



MAINTENANCE AND ENGINEERING | ME-027

Cathodic Protection Systems

Contact

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Course content

Why Attend

Cathodic protection prevents corrosion of buried and submerged steel structures such as pipelines, tanks and marine structures. Poorly designed or maintained systems allow costly corrosion damage.

This Aractech course covers corrosion and cathodic protection principles, galvanic and impressed current systems, design basics, installation, monitoring and surveys, interference, troubleshooting and maintenance. Participants interpret CP survey data.

Course Methodology

- Technical lectures
- Design exercises
- Survey data interpretation
- Case studies
- Group discussions

Course Objectives

- Explain cathodic protection principles
- Compare galvanic and impressed current systems
- Understand CP design basics
- Monitor and survey CP systems
- Identify and mitigate interference
- Troubleshoot and maintain CP systems

Target Audience

- Corrosion engineers
- Pipeline integrity engineers

Course content

- Maintenance engineers
- CP technicians

Course outline

Detailed course outline

Day-by-day outline for Cathodic Protection Systems.

Day 1 - Corrosion and CP Principles

- 09:00-09:45 | Corrosion basics
- 09:45-10:30 | CP theory
- 10:30-11:00 | Criteria
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Criteria (continued)
- 11:45-12:30 | Coatings and CP
- 12:30-14:00 | Exercise: Potential measurement

Day 2 - CP Systems

- 09:00-09:45 | Galvanic anodes
- 09:45-10:30 | Impressed current
- 10:30-11:00 | Components
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Components (continued)
- 11:45-12:30 | Applications
- 12:30-14:00 | Workshop: System selection

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Day 3 - Design Basics

- 09:00-09:39 | Current requirements
- 09:39-10:56 | Anode design
- 10:56-11:00 | Rectifiers
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Rectifiers (continued)
- 12:05-12:43 | Installation
- 12:43-14:00 | Lab: Design calculation

Day 4 - Monitoring and Surveys

- 09:00-09:45 | Test points
- 09:45-10:30 | Surveys
- 10:30-11:00 | Data interpretation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Data interpretation (continued)
- 11:45-12:30 | Interference
- 12:30-14:00 | Exercise: Survey analysis

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Day 5 - Maintenance and Troubleshooting

- 09:00-09:54 | Maintenance
- 09:54-10:48 | Common faults
- 10:48-11:00 | Troubleshooting
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Troubleshooting (continued)
- 12:12-13:06 | Records
- 13:06-14:00 | Capstone: CP management plan

Seminar dates

Available seminar dates

Live dates and pricing for Cathodic Protection Systems generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Barcelona	Classroom	€2,815
14 - 18 December 2026	Kuala lumpur	Classroom	€1,925
18 - 22 January 2027	Munich	Classroom	€3,225
15 - 19 February 2027	Cape Town	Classroom	€1,625
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Paris	Classroom	€3,825
17 - 21 May 2027	Geneva	Classroom	€4,315
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Kuala lumpur	Classroom	€1,925
16 - 20 August 2027	Munich	Classroom	€3,225

Seminar dates

Available seminar dates

Live dates and pricing for Cathodic Protection Systems generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	Vienna	Classroom	€3,225
18 - 22 October 2027	Barcelona	Classroom	€2,815
15 - 19 November 2027	Paris	Classroom	€3,825
20 - 24 December 2027	Geneva	Classroom	€4,315
9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

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Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
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