a Cabin Certification "Walk" for compliance
- Performing an EWIS Cabin "Walk" to ensure IFE Certification Compliance
- IFE & WiFi Installation and Certification Considerations
- Debrief and Close

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## Target Groups

The course is intended for personnel involved in the specification and coordination of changes to TC, RTC, or STCs 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 the turbine-powered large airplane. 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](mailto:team@sassofia.com) or Call +359 28210806

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