

# Combined Part 21 - CS25 Consolidated Training Course – 4-Day Webinar

## 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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## Why Should I choose SAS for the training?

Sofema Aviation Services a Regulatory training and consulting company with 45 years commercial aviation experience and 12 years operational experience. Since we started we have provided certificates to approx 25,000 delegates we have grown for 2 primary reasons!

The first is that we are professional and we listen to our customers. Please visit our download area as an example of how we engage with our customer.

The second reason is a combination of outstanding course fees, together with a world beating discount program which leaves our competitors way behind – please do not take our word for it, [check it out!](#)

## What Makes SAS Combined Part 21 - CS25 Consolidated Training Course – 4-Day Webinar Webinar Training Different?

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

### Day 1

- Introduction
- EASA The 'European Aviation Safety Agency'.
- Bi-lateral agreements
- EASA Part 21 – What is it
- Certification Specifications
- Certification, Operation and Aircraft Ownership

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### Day 2

- The Design Organisation
- Level of involvement
- The Design Assurance Process
- i) Independent Monitoring
- ii) Failure investigation
- iii) Part 21.G
- Elements of Design
- i) Classification
- ii) OSD
- iii) Design Investigation
- iv) Showing of Compliance
- v) Declaration of Compliance
- The role of the CVE
- Case Study 737 12BC/
- Homework
- i) Classification
- ii) Compliance Checklist

### Day 3

- CS 25 Introduction
- Subpart A – General
- Subpart B – Flight
- Subpart C – Structure
- Subpart D – Design

### Day 4

- Subpart F – Equipment
- Subpart G – Operating Limits and Information
- Subpart H – Electrical Wiring Interconnection Systems

## 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 airplane. Additionally to understand how to demonstrate compliance with the certification specification.

## What Do People Say About Sofema Aviation Services' Trainings?

*"Questions were welcomed and immediately answered."*

*"The instructor made sure that every person understood the content of the course."*

*"The presentation of the material was perfect."*

*"The content was explained in detail."*

*"The instructor stayed on one subject until it was cleared for everybody and then moved on"*

## Duration

4 Webinar training day – each day consists of 6 actual hours with the appropriate pauses.  
Starting time - TBA

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 [office@sassofia.com](mailto:office@sassofia.com)



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