

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Failure Modes and Effects Analysis for Equipment

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Failure Modes and Effects Analysis helps engineers anticipate how equipment can fail and what the consequences would be. This course teaches equipment FMEA: defining systems and functions, identifying failure modes, causes and effects, rating severity, occurrence and detection, prioritising risks and selecting maintenance and design actions.

Preventing failures is far cheaper than repairing them. You will learn a structured method to reduce equipment risk.

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

FMEA worksheets on real equipment, team workshops, case studies and action planning.

Course objectives

By the end of this course, participants will be able to:
- Explain the purpose and types of FMEA
- Define equipment functions and boundaries
- Identify failure modes, causes and effects
- Rate severity, occurrence and detection
- Prioritise risks using RPN and criticality
- Define maintenance and design actions

Target audience

This course is suitable for:
- Reliability and maintenance engineers
- Maintenance planners
- Design and process engineers
- Operations supervisors
- Asset managers



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Target competencies

Participants will develop competencies in:

- Failure analysis
- Risk rating
- Team facilitation
- Maintenance strategy
- Documentation

Course outline

Day 1: FMEA Foundations

09:00–10:08	Purpose and history
10:08–11:00	Types of FMEA
11:00–11:30	**Coffee break**
11:30–11:45	Types of FMEA (continued)
11:45–12:53	Team roles
12:53–14:00	Exercise

Day 2: Functions and Boundaries

09:00–10:08	System definition
10:08–11:00	Functions and failures
11:00–11:30	**Coffee break**
11:30–11:45	Functions and failures (continued)
11:45–12:53	Block diagrams
12:53–14:00	Workshop

Day 3: Failure Modes

09:00–10:08	Modes, causes and effects
10:08–11:00	Failure data sources
11:00–11:30	**Coffee break**



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11:30–11:45	Failure data sources (continued)
11:45–12:53	Worksheet practice
12:53–14:00	Exercise

Day 4: Rating and Prioritising

09:00–10:08	Severity, occurrence and detection
10:08–11:00	RPN and criticality
11:00–11:30	**Coffee break**
11:30–11:45	RPN and criticality (continued)
11:45–12:53	Prioritisation
12:53–14:00	Case study

Day 5: Actions

09:00–10:08	Maintenance tasks
10:08–11:00	Design changes
11:00–11:30	**Coffee break**
11:30–11:45	Design changes (continued)
11:45–12:53	Follow-up
12:53–14:00	Action plan

The timings provided are estimates and may vary depending on the number of participants and the discussions taking place during the sessions. They are indicative only and do not constitute a binding commitment.



Course content

Dates, venues and fees

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

Venue	Start date	End date	Fee (EUR)
Rome Confirmed dates	16 Nov 2026	20 Nov 2026	**€4,900.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**€1,250.–**
Vienna Confirmed dates	7 Dec 2026	11 Dec 2026	**€5,880.–**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.–**
Paris Confirmed dates	11 Jan 2027	15 Jan 2027	**€5,720.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Vienna Confirmed dates	1 Feb 2027	5 Feb 2027	**€5,880.–**
Online Confirmed dates	1 Feb 2027	5 Feb 2027	**€1,250.–**
Frankfurt Confirmed dates	15 Feb 2027	19 Feb 2027	**€5,300.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**€1,250.–**
London Confirmed dates	8 Mar 2027	12 Mar 2027	**€4,900.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.–**
Barcelona Confirmed dates	29 Mar 2027	2 Apr 2027	**€5,680.–**
Online Confirmed dates	29 Mar 2027	2 Apr 2027	**€1,250.–**
Dubai Confirmed dates	19 Apr 2027	23 Apr 2027	**€6,300.–**
Online Confirmed dates	19 Apr 2027	23 Apr 2027	**€1,250.–**
London Confirmed dates	10 May 2027	14 May 2027	**€4,900.–**
Online Confirmed dates	10 May 2027	14 May 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Istanbul Confirmed dates	24 May 2027	28 May 2027	**€5,300.-**
Online Confirmed dates	24 May 2027	28 May 2027	**€1,250.-**
Barcelona Confirmed dates	14 Jun 2027	18 Jun 2027	**€5,680.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.-**
Rome Confirmed dates	5 Jul 2027	9 Jul 2027	**€4,900.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**€1,250.-**
Dubai Confirmed dates	26 Jul 2027	30 Jul 2027	**€6,300.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,250.-**
Amsterdam Confirmed dates	16 Aug 2027	20 Aug 2027	**€5,080.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	16 Aug 2027	20 Aug 2027	**€1,250.-**
Cape Town Confirmed dates	30 Aug 2027	3 Sept 2027	**€3,780.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**€1,250.-**
Kuala Lumpur Confirmed dates	20 Sept 2027	24 Sept 2027	**€2,900.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.-**
Rome Confirmed dates	11 Oct 2027	15 Oct 2027	**€4,900.-**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.-**
Cape Town Confirmed dates	1 Nov 2027	5 Nov 2027	**€3,780.-**
Online Confirmed dates	1 Nov 2027	5 Nov 2027	**€1,250.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Dubai Confirmed dates	22 Nov 2027	26 Nov 2027	**€6,300.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
Cape Town Confirmed dates	6 Dec 2027	10 Dec 2027	**€3,780.-**
Online Confirmed dates	6 Dec 2027	10 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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