

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Reliability-Centred Maintenance (RCM)

5 days | Classroom training | English

SMART HORIZON

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Course content

Why attend

Reliability-centred maintenance is a structured method for deciding what maintenance each asset needs to deliver its required function safely and cost-effectively. This course explains RCM principles and guides participants through functional analysis, failure modes and effects analysis, consequence evaluation and selection of maintenance tasks, including condition monitoring, scheduled restoration, replacement and run-to-failure. Participants apply RCM to an equipment case and learn how to implement and sustain RCM programmes.

Many maintenance programmes are based on manufacturer recommendations or habit, leading to unnecessary work on some equipment and unexpected failures on others. RCM helps you focus maintenance effort where it matters most, improving availability, safety and cost.

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 combines theory with practical FMEA workshops, decision diagram exercises, case studies from process and manufacturing plants and implementation planning.

Course objectives

By the end of this course, participants will be able to:
• Explain the principles and benefits of RCM
• Define asset functions, functional failures and operating context
• Perform failure modes and effects analysis
• Evaluate failure consequences for safety, environment and operations
• Select appropriate maintenance tasks and intervals
• Plan, implement and review an RCM programme



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Target audience

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

Target competencies

Participants will develop competencies in:
- Functional analysis
- FMEA
- Failure consequence evaluation
- Maintenance task selection
- Condition-based maintenance
- Reliability improvement

Course outline

Day 1: RCM Fundamentals

09:00–09:54	Evolution of maintenance strategies
09:54–10:48	Failure patterns and their implications
10:48–11:00	The seven RCM questions
11:00–11:30	**Coffee break**
11:30–12:12	The seven RCM questions (continued)
12:12–13:06	Benefits and challenges of RCM
13:06–14:00	Exercise: Reviewing an existing maintenance plan

Day 2: Functions and Functional Failures

09:00–09:54	Operating context
09:54–10:48	Primary and secondary functions
10:48–11:00	Performance standards



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11:00–11:30	**Coffee break**
11:30–12:12	Performance standards (continued)
12:12–13:06	Functional failures
13:06–14:00	Workshop: Functional analysis of a pump system

Day 3: Failure Modes and Effects

09:00–09:54	Identifying failure modes
09:54–10:48	Failure effects and evidence
10:48–11:00	Criticality assessment
11:00–11:30	**Coffee break**
11:30–12:12	Criticality assessment (continued)
12:12–13:06	Using failure data
13:06–14:00	Workshop: FMEA for the case equipment

Day 4: Consequences and Task Selection

09:00–09:54	Hidden, safety, environmental, operational and non-operational consequences
09:54–10:48	RCM decision diagram
10:48–11:00	Condition monitoring, restoration and replacement tasks
11:00–11:30	**Coffee break**
11:30–12:12	Condition monitoring, restoration and replacement tasks (continued)
12:12–13:06	Failure-finding tasks and default actions
13:06–14:00	Exercise: Selecting maintenance tasks

Day 5: Implementing RCM

09:00–09:54	Selecting assets for RCM analysis
09:54–10:48	Team composition and facilitation
10:48–11:00	Integrating results into the CMMS



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11:00–11:30	**Coffee break**
11:30–12:12	Integrating results into the CMMS (continued)
12:12–13:06	Measuring results and living RCM
13:06–14:00	Capstone: RCM implementation 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.

Dates, venues and fees

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

Venue	Start date	End date	Fee (EUR)
Istanbul Confirmed dates	9 Nov 2026	13 Nov 2026	**€5,300.-**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**€1,250.-**
Amsterdam Confirmed dates	23 Nov 2026	27 Nov 2026	**€5,080.-**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**€1,250.-**
Singapore Confirmed dates	7 Dec 2026	11 Dec 2026	**€5,640.-**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
London Confirmed dates	14 Dec 2026	18 Dec 2026	**€4,900.–**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**€1,250.–**
Cape Town Confirmed dates	4 Jan 2027	8 Jan 2027	**€3,780.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**€1,250.–**
Dubai Confirmed dates	11 Jan 2027	15 Jan 2027	**€6,300.–**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**€1,250.–**
Frankfurt Confirmed dates	25 Jan 2027	29 Jan 2027	**€5,300.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	8 Feb 2027	12 Feb 2027	**€2,900.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**€1,250.–**
Paris Confirmed dates	22 Feb 2027	26 Feb 2027	**€5,720.–**
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**€1,250.–**
Istanbul Confirmed dates	8 Mar 2027	12 Mar 2027	**€5,300.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**€1,250.–**
Cape Town Confirmed dates	15 Mar 2027	19 Mar 2027	**€3,780.–**
Online Confirmed dates	15 Mar 2027	19 Mar 2027	**€1,250.–**
Amsterdam Confirmed dates	22 Mar 2027	26 Mar 2027	**€5,080.–**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Singapore Confirmed dates	12 Apr 2027	16 Apr 2027	**€5,640.-**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**€1,250.-**
London Confirmed dates	26 Apr 2027	30 Apr 2027	**€4,900.-**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**€1,250.-**
Dubai Confirmed dates	10 May 2027	14 May 2027	**€6,300.-**
Online Confirmed dates	10 May 2027	14 May 2027	**€1,250.-**
Rome Confirmed dates	17 May 2027	21 May 2027	**€4,900.-**
Online Confirmed dates	17 May 2027	21 May 2027	**€1,250.-**
Frankfurt Confirmed dates	24 May 2027	28 May 2027	**€5,300.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	24 May 2027	28 May 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	14 Jun 2027	18 Jun 2027	**€2,900.–**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**€1,250.–**
Paris Confirmed dates	21 Jun 2027	25 Jun 2027	**€5,720.–**
Online Confirmed dates	21 Jun 2027	25 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.–**
Istanbul Confirmed dates	12 Jul 2027	16 Jul 2027	**€5,300.–**
Online Confirmed dates	12 Jul 2027	16 Jul 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Amsterdam Confirmed dates	26 Jul 2027	30 Jul 2027	**€5,080.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**€1,250.-**
Singapore Confirmed dates	9 Aug 2027	13 Aug 2027	**€5,640.-**
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**€1,250.-**
London Confirmed dates	23 Aug 2027	27 Aug 2027	**€4,900.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**€1,250.-**
Vienna Confirmed dates	6 Sept 2027	10 Sept 2027	**€5,880.-**
Online Confirmed dates	6 Sept 2027	10 Sept 2027	**€1,250.-**
Dubai Confirmed dates	13 Sept 2027	17 Sept 2027	**€6,300.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.–**
Frankfurt Confirmed dates	20 Sept 2027	24 Sept 2027	**€5,300.–**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**€1,250.–**
Kuala Lumpur Confirmed dates	11 Oct 2027	15 Oct 2027	**€2,900.–**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**€1,250.–**
Paris Confirmed dates	25 Oct 2027	29 Oct 2027	**€5,720.–**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**€1,250.–**
Istanbul Confirmed dates	8 Nov 2027	12 Nov 2027	**€5,300.–**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,250.–**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Barcelona Confirmed dates	15 Nov 2027	19 Nov 2027	**€5,680.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**€1,250.-**
Amsterdam Confirmed dates	22 Nov 2027	26 Nov 2027	**€5,080.-**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**€1,250.-**
Singapore Confirmed dates	6 Dec 2027	10 Dec 2027	**€5,640.-**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**€1,250.-**
London Confirmed dates	13 Dec 2027	17 Dec 2027	**€4,900.-**
Online Confirmed dates	13 Dec 2027	17 Dec 2027	**€1,250.-**



Course content

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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