Garnet
Garnet Global Training Center

GGT-CR-117

Corrosion, Coatings & Materials

Metallurgy for Non-Metallurgists

علم المعادن لغير المتخصصين

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

Overview

Metallurgy for Non-Metallurgists gives newcomers and non-specialists a clear, practical grounding: the core concepts, the vocabulary used on the job and the first tools to apply them. Understand why materials fail and how to protect assets with the right materials, coatings and cathodic protection. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Explain the key concepts, terms and standards of Metallurgy for Non-Metallurgists.
- Carry out basic tasks correctly using simple checklists and tools.
- Read and use the documents, forms and data common in this field.
- Know when to escalate and who to involve.
- Communicate confidently with specialists and colleagues.

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

WhatsApp: +971 56 674 7382

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 Metallurgy for Non-Metallurgists
- Cathodic protection
- Checklists and templates to take away

Day 2 Core concepts and terminology
- Monitoring and inspection
- Failure analysis cases

Day 3 Basic methods and tools
- Corrosion mechanisms
- Group discussion and peer review

Day 4 Working safely and correctly
- Materials selection
- Measurement and reporting

Day 5 Practical exercises and review
- Coatings and linings
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Introduction to Metallurgy for Non-Metallurgists
- Cathodic protection
- Checklists and templates to take away

Day 2 Core concepts and terminology
- Monitoring and inspection
- Failure analysis cases

Day 3 Basic methods and tools
- Corrosion mechanisms
- Group discussion and peer review

Day 4 Working safely and correctