Failure Mode and Effects Analysis (FMEA) Training

Gain an understanding of the principles behind Failure Mode and Effects Analysis (FMEA) techniques and how they can be applied at each stage of product and process development by attending this Failure Mode and Effects Analysis – FMEA training course.

This practical 1-day course includes interactive activities that encourage discussion around performing an FMEA within an organisation. Workshops build across the course that consider defining a component list for a product, through exploring component functions and their requirements, to identifying and assessing potential failure modes, and how those failures can be controlled.

Upon completion of the course, delegates will have a basic knowledge of the FMEA methodology and how to apply it to improve product and process design, with the aim of identifying, controlling and eliminating the risk of failure.

COURSE DURATION
1 day

CPD
Equivalent to 7 hours

COURSE PRICE
From £625 + VAT

DATES & VENUES
View dates & venues

CERTIFICATES
All delegates will receive a certificate on completion.

Course details ›

Who should attend?

MSA is a core component of the Six Sigma approach and IATF 16949, making this course valuable for a range of individuals, including:

- product developers involved in developing new product introduction strategies and those concerned with 'time-to-market'
- manufacturing and engineering managers who need to improve manufacturing capability, predict initial product yield and improve cross-functional technical communications
- design engineers responsible for new product design and introduction who need to improve customer definition and manufacturing feedback
- quality/reliability managers and engineers who want to facilitate an awareness and application of these tools within their organisation
- process engineers who will be involved in formulating the manufacturing control plan

Additional Core Tools courses include Introduction to APQP and PPAP, Measurement Systems Analysis (MSA), and Statistical Process Control (SPC).

Claim a discount of £100 if you book any 2 of our Core Tools courses together.

If you would like to receive training in all 5 Core Tools – APQP & PPAP, FMEA, SPC and MSA – take a look at our Core Tools Package, offering significant savings over booking the 4 courses separately.

Key topics

Topics covered on the course include:

- the business need for FMEA in product and process design
- types of FMEA – system, design, process and machinery
- FMEA methodology and defining:
  - customer's expectations and requirements
  - potential failure modes
  - consequences of failure and identifying causes
  - methods of detection and prevention
  - assessing severity
  - evaluating the 'risk' and prioritising areas for improvement
  - implementing corrective actions in product and process design
  - risk reduction strategies
- case studies:
  - product design FMEA
  - process FMEA

The connections between FMEAs and design validation/production control plans and other quality management tools will be explained during the course.

Course agenda

Our training courses are designed to optimise the learning experience for delegates both in face-to-face settings and in our Virtual Classroom.

Under the guidance of our expert tutors, attendees will follow an agenda which is briefly outlined below:

- Welcome and introductions
- Module 1 Introduction and Overview of FMEA
- Module 2 FMEA Purpose & Structure
- Module 3 FMEA Teams
- Module 4 FMEA Scope
- Module 5 FMEA Creation
- Module 6 Process FMEA
- Review & Close

In-company training

Ideal for groups, you can receive this course exclusively for your organisation at your premises or online in our user-friendly Virtual Classroom.

Enjoy cost-effective flexibility and personalised learning with tailored messaging designed to address your unique business challenges. Contact us for a quote.

Skills gained

By the end of this FMEA training course, delegates will be able to produce an FMEA and fit an FMEA into overall design by:

- identifying the requirements and expectations for the product or process
- identifying and defining potential failure modes
- developing an effective control plan that will reduce the risk of product failure
- identifying and assessing the potential effects of failure on internal processes, supply chain partners and end users

To recognise their new knowledge and skills in FMEA, delegates who attend the full course will receive a certificate of completion.

> The course gave me the understanding and depth of knowledge to go into my workplace and start thinking of the root cause of the potential issues especially in FMEA.

Network Rail

> Tutor was brilliant, delivered the content in a way everyone could understand. He was very good at managing each person on the course and making sure we were all progressing throughout.

NP Aerospace Ltd

> The tutor had excellent knowledge of the subject and was able to link the course content to real life practice and tailor the examples and illustrations to relevant examples for the group.

Balfour Beatty

Read our Core Tools course reviews

Why train with Bywater?

Bywater is the leading independent provider of professional management systems training in the UK.

Our expert training offers practical understanding of how to realise the benefits and assess the success of implementing and operating successful management systems.

Bywater delegates know they can rely on proven training delivered by experts at times and locations to suit their needs.

40 years established

100+ course titles

15 UK locations

1000+ courses annually

🌐 Global Virtual Classroom

CQI & IRCA, ISEP, RSS and IOSH approved training provider.

📅 **VIEW DATES & VENUES**

Booking is easy

Simply select a course date and venue and fill in the online form. View our full range of courses at **www.bywater.co.uk**

If you have any questions please call us on 0333 123 9001, use our online chat or email **contact@bywater.co.uk**

B y w a t e r