

Process FMEA

aligned with ASI3100

1 day workshop

Open enrolment classes

- **September 16th 2026**
(8.30am – 4.30pm BST /
7.30am – 3.30pm UTC)

Fees:

The cost per participant is £295+VAT, which includes comprehensive reference materials.

To book places:

- Please email Smallpeice via train@smallpeice.com with your requirements.
- Our experienced booking team will then send you a booking form.

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.

Overview

FMEA is an analytical method to ensure potential problems have been considered, assessed for risk and actioned as part of product and process design. This workshop steps through a practical case study based workshop to cover the Process FMEA and Control Plan requirements for ASI3004 as well as highlighting the importance of integrating Design and Process FMEA. Participants will learn how to analyse product features relative to manufacturing processes in terms of risk; identify failure modes and effects; and set priorities using the severity rating scale. The training will:

Objectives

- Introduce the concept and types of risk management
- Practise the FMEA method & understand the links between the FMEA types
- Learn how to generate the Control Plan & know how special characteristics are managed
- Understand how FMEA links with other quality tools & develop practice in FMEA facilitation

Training Content

Introduction to FMEA

- Product and process risk assessments & link to Zero Defects
- Challenges of producing Process FMEAs to ASI3004 standard

The FMEA Method

Introduction to the FMEA methodology, and link to Design FMEA

- Identify:
 - Failure mode: failure definition
- Assess:
 - Effects & severity: what would be the result of the failure mode and how bad would it be
 - Causes & occurrence: what mistakes could lead to the failure and what are their likelihoods
 - Control & detection: how could failure be detected
 - Current risk: things that need improvement
- Control:
 - Action plan: ideas for improvement
 - Future risk: the impact of the improvements

Process FMEA - Preparation and Identify Phase

- Process boundary setting: what is the subject process
- Process mapping: describing the process
- Design & process linking: Characteristic matrix
- Failure mode identification & specification
- Giving the failure mode some status
- Potential mistake identification and review
- Current process control & its effectiveness
- Evaluating current risk

Process FMEA - Control Phase

- Generation and review of recommended actions
- Action escalation and management
- Outstanding risk after action

FMEA Facilitation (the 5 Ps)

- The use of FMEA reference content
- Preparation – pre-work and ownership
- People – the FMEA team
- Post-event – follow up actions & support