

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Asset Integrity Management

5 days | Classroom training | English

SMART HORIZON

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London W2 6BD, United Kingdom

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Course content

Why attend

Asset integrity management ensures that equipment and facilities perform their required functions effectively and efficiently while protecting people, the environment and the business. This course covers the principles and practices of integrity management in oil and gas, petrochemical, power and process industries, including design integrity, risk-based inspection, corrosion management, safety-critical elements, management of change and integrity performance indicators. Participants develop an integrity management framework suitable for their facilities.

Loss of containment and major equipment failures can have severe safety, environmental and financial consequences. This course gives you a structured, risk-based approach to managing integrity throughout the asset life cycle and demonstrating control to regulators and stakeholders.

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

Learning combines technical presentations, case studies of major incidents, risk-based inspection exercises, integrity performance indicator workshops and framework development activities.

Course objectives

By the end of this course, participants will be able to:
• Explain the principles and life cycle of asset integrity management
• Identify safety-critical elements and performance standards
• Apply risk-based inspection and corrosion management
• Manage technical integrity through operations and maintenance
• Control change, deviations and ageing assets
• Monitor integrity performance with leading and lagging indicators



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Target audience

This course is suitable for:
• Asset integrity engineers and managers
• Inspection and corrosion engineers
• Maintenance and reliability engineers
• HSE and process safety professionals
• Operations managers in process industries

Target competencies

Participants will develop competencies in:
• Integrity management systems
• Safety-critical elements
• Risk-based inspection
• Corrosion management
• Management of change
• Integrity performance monitoring

Course outline

Day 1: Asset Integrity Fundamentals

09:00–09:54	Definition and scope of asset integrity
09:54–10:48	Design, technical and operational integrity
10:48–11:00	Lessons from major incidents
11:00–11:30	**Coffee break**
11:30–12:12	Lessons from major incidents (continued)
12:12–13:06	Regulatory and standards framework
13:06–14:00	Exercise: Integrity risk review

Day 2: Safety-Critical Elements

09:00–09:54	Identifying major accident hazards
09:54–10:48	Safety-critical elements and barriers
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	Verification schemes
13:06–14:00	Workshop: Defining performance standards

Day 3: Inspection and Corrosion Management

09:00–09:54	Damage mechanisms
09:54–10:48	Risk-based inspection methodology
10:48–11:00	Corrosion monitoring and mitigation
11:00–11:30	**Coffee break**
11:30–12:12	Corrosion monitoring and mitigation (continued)
12:12–13:06	Inspection data management
13:06–14:00	Exercise: Risk-based inspection planning

Day 4: Operating with Integrity

09:00–09:54	Maintenance of safety-critical equipment
09:54–10:48	Management of change and deviations
10:48–11:00	Ageing assets and life extension
11:00–11:30	**Coffee break**
11:30–12:12	Ageing assets and life extension (continued)
12:12–13:06	Competence and organisational factors
13:06–14:00	Case study: Integrity failure investigation

Day 5: Integrity Management Systems

09:00–09:54	Key performance indicators
09:54–10:48	Audits and assurance
10:48–11:00	Integrity reporting to management



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11:00–11:30	**Coffee break**
11:30–12:12	Integrity reporting to management (continued)
12:12–13:06	Continuous improvement
13:06–14:00	Capstone: Asset integrity management framework

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 GBP, excluding unconfirmed taxes.

