In-Company Training

This programme is available for cost effective 'in-company' group training. For more information on the options, please email train@smallpeice.com.

Design FMEA for Aerospace Suppliers 3x 3¹/₂-hour Programme

Overview

FMEA is a mandatory requirement for many companies - providing a process for categorising failures in order to prioritise items of risk. This practical workshop will step delegates through a case study-based workshop - learning how to analyse the product functions in terms of risk, identify failure modes and effects, and understanding how to set priorities using the severity rating scale.

- · Introduce the concept and types of risk management
- Practise the FMEA method
- Understand the links between the FMEA types
- Learn how to generate a validation plan
- Know how special characteristics are managed
- · Understand how FMEA links with other quality tools
- · Recognise what is best practice in FMEA management

Training Content

The Concept of Design Risk

• Introducing the fundamentals of engineering risk management Risk Management Types

- Various types of risk analysis that are available to the engineer FMEA Types
- How FMEA practice is used to establish a foundation for improvement and decision making
- How FMEA connects with the GKN Lifecycle gates

The ASI3100 / RMI3004 Standard

• What standard is being used?

The FMEA Method

• The use of a common approach

Project Design Risk Review

 How can DFMEA practice help a product development project?

IStructure Analysis

• What level of detail is to be analysed?

Functional Analysis & Requirements

Defining success

Failure Modes

• Defining the places to be avoided

Effects & Severity

• Giving the Failure Modes priority

Causes, Prevention Control & Occurrence

• What potential design weaknesses could lead to the Failure Mode and their likelihood

Detection Control & Detection

• How is it known that the design is right?

Current Risk

• Review the FMEA story to determine where mitigating action needs to be taken

Action Creation, Review & Planning

• Recommend actions. Review, authorise and plan them

Residual Risk

· Determine action impact on overall design risk

Reference Content

• How to create a stock of DFMEA content that can be used for a particular product type

Verification Plans

 Using DFMEA Detection Controls as the foundation for Verification Plans

