



TRAINING COURSE DETAILS

EASA Part M / GCAA CAR M Implementing, Developing and Managing an Effective Reliability Program – 3 Days

INTRODUCTION

When dealing with the complex technical systems involved in air transport and the extensive competition, the consequences of unreliable services become critical and may include –

- A high cost of operation;
- A loss of productivity;
- Incidents, and exposure to accidents.

To this end, aircraft operability is considered as one of the major requirements by air operators. Aircraft operability is the aircraft's ability to meet the operational requirements in terms of operational reliability (i.e. the percentage of scheduled flights that depart and arrive without incurring a chargeable technical/operational interruption).

Reliability programs form an essential element of the continuing airworthiness process and in fact are mandatory when aircraft are managed using MSG methodology.

The purpose of a reliability program is to ensure that the aircraft maintenance program tasks are effective and their periodicity is adequate, in addition the reliability program may result in the escalation or deletion of a maintenance task, as well as the de-escalation or addition of a maintenance task.

Whilst the primary purpose is to demonstrate the effectiveness of the Aircraft Maintenance Program, we can use the reliability program to support both the optimisation and development of the maintenance program.

Reliability data is also collected and analysed by the manufacturer as a tool to optimise the maintenance process and such information is typically considered by the MRB working groups.

This intensive 3 Day practical course is specifically aimed at organisational personnel who are required to actively control and deliver the aircraft reliability program.

The training focuses on the gathering and processing of data. The display of Reliability Data and the way in which this data may be used to benefit the maintenance program.

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

- a) Understand the role of Reliability within the CAMO group
- b) Understanding how an effective reliability program can drive operational optimizations
- c) Develop enhanced awareness of warranty related benefits
- d) Consider the role of reliability driven Aircraft System and Vendor Service Bulletin implementation
- e) Be able to explain the purpose and operational functionality of the Reliability process within your organisation.

Who is the Course for? -

It is for persons who are involved in the technical management of Commercial Aircraft Maintenance (CAMO), In Particular Persons with responsibility for the Reliability function. Technical Engineering, Maintenance Planning, CAMO Quality Auditors, Technical Records as well as anyone with an interest to achieve an effective interface between the reliability function and other departments within the organisation.

Why Should I choose SAS for the training?-

Sofema Aviation Services a Regulatory training and consulting company with 45 years commercial aviation experience and 10 years operational experience. Since we started we have provided certificates to approx 15,000 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
<https://sassofia.com/download-area>

The second is not only the fact that our prices are far more cost effective than our competitors it is that our discount program leaves all the others way behind – please do not take our word for it check it out! [SAS Discount Program](#)

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What Makes SAS EASA Part M / GCAA CAR M Implementing, Developing and Managing an Effective Reliability Program different? -

Because our courses are written by people who have lived through the regulations, from the introduction in the early 00's. EASA Part M is an essential regulation related to the management of the aircraft.

At Sofema Aviation Services our focus is on accepting that compliance with EASA Regulations is in fact minimum compliance. Interpreting the regulations in a way which enables the development and optimization of our business is where we should see opportunity to drive efficiency and cost saving.

Detailed Content / Topics - The following Subjects will be addressed

Day 1

- Abbreviations & Terms
- Aircraft Maintenance Program Introduction
- General Introduction to Aircraft Reliability Systems
- Part M Subpart C Regulatory Driven Reliability requirements
- Maintenance Planning Engineering Function
- The Benefits of an Effective Reliability Program
- Performance Standards
- Measures of Reliability
- Operator Responsibilities
- Structure and Development of the Reliability Program
- Aircraft Maintenance Programme Reliability Considerations

Day 2

- Information Sources & Data Acquisition
- Reliability Analysis and Interpretation
- Standard Deviation & Alert Levels
- Calculating Reliability Data
- Indicators of Structural Reliability
- Indicators of Aircraft Components Reliability
- Presenting Reliability Data
- Engine Reliability Program (Engine Condition Trend Monitoring (ECTM))
- Effective use of reliability data to support the management of Continuing Airworthiness
- Understanding Strip reports and working with workshop data

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Detailed Content / Topics - The following Subjects will be addressed

Day 3

- Reliability Programme Administration
- Manage Competencies within a Reliability Framework
- Developing Reliability Procedures
- Reliability Auditing
- Corrective Actions
- Reliability Driven Optimization
- Managing External Information Sources
- Pooling Arrangements
- Evaluation, Review and Changes
- Managing check findings in the context of reliability
- Measuring the Effectiveness of the Maintenance Planning Process

Target groups

CAMO staff involved in managing the Maintenance or Reliability programs, Reliability Staff and other staff with technical involvement in the Aircraft reliability processes.

Pre-requisites

A background in an aviation airworthiness environment. Detailed awareness of Part M / CAR M CAMO obligations and processes.

Learning Objectives

A reliability program provides an appropriate means of monitoring the effectiveness of the maintenance program. This training covers all elements required to ensure you achieve the maximum benefit from your Reliability Program.

Duration

3 Days - Each training day will start at 09.00 and finish at 17.00 with appropriate refreshment breaks.

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