

EASA Part M – Understanding MSG 3 Methodology and Analytic Process Fundamentals – 2 Days

Introduction

In 1979 the Air Transport Association (ATA) task force sought to improve on MSG-2 to address a new generation of advanced technology aircraft (B757 & B767), the outcome was MSG-3.

MSG-3 is now the preferred method used for developing the scheduled maintenance tasks and intervals which will be acceptable to Regulatory authorities, Operators, and Manufacturers.

MSG 3 delivers a top-down approach that focuses on the need to ensure either economic viability or to maintain the aircraft system, component, or structure in an airworthy condition.

For each potential failure cause, the MSG-3 guidelines provide task-oriented logic to determine the appropriate scheduled maintenance tasks. The resulting task-oriented program consists of specific tasks, selected for a given functional failure consequence based on the actual reliability characteristics of the equipment they are designed to protect.

Tasks are selected in a hierarchy of difficulty and cost, from lowest to highest. Depending on the consequence of failure (safety, operational, economic, hidden safety, and hidden non-safety) a single or combination of tasks will be selected.

This course provides an opportunity to understand the scope and functionality of MSG3 process and how it relates to the development of the Maintenance Review Board Report.

Who is the course for?

All personnel with duties and/or responsibilities in the Airline Planning environment. Quality Assurance Staff. Also of Interest to persons working in a CAMO or Part M Quality System. Production Planning and Reliability Specialists, Engineers, Managers & Lease Companies.

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

- a) A deeper understanding of the Role of the Maintenance Process. The role of MSG-3 the obligations of the THC STCH and the Operator.
- b) An effective understanding of the methodology used to determine the development of appropriate and applicable maintenance tasks.
- c) An insight into how the organisation may develop in house improvements in the Maintenance Process.

Detailed Content / Topics – The following Subjects will be addressed

- Contents
- Abbreviations and Terms
- The Origins of MSG-3
- Requirements for A/C certification (Type Certification)
- Basis documentation: Air Transport Association of America, MSG-3 (Revision 2018)
- Aircraft Maintenance Fundamentals
- Understanding the Failure Process
- MRB and ISC Meetings, MRB Report approval process
- Aircraft Maintenance Program – Developments
- General Introduction to MSG-3 Process
- Features and Benefits of MSG-3
- MSG-3 Analysis Methodology
- Maintenance Significant Item Selection
- System and Power Plant Analysis
- Structural Analysis
- Zonal Analysis
- EWIS / HIRF
- MSG 3 / MRB Revision process
- MSG 3 Analysis examples

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Target Groups

The course is beneficial for persons requiring a comprehensive understanding of MSG-3.

The course will also be beneficial to persons working within a CAMO environment for example Reliability engineering, Maintenance Program Management, and Quality Audit Staff.

Pre-Requisites

A background in aviation maintenance planning and reliability will be a distinct advantage however the course is stand alone.

Learning Objectives

This course aims to provide the participants with an in-depth understanding of the MSG-3 process and methodology employed to develop MSG-3-based Maintenance Programmes.

What do People Say about Sofema Aviation Services Training?

"The course expanded my competence on the subject."

"The teaching approach was great."

"The instructor was very passionate about the subject."

"Everything was very well-prepared."

"All questions were explained clearly."

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Duration

2 Days – Each day will commence at 09.00 and finish at 17.00, with appropriate refreshment breaks.

To register for this training, please email team@sassofia.com or Call +359 28210806



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