

MAINTENANCE AND ENGINEERING | COURSE BROCHURE

Corrosion Control and Cathodic Protection

5 days | Classroom training | English

SMART HORIZON

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Amsterdam
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Course content

Why attend

Corrosion silently destroys pipelines, tanks, structures and equipment. This course covers corrosion mechanisms, corrosion control strategies, coatings, inhibitors, material selection, cathodic protection design and operation, monitoring and inspection, and corrosion management programmes.

Corrosion costs industry billions and causes major failures. You will learn effective methods to control it.

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

Technical sessions, cathodic protection calculations, case studies and inspection data interpretation.

Course objectives

By the end of this course, participants will be able to:
• Explain corrosion mechanisms and forms
• Select corrosion control methods
• Specify and inspect protective coatings
• Design and operate cathodic protection systems
• Monitor corrosion and interpret data
• Build a corrosion management programme

Target audience

This course is suitable for:
• Corrosion and integrity engineers
• Maintenance engineers
• Pipeline and tank engineers
• Inspectors
• Asset managers



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Target competencies

Participants will develop competencies in:

- Corrosion assessment
- Coating management
- Cathodic protection
- Monitoring
- Programme management

Course outline

Day 1: Corrosion Mechanisms

09:00–10:08	Electrochemistry basics
10:08–11:00	Forms of corrosion
11:00–11:30	**Coffee break**
11:30–11:45	Forms of corrosion (continued)
11:45–12:53	Environments
12:53–14:00	Exercise

Day 2: Control Methods

09:00–10:08	Materials
10:08–11:00	Inhibitors
11:00–11:30	**Coffee break**
11:30–11:45	Inhibitors (continued)
11:45–12:53	Design
12:53–14:00	Workshop

Day 3: Coatings

09:00–10:08	Coating systems
10:08–11:00	Surface preparation
11:00–11:30	**Coffee break**



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11:30–11:45	Surface preparation (continued)
11:45–12:53	Inspection
12:53–14:00	Exercise

Day 4: Cathodic Protection

09:00–10:08	Principles
10:08–11:00	Sacrificial and impressed current
11:00–11:30	**Coffee break**
11:30–11:45	Sacrificial and impressed current (continued)
11:45–12:53	Surveys
12:53–14:00	Calculation exercise

Day 5: Corrosion Management

09:00–10:08	Monitoring
10:08–11:00	Data interpretation
11:00–11:30	**Coffee break**
11:30–11:45	Data interpretation (continued)
11:45–12:53	Programmes
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)
Vienna Confirmed dates	9 Nov 2026	13 Nov 2026	**€5,880.–**
Online Confirmed dates	9 Nov 2026	13 Nov 2026	**€1,250.–**
Rome Confirmed dates	30 Nov 2026	4 Dec 2026	**€4,900.–**
Online Confirmed dates	30 Nov 2026	4 Dec 2026	**€1,250.–**
Istanbul Confirmed dates	4 Jan 2027	8 Jan 2027	**€5,300.–**
Online Confirmed dates	4 Jan 2027	8 Jan 2027	**€1,250.–**
Dubai Confirmed dates	18 Jan 2027	22 Jan 2027	**€6,300.–**
Online Confirmed dates	18 Jan 2027	22 Jan 2027	**€1,250.–**
London Confirmed dates	8 Feb 2027	12 Feb 2027	**€4,900.–**



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	1 Mar 2027	5 Mar 2027	**€5,720.–**
Online Confirmed dates	1 Mar 2027	5 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.–**
Kuala Lumpur Confirmed dates	26 Apr 2027	30 Apr 2027	**€2,900.–**
Online Confirmed dates	26 Apr 2027	30 Apr 2027	**€1,250.–**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Dubai Confirmed dates	17 May 2027	21 May 2027	**€6,300.-**
Online Confirmed dates	17 May 2027	21 May 2027	**€1,250.-**
Cape Town Confirmed dates	7 Jun 2027	11 Jun 2027	**€3,780.-**
Online Confirmed dates	7 Jun 2027	11 Jun 2027	**€1,250.-**
London Confirmed dates	28 Jun 2027	2 Jul 2027	**€4,900.-**
Online Confirmed dates	28 Jun 2027	2 Jul 2027	**€1,250.-**
Vienna Confirmed dates	19 Jul 2027	23 Jul 2027	**€5,880.-**
Online Confirmed dates	19 Jul 2027	23 Jul 2027	**€1,250.-**
Cape Town Confirmed dates	2 Aug 2027	6 Aug 2027	**€3,780.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Online Confirmed dates	2 Aug 2027	6 Aug 2027	**€1,250.-**
Barcelona Confirmed dates	23 Aug 2027	27 Aug 2027	**€5,680.-**
Online Confirmed dates	23 Aug 2027	27 Aug 2027	**€1,250.-**
Rome Confirmed dates	13 Sept 2027	17 Sept 2027	**€4,900.-**
Online Confirmed dates	13 Sept 2027	17 Sept 2027	**€1,250.-**
Cape Town Confirmed dates	4 Oct 2027	8 Oct 2027	**€3,780.-**
Online Confirmed dates	4 Oct 2027	8 Oct 2027	**€1,250.-**
Barcelona Confirmed dates	25 Oct 2027	29 Oct 2027	**€5,680.-**
Online Confirmed dates	25 Oct 2027	29 Oct 2027	**€1,250.-**



Course content

Dates, venues and fees (continued)

Venue	Start date	End date	Fee (EUR)
Frankfurt Confirmed dates	8 Nov 2027	12 Nov 2027	**€5,300.-**
Online Confirmed dates	8 Nov 2027	12 Nov 2027	**€1,250.-**
Amsterdam Confirmed dates	29 Nov 2027	3 Dec 2027	**€5,080.-**
Online Confirmed dates	29 Nov 2027	3 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