

EASA Airworthiness Certification and Regulation – 5 Days

Introduction

The course focuses on the relationship between EASA Driven Airworthiness Regulatory obligations and the methods whereby Industry is able to show compliance.

Using EASA regulatory compliance as the baseline with appropriate consideration of both the Federal Airworthiness Authority (FAA) and International Civil Aviation Organisation (ICAO)

EASA Airworthiness regulation within the commercial environment is deeply complex and wide reaching subject. Harmonisation with the FAA plays a significant role in delivering the Initial Airworthiness Compliance.

All Sofema Aviation Services Instructors have a minimum of 20 years' experience and bring a wealth of personal competency and practical experience to the training..

Who is the course for?

This course is specifically focused on the needs of stakeholders to the aviation Initial and continuing airworthiness activities across the entire regulatory spectrum.

Typically Suitable for Competent Authorities Staff, Aircraft Maintenance Organisation (AMO) Key Staff. Design Organisation (DOA) and Production Organisation (POA) Key staff including Quality and Certification (CVE). Continuing Airworthiness Management Organisations (CAMO) including Continuing Airworthiness Managers, Reliability, Engineering, Maintenance Planning and Technical Records.

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

To achieve a basic understanding of the entire EASA regulatory certification process together with an overview of the key fundamentals of Large Aeroplanes certification and the interdependencies of the various approvals

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

Achieve a significant awareness regarding the working mechanics of the certification and regulatory environment leading to improved performance and organisational benefits in your effectiveness.

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Venue	On Demand
Level	Basic
Price	On Demand

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

Significant awareness of Due Process and the ability to manage Contract and Subcontract Activities.

Improve your decision making process and ensure an increased awareness of business exposure.

Detailed Content / Topics - The following Subjects will be addressed

Day 1

- Definitions and Abbreviations
- Airworthiness System Considerations
- Hi Level Introduction to Air Law
- ICAO Continuing Airworthiness Drivers
- Airworthiness Principles & Continuing Airworthiness
- JAA & EASA Introduction
- EASA – ICAO Interface
- EASA Regulatory Review & Basic Regulation
- Understanding the Principle of Implementing and Delegated Acts

Day 2

- The beginning of EASA / FAA Joint Certification
- EASA Airworthiness Requirements
- EASA Operator Responsibilities Concerning Continuing Airworthiness
- Design Aspects of Airworthiness
- Introduction to Aircraft Certification Specification CS 25
- CS25 Airworthiness Code (Certification Specification)
- CS 25 Introduction to Airworthiness – Safety Assessment
- Certification and Approval Process FAA Introduction
- The EASA Certification Process
- The Certification Process Related to Type Certificate (TC) & Restricted Type Certificate (RTC)
- Introduction Role & Purpose of a Supplemental Type Certificate (STC)
- Full & Restricted Certificates of Airworthiness

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Day 3

- Certification of Production of Products, Parts & Appliances
- Introduction to FAA Airworthiness Directives
- Introduction to EASA Airworthiness Directives
- Service Bulletins (SB) Vendor Service Bulletins (VSB)
- FAA / 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)

Day 4

- Certification and Approval Process EASA ETSO
- Developing & Managing Instructions for Continued Airworthiness ICAW
- Regulatory Review related to Part M, & Part CAMO
- Continuing Airworthiness Management
- EASA Compliant Aircraft Maintenance Program - Review of Critical Items
- Regulatory Review related to Part 145
- Regulatory Review related to Part 66 & Part 147

Day 5

- Structural Integrity & Ageing Aircraft Structures and Systems
- Aircraft Repair Assessment & Facilitation
- The Goals and Objectives of Aircraft Incident Investigations
- ICAO Annex 13 Introduction and Associated Documents
- Introduction to the Task of Aircraft Accident Investigation
- Aircraft Certification Crashworthiness and Survivability
- Investigation -Key Stages Review Fact Finding, Analysis, Conclusions, Recommendations, Final Report
- How to Approach Contributory Factors, Risk and Severity

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Target Groups

Nominated personnel and other key personnel in Part 145, Part M and Part 21 Design & Production Organisations, Quality Managers/ Quality Auditors and Airline CAMO Staff.

Regulators and persons interested in obtaining a detailed understanding of the Design, Certification and Production environments as well as an understanding related to Regulation 1321/2014

Pre-Requisites?

It is not necessary to have prior knowledge to participate in this training.

Learning Objectives

At the end of this Training the delegate should have a comprehensive understanding of the Roles and responsibilities across both Initial and Continuing Airworthiness. In addition to have a firm understanding of areas where organisations may consider opportunities to optimise.

A detailed understanding of Aviation Product Design and Production regulatory driven processes.

This training is intended to focus on the essential elements to provide a comprehensive understanding of the entire EASA Regulatory and Certification Process.

Certificate wording

Introduction to ICAO SARPS, FAA & EASA Certification Principles related to Aircraft Design, Certification and Continuing Airworthiness Management. Full Consideration of the key fundamentals of Large Aeroplanes certification, Appreciation of CS25 and the interdependencies of the various approvals. Detailed awareness regarding the EASA working mechanics of the certification and regulatory environment.

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 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 – Each Training day will start at 09.00 and finish at 17.00, with appropriate refreshment breaks.

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