Garnet
Garnet Global Training Center

GGT-CR-101

Corrosion, Coatings & Materials

Corrosion Engineering Fundamentals

أساسيات هندسة التآكل

Duration	Language	Formats	Hours	Level
5 or 10 days	**English or Arabic**	**Classroom, online, in-house**	**35 / 70**	**Foundation**

Overview

Corrosion Engineering Fundamentals is designed for people who are new to the subject, or who need a structured refresher before taking on more responsibility. Understand why materials fail and how to protect assets with the right materials, coatings and cathodic protection. Choose 5 or 10 days, classroom or live online, English or Arabic; organisations can also run it in-house and adapt the examples to their own work.

What you will be able to do

- Explain the key concepts, terms and standards of Corrosion Engineering Fundamentals.
- Know when to escalate and who to involve.
- Communicate confidently with specialists and colleagues.
- Plan the next steps in your own learning.
- Recognise the main hazards, errors and misconceptions newcomers face.

Who should attend

Corrosion, materials, integrity and coating engineers, inspectors and maintenance staff. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

Key topics

- Corrosion mechanisms
- Materials selection
- Coatings and linings
- Cathodic protection
- Monitoring and inspection
- Failure analysis cases

Formats and fees

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house	**Quotation per group**

Fees per participant, excluding VAT.

Register or ask

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Email: info@garnettrainings.com

Training: training@garnettrainings.com

Web: garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

5-day outline

Day 1 Introduction to Corrosion Engineering Fundamentals

- Failure analysis cases
- Regional and international case studies

Day 2 Core concepts and terminology

- Corrosion mechanisms
- Materials selection

Day 3 Basic methods and tools

- Coatings and linings
- Checklists and templates to take away

Day 4 Working safely and correctly

- Cathodic protection
- Group discussion and peer review

Day 5 Practical exercises and review

- Monitoring and inspection
- Measurement and reporting

10-day outline

Day 1 Introduction to Corrosion Engineering Fundamentals

- Failure analysis cases
- Regional and international case studies

Day 2 Core concepts and terminology

- Corrosion mechanisms
- Materials selection

Day 3 Basic methods and tools

- Coatings and linings
- Checklists and templates to take away

Day 4 Working safely and correctly

- Cathodic protection
- Group discussion and peer review

Day 5 Practical exercises and review

- Monitoring and inspection
- Measurement and reporting

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Hands-on workshop on a workplace challenge

Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

Day 8 Benchmarking against international practice

- Global performance benchmarks
- Common mistakes and how to avoid them

Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

Schedule 2027–2030

Dates	Format	City	Language	Fee (USD)
18–29 Jan 2027	10-day classroom	Casablanca	English	8,950
5–9 Jul 2027	5-day classroom	Amsterdam	English	4,750
2–6 Aug 2027	5-day online	Live online	Arabic	2,950
20–24 Sep 2027	5-day classroom	London	English	4,750
3–7 Jan 2028	5-day classroom	London	English	4,750
7–11 Feb 2028	5-day classroom	Abu Dhabi	Arabic	4,750
7–18 Aug 2028	10-day online	Live online	English	5,450
4–15 Dec 2028	10-day classroom	Paris	English	8,950
16–20 Apr 2029	5-day classroom	Amsterdam	English	4,750

Dates	Format	City	Language	Fee (USD)
17–28 Sep 2029	10-day classroom	Barcelona	English	8,950
12–16 Nov 2029	5-day online	Live online	English	2,950
9–13 Dec 2029	5-day classroom	Jeddah	Arabic	4,750
15–26 Apr 2030	10-day online	Live online	Arabic	5,450
13–17 May 2030	5-day classroom	Paris	English	4,750
19–23 Aug 2030	5-day classroom	Geneva	English	4,750
16–27 Dec 2030	10-day classroom	Kuala Lumpur	English	8,950

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/