

QUALITY & OPERATIONAL EXCELLENCE | COURSE BROCHURE

Failure Mode and Effects Analysis (FMEA) for Quality

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

FMEA is a structured method to identify potential failures in designs and processes and prioritise actions to prevent them. This course covers design and process FMEA, function analysis, failure modes, effects and causes, risk prioritisation, action planning, control plans and linking FMEA to continuous improvement.

Preventing failures is cheaper than correcting them. This course helps you apply FMEA effectively to improve quality and reliability.

Professional Problems This Course Is Designed to Solve

• Difficulty translating subject knowledge into practical workplace decisions.
• Inconsistent approaches to the activities covered in the course outline.
• Lack of a structured plan for applying and reviewing new skills.

Course methodology

The course uses team FMEA workshops on realistic cases, templates and facilitation practice.

Course objectives

By the end of this course, participants will be able to:
• Explain the purpose and types of FMEA
• Define scope, structure and functions
• Identify failure modes, effects and causes
• Prioritise risks using appropriate methods
• Develop preventive and detection actions
• Link FMEA to control plans and improvement

Target audience

This course is suitable for:
• Quality engineers
• Design and process engineers
• Manufacturing and operations engineers
• Reliability engineers
• Continuous improvement professionals



Course content

Target competencies

Participants will develop competencies in:

- FMEA facilitation
- Function analysis
- Failure mode identification
- Risk prioritisation
- Control planning
- Preventive action

Course outline

Day 1: FMEA Fundamentals

09:00–09:54	Purpose and benefits
09:54–10:48	Design and process FMEA
10:48–11:00	Standards and approaches
11:00–11:30	**Coffee break**
11:30–12:12	Standards and approaches (continued)
12:12–13:06	Team roles
13:06–14:00	Exercise: FMEA scoping

Day 2: Structure and Function

09:00–09:54	Structure analysis
09:54–10:48	Function analysis
10:48–11:00	Requirements
11:00–11:30	**Coffee break**
11:30–12:12	Requirements (continued)
12:12–13:06	Interfaces
13:06–14:00	Workshop: Structure and function



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Day 3: Failure Analysis

09:00–09:54	Failure modes
09:54–10:48	Effects and causes
10:48–11:00	Severity, occurrence and detection
11:00–11:30	**Coffee break**
11:30–12:12	Severity, occurrence and detection (continued)
12:12–13:06	Action priority
13:06–14:00	Workshop: Failure analysis

Day 4: Actions and Controls

09:00–09:54	Preventive actions
09:54–10:48	Detection controls
10:48–11:00	Control plans
11:00–11:30	**Coffee break**
11:30–12:12	Control plans (continued)
12:12–13:06	Verification
13:06–14:00	Case study: Process FMEA

Day 5: Using FMEA

09:00–09:54	Facilitation tips
09:54–10:48	Living FMEAs
10:48–11:00	Linking to improvement
11:00–11:30	**Coffee break**
11:30–12:12	Linking to improvement (continued)
12:12–13:06	Common mistakes
13:06–14:00	Capstone: FMEA review

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the



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sessions. They are indicative only and do not constitute a binding commitment.