Venue	Start date	End date	Fee (GBP)
Singapore Confirmed dates	9 Nov 2026	13 Nov 2026	**£5,640.-**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**£1,250.-**
London Confirmed dates	23 Nov 2026	27 Nov 2026	**£4,900.-**
Online Confirmed dates	23 Nov 2026	27 Nov 2026	**£1,250.-**
Dubai Confirmed dates	7 Dec 2026	11 Dec 2026	**£6,300.-**
Online Confirmed dates	7 Dec 2026	11 Dec 2026	**£1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Frankfurt Confirmed dates	14 Dec 2026	18 Dec 2026	**£5,300.-**
Online Confirmed dates	14 Dec 2026	18 Dec 2026	**£1,250.-**
Vienna Confirmed dates	4 Jan 2027	8 Jan 2027	**£5,880.-**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**£1,250.-**
Kuala Lumpur Confirmed dates	11 Jan 2027	15 Jan 2027	**£2,900.-**
Online Confirmed dates	11 Jan 2027	15 Jan 2027	**£1,250.-**
Paris Confirmed dates	25 Jan 2027	29 Jan 2027	**£5,720.-**
Online Confirmed dates	25 Jan 2027	29 Jan 2027	**£1,250.-**
Istanbul Confirmed dates	8 Feb 2027	12 Feb 2027	**£5,300.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	8 Feb 2027	12 Feb 2027	**£1,250.-**
Amsterdam Confirmed dates	22 Feb 2027	26 Feb 2027	**£5,080.-**
Online Confirmed dates	22 Feb 2027	26 Feb 2027	**£1,250.-**
Rome Confirmed dates	1 Mar 2027	5 Mar 2027	**£4,900.-**
Online Confirmed dates	1 Mar 2027	5 Mar 2027	**£1,250.-**
Singapore Confirmed dates	8 Mar 2027	12 Mar 2027	**£5,640.-**
Online Confirmed dates	8 Mar 2027	12 Mar 2027	**£1,250.-**
London Confirmed dates	22 Mar 2027	26 Mar 2027	**£4,900.-**
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 (GBP)
Dubai Confirmed dates	12 Apr 2027	16 Apr 2027	**£6,300.-**
Online Confirmed dates	12 Apr 2027	16 Apr 2027	**£1,250.-**
Frankfurt Confirmed dates	26 Apr 2027	30 Apr 2027	**£5,300.-**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**£1,250.-**
Cape Town Confirmed dates	3 May 2027	7 May 2027	**£3,780.-**
Online Confirmed dates	3 May 2027	7 May 2027	**£1,250.-**
Kuala Lumpur Confirmed dates	10 May 2027	14 May 2027	**£2,900.-**
Online Confirmed dates	10 May 2027	14 May 2027	**£1,250.-**
Paris Confirmed dates	24 May 2027	28 May 2027	**£5,720.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	24 May 2027	28 May 2027	**£1,250.-**
Istanbul Confirmed dates	14 Jun 2027	18 Jun 2027	**£5,300.-**
Online Confirmed dates	14 Jun 2027	18 Jun 2027	**£1,250.-**
Amsterdam Confirmed dates	21 Jun 2027	25 Jun 2027	**£5,080.-**
Online Confirmed dates	21 Jun 2027	25 Jun 2027	**£1,250.-**
Barcelona Confirmed dates	5 Jul 2027	9 Jul 2027	**£5,680.-**
Online Confirmed dates	5 Jul 2027	9 Jul 2027	**£1,250.-**
Singapore Confirmed dates	12 Jul 2027	16 Jul 2027	**£5,640.-**
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 (GBP)
London Confirmed dates	26 Jul 2027	30 Jul 2027	**£4,900.-**
Online Confirmed dates	26 Jul 2027	30 Jul 2027	**£1,250.-**
Dubai Confirmed dates	9 Aug 2027	13 Aug 2027	**£6,300.-**
Online Confirmed dates	9 Aug 2027	13 Aug 2027	**£1,250.-**
Frankfurt Confirmed dates	23 Aug 2027	27 Aug 2027	**£5,300.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**£1,250.-**
Rome Confirmed dates	30 Aug 2027	3 Sept 2027	**£4,900.-**
Online Confirmed dates	30 Aug 2027	3 Sept 2027	**£1,250.-**
Kuala Lumpur Confirmed dates	13 Sept 2027	17 Sept 2027	**£2,900.-**



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Dates, venues and fees (continued)

Venue	Start date	End date	Fee (GBP)
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**£1,250.–**
Paris Confirmed dates	20 Sept 2027	24 Sept 2027	**£5,720.–**
Online Confirmed dates	20 Sept 2027	24 Sept 2027	**£1,250.–**
Istanbul Confirmed dates	11 Oct 2027	15 Oct 2027	**£5,300.–**
Online Confirmed dates	11 Oct 2027	15 Oct 2027	**£1,250.–**
Amsterdam Confirmed dates	25 Oct 2027	29 Oct 2027	**£5,080.–**
Online Confirmed dates	25 Oct 2027	29 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)

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Singapore Confirmed dates	8 Nov 2027	12 Nov 2027	**£5,640.–**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**£1,250.–**
London Confirmed dates	22 Nov 2027	26 Nov 2027	**£4,900.–**
Online Confirmed dates	22 Nov 2027	26 Nov 2027	**£1,250.–**
Dubai Confirmed dates	6 Dec 2027	10 Dec 2027	**£6,300.–**
Online Confirmed dates	6 Dec 2027	10 Dec 2027	**£1,250.–**
Frankfurt Confirmed dates	13 Dec 2027	17 Dec 2027	**£5,300.–**
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 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