

# Certification Specification 25 (CS 25) Training Course – 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 Large Aircraft this Technical Code is known as CS-25 Large Aeroplane Certification  
The CS 25 Large 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-25 together with an overview of the key fundamentals of Large Aeroplanes certification

To understand in details the Certification Process related to Large Turbine Powered Aeroplanes

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

To Understand the Safety Assessment Process Related to CS25-1309

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<b>Level</b>	
<b>Price</b>	

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

### **DAY 1**

Definitions & Abbreviations

Airworthiness System Considerations

EASA Part 21 Introduction

Design Aspects of Airworthiness

EASA Change Product Rule

EASA Part 21 Design Certification - Proportionality & Level of Involvement

### **DAY 2**

Introduction to Aircraft Certification Specification CS 25

CS25 Airworthiness Code (Certification Specification)

CS 25 – Safety Assessment CS25-1309

Flight Test Overview

Flight Manual & Supplements

Developing & Managing Instructions for Continued Airworthiness ICAW

CS 25 Appdx H – Instructions for Continued Airworthiness

Operational Suitability Data (OSD)

Subpart B – Flight

Structure General Introduction

- Introduction,
- Fatigue
- Damage Tolerant,
- Crashworthiness

### **DAY 3**

CS-25 Subpart C – Structure

Subpart D – Design and Construction

CS-25 Subpart F – Equipment

CS 25 Instrument & Electrical System Considerations

Review Guidance to Certify an Aircraft as PED Tolerant

CS-25 Subpart G – Operating Limitations and Information.

Enhanced Airworthiness Program for Aeroplanes Systems (EAPAS)

CS 25 Subpart H Electrical Wiring Interconnect Systems (EWIS)

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### DAY 4

CS 25 Appdx R — HIRF environments and equipment HIRF test levels  
EASA Part 21 Certification Process, Compliance Showing, Configuration Control  
Classification of Changes  
Type Certification Data Sheets & Type Certification Basis  
Declaration of Design and Performance and other Report Considerations

### Day 5

Current Certification Issuers and Challenges  
Flammability  
Cabin Refurbishment and LOPA Changes Considerations  
Cabin Repair & Refurbishment Considerations and Certification Requirements  
IFE & WiFi Installation and Certification Considerations  
Aircraft Certification Crashworthiness and Survivability  
CS 25 Equipment Standards – RTCA / EUROCAE  
Guidelines for Development of Civil Aircraft and Systems ARP4754A  
Certification and Approval Process EASA ETSO  
Considering Other Standards such as SAE, MIL etc.

## 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.

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## Learning Objectives

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

## Certificates wording

EASA CS25 (Large 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 25 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](mailto:team@sassofia.com)



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