

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 behind effective airline maintenance reliability analysis.

During the workshop delegates will consider 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.

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Date	On Demand
Category	Personal Development
Vanue	On Demand
Level	
Price	On Demand

Why Should I choose SAS for the training?

Sofema Aviation Services is a Regulatory Training and Consulting company with 45 years of commercial aviation experience and 10 years operational experience. Since the start we have provided certificates to approx 20,000 delegates and we have grown for 2 primary reasons!

The first is that we are professional and we listen to our customers.

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 Reliability Mathematics – Utilising Airline Reliability Systems and Data – 1 Day Training Different?

Our courses are written by people who have lived through the development of aircraft maintenance and reliability programmes.

At Sofema Aviation Services our focus is only on the the development of reliability systems, processes and procedure as a matter of minimum compliance, but going further to ensure that delegates whom are new to the subject are presented with all of the information, insight and advice necessary to return to their desks and 'hit-the-ground running'.

Interpreting and applying Reliability in this way, enables the development and optimization the safety of your business, whilst taking the opportunity the drive for efficiency and cost-saving.

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 Behine Typical Airline/Aviation Reliability Systems;
- Analysis & Interpretation of Aviation Reliability Data;
- Review of a Real Aviation Reliability Report.

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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.

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

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