

Reliability Mathematics – Utilising Airline Reliability Systems and Data – 1 Day

Introduction

An effective Aircraft maintenance Reliability System is about identifying failure-rate trends is not only a part of aircraft maintenance programme effectiveness, but also contributes to the overall exposure to safety risk as experienced by the entire business.

Effective statistical analysis provides the fundamental mechanism to proactively seek, identify and quantify aircraft maintenance reliability trends by utilising failure mode and failure rate data. Not least ascertain the effectiveness of the aircraft maintenance programme.

This highly interactive workshop delivers a practical understanding of typical airline reliability systems, not least the mathematical formulae utilised by major international carriers that are behind effective airline maintenance reliability analysis.

During the workshop delegates will consider a simple aircraft component and interpret the data with a view to identifying failure rate trends and make key decisions regarding the component, maintenance programme and/or individual task development.

Who is the course for?

It is for persons who are actively involved in the management or Interaction of the organizations Reliability Management System including Aircraft or Component Maintenance Planners, Maintenance Programme Engineers or Aircraft Maintenance Reliability Engineers with a basic knowledge and competence of airline/aviation compliant reliability system.

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

Delegates will achieve a detailed understanding of the airline reliability system of a major international carrier. Delegates will be able to develop processes and procedures for manually based systems, and receive guidelines for interacting with typical maintenance management software.

Utilise aircraft, engine and component reliability formulae with a view to analysis, interpretation and reporting of reliability data.

Ensuring correct interpretation of reliability data with a view to ascertaining the effectiveness of the Aircraft Maintenance Programme.

Contribute to the decision making process of engineering management of when to alert, when to watch when there is no action necessary or when to clear from alert.

tel + 359 2 821 08 06
email team@sassofia.com

www.sassofia.com

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Detailed Content / Topics - The following Subjects will be addressed

- Airline/Aviation Reliability System Description.
- How and where to use Standard & Alert Level Deviation in Airline Reliability Management.
- Investigating Reliability Alerts, Corrective Action & Follow-Up.
- The Mathematics Behind Typical Airline/Aviation Reliability Systems.
- Analysis & Interpretation of Aviation Reliability Data.
- Review of a Real Aviation Reliability Report.

Target groups

Entry or Advanced level Aircraft or Component Maintenance Planners, Maintenance Programme Engineers or Aircraft Maintenance Reliability Engineers.

Pre-requisites

Completion of :
SAS Effective Aircraft Maintenance Planning – 5 Days
SAS Aircraft Maintenance Reliability Theory – 3 Days

A background understanding related to aviation reliability is an advantage, however, specific reliability competencies are not essential.

Learning Objectives

Ultimately, the delegate will be able to:

- Explain and apply Standard Deviation to Alert Levels or Upper Control Limits.
- Define and Calculate typical aviation reliability formulae.
- Verify, Interpret and present typical reliability data in either a tabular or graphical format.
- Explain the logical process of investigating reliability alerts.

Certificate Wording

Salient Features & System Description, Standard and Alert Level Deviation Reporting, Investigating Reliability Alerts, Typical Airline Reliability Formulae, Analysis and Interpretation of Typical Airline Reliability Data.

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What do People Say about Sofema Aviation Services' Training?

"Very effective, useful and informative training."

"Absolutely perfect examples and clear for understanding training."

"The instructor has excellent teaching skills and was sharing personal experience"

"Very effective, useful and informative training."

"All the practical examples provided during the training were useful."

Duration

1 day - The training 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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