

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Predictive Maintenance and Condition Monitoring

5 days | Classroom training | English

SMART HORIZON

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London W2 6BD, United Kingdom

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Course content

Why attend

Predictive maintenance uses condition data to repair equipment just before it fails. This course covers condition monitoring techniques such as vibration, thermography, oil analysis and ultrasound, setting alarm limits, data trending, integrating with maintenance planning, sensors and IoT, and building a predictive maintenance programme.

Time-based maintenance either fixes healthy equipment or misses failures. You will learn to maintain based on actual condition.

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

Technique demonstrations, data interpretation exercises, case studies and programme design.

Course objectives

By the end of this course, participants will be able to:
• Explain the P-F curve and predictive maintenance concepts
• Select condition monitoring techniques
• Set monitoring frequencies and alarm limits
• Interpret condition data and trends
• Integrate findings into maintenance planning
• Build a predictive maintenance programme

Target audience

This course is suitable for:
• Maintenance and reliability engineers
• Condition monitoring technicians
• Maintenance planners
• Plant engineers
• Asset managers



Course content

Target competencies

Participants will develop competencies in:

- Condition monitoring
- Data interpretation
- Programme design
- Planning integration
- Technology selection

Course outline

Day 1: Predictive Maintenance

09:00–10:08	Maintenance strategies
10:08–11:00	P-F curve
11:00–11:30	**Coffee break**
11:30–11:45	P-F curve (continued)
11:45–12:53	Benefits
12:53–14:00	Exercise

Day 2: Techniques

09:00–10:08	Vibration
10:08–11:00	Thermography
11:00–11:30	**Coffee break**
11:30–11:45	Thermography (continued)
11:45–12:53	Oil analysis and ultrasound
12:53–14:00	Demonstration

Day 3: Data

09:00–10:08	Frequencies and limits
10:08–11:00	Trending
11:00–11:30	**Coffee break**



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11:30–11:45	Trending (continued)
11:45–12:53	Diagnosis
12:53–14:00	Exercise

Day 4: Technology

09:00–10:08	Online sensors
10:08–11:00	IoT and analytics
11:00–11:30	**Coffee break**
11:30–11:45	IoT and analytics (continued)
11:45–12:53	Selection
12:53–14:00	Case study

Day 5: Programme

09:00–10:08	Planning integration
10:08–11:00	Metrics
11:00–11:30	**Coffee break**
11:30–11:45	Metrics (continued)
11:45–12:53	Roadmap
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 GBP, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (GBP)
Dubai Confirmed dates	16 Nov 2026	20 Nov 2026	**£6,300.–**
Online Confirmed dates	16 Nov 2026	20 Nov 2026	**£1,250.–**
Kuala Lumpur Confirmed dates	30 Nov 2026	4 Dec 2026	**£2,900.–**
Online Confirmed dates	30 Nov 2026	4 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.–**
Frankfurt Confirmed dates	25 Jan 2027	29 Jan 2027	**£5,300.–**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**£1,250.–**
Cape Town Confirmed dates	15 Feb 2027	19 Feb 2027	**£3,780.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	15 Feb 2027	19 Feb 2027	**£1,250.–**
Vienna Confirmed dates	8 Mar 2027	12 Mar 2027	**£5,880.–**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**£1,250.–**
Dubai Confirmed dates	22 Mar 2027	26 Mar 2027	**£6,300.–**
Online Confirmed dates	22 Mar 2027	26 Mar 2027	**£1,250.–**
Rome Confirmed dates	12 Apr 2027	16 Apr 2027	**£4,900.–**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**£1,250.–**
Barcelona Confirmed dates	3 May 2027	7 May 2027	**£5,680.–**
Online Confirmed dates	3 May 2027	7 May 2027	**£1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
London Confirmed dates	24 May 2027	28 May 2027	**£4,900.-**
Online Confirmed dates	24 May 2027	28 May 2027	**£1,250.-**
Vienna Confirmed dates	14 Jun 2027	18 Jun 2027	**£5,880.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,250.-**
Rome Confirmed dates	28 Jun 2027	2 Jul 2027	**£4,900.-**
Online Confirmed dates	28 Jun 2027	2 Jul 2027	**£1,250.-**
Istanbul Confirmed dates	19 Jul 2027	23 Jul 2027	**£5,300.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**£1,250.-**
Cape Town Confirmed dates	9 Aug 2027	13 Aug 2027	**£3,780.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**£1,250.-**
Amsterdam Confirmed dates	30 Aug 2027	3 Sept 2027	**£5,080.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**£1,250.-**
London Confirmed dates	20 Sept 2027	24 Sept 2027	**£4,900.-**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,250.-**
Dubai Confirmed dates	4 Oct 2027	8 Oct 2027	**£6,300.-**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**£1,250.-**
Rome Confirmed dates	25 Oct 2027	29 Oct 2027	**£4,900.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**£1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Paris Confirmed dates	15 Nov 2027	19 Nov 2027	**£5,720.-**
Online Confirmed dates	15 Nov 2027	19 Nov 2027	**£1,250.-**
Barcelona Confirmed dates	6 Dec 2027	10 Dec 2027	**£5,680.-**
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 UK 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