Dates, venues and fees

Current published course plans. Fees are per participant in EUR, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (EUR)
Dubai Confirmed dates	16 Nov 2026	20 Nov 2026	**€3,150.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.–**
Cape Town Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,890.–**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.–**
Frankfurt Confirmed dates	7 Dec 2026	11 Dec 2026	**€2,650.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
Kuala Lumpur Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,450.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Paris Confirmed dates	4 Jan 2027	8 Jan 2027	**€2,860.-**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**€1,250.-**
Istanbul Confirmed dates	18 Jan 2027	22 Jan 2027	**€2,650.-**
Online Confirmed dates	18 Jan 2027	22 Jan 2027	**€1,250.-**
Amsterdam Confirmed dates	1 Feb 2027	5 Feb 2027	**€2,540.-**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.-**
Singapore Confirmed dates	15 Feb 2027	19 Feb 2027	**€2,820.-**
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**€1,250.-**
Vienna Confirmed dates	22 Feb 2027	26 Feb 2027	**€2,940.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**€1,250.–**
London Confirmed dates	1 Mar 2027	5 Mar 2027	**€2,450.–**
Online Confirmed dates	1 Mar 2027	5 Mar 2027	**€1,250.–**
Dubai Confirmed dates	15 Mar 2027	19 Mar 2027	**€3,150.–**
Online Confirmed dates	15 Mar 2027	19 Mar 2027	**€1,250.–**
Frankfurt Confirmed dates	5 Apr 2027	9 Apr 2027	**€2,650.–**
Online Confirmed dates	5 Apr 2027	9 Apr 2027	**€1,250.–**
Cape Town Confirmed dates	12 Apr 2027	16 Apr 2027	**€1,890.–**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Kuala Lumpur Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,450.–**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,250.–**
Paris Confirmed dates	3 May 2027	7 May 2027	**€2,860.–**
Online Confirmed dates	3 May 2027	7 May 2027	**€1,250.–**
Istanbul Confirmed dates	17 May 2027	21 May 2027	**€2,650.–**
Online Confirmed dates	17 May 2027	21 May 2027	**€1,250.–**
Amsterdam Confirmed dates	7 Jun 2027	11 Jun 2027	**€2,540.–**
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**€1,250.–**
Barcelona Confirmed dates	14 Jun 2027	18 Jun 2027	**€2,840.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.-**
Singapore Confirmed dates	21 Jun 2027	25 Jun 2027	**€2,820.-**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**€1,250.-**
London Confirmed dates	5 Jul 2027	9 Jul 2027	**€2,450.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**€1,250.-**
Dubai Confirmed dates	19 Jul 2027	23 Jul 2027	**€3,150.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**€1,250.-**
Frankfurt Confirmed dates	2 Aug 2027	6 Aug 2027	**€2,650.-**
Online Confirmed dates	2 Aug 2027	6 Aug 2027	**€1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Kuala Lumpur Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,450.-**
Online Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,250.-**
Rome Confirmed dates	23 Aug 2027	27 Aug 2027	**€2,450.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**€1,250.-**
Paris Confirmed dates	6 Sept 2027	10 Sept 2027	**€2,860.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Istanbul Confirmed dates	20 Sept 2027	24 Sept 2027	**€2,650.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.-**
Amsterdam Confirmed dates	4 Oct 2027	8 Oct 2027	**€2,540.-**



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Dates, venues and fees (continued)

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Online Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,250.-**
Singapore Confirmed dates	18 Oct 2027	22 Oct 2027	**€2,820.-**
Online Confirmed dates	18 Oct 2027	22 Oct 2027	**€1,250.-**
Rome Confirmed dates	25 Oct 2027	29 Oct 2027	**€2,450.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**€1,250.-**
London Confirmed dates	1 Nov 2027	5 Nov 2027	**€2,450.-**
Online Confirmed dates	1 Nov 2027	5 Nov 2027	**€1,250.-**
Dubai Confirmed dates	15 Nov 2027	19 Nov 2027	**€3,150.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**€1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Frankfurt Confirmed dates	6 Dec 2027	10 Dec 2027	**€2,650.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	13 Dec 2027	17 Dec 2027	**€1,450.-**
Online Confirmed dates	13 Dec 2027	17 Dec 2027	**€1,250.-**

Plan your next step

Dates, availability, exact venue, taxes, inclusions and payment terms require written confirmation. This brochure is not a quotation, registration, booking confirmation or visa invitation. Participants receive a Smart Horizon certificate of attendance; programmes are not externally accredited and do not award a professional qualification or designation. Confirm arrangements before booking travel.

For group or in-house training, contact our learning team to discuss your objectives and delivery arrangements.

Contact Smart Horizon

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View the latest course details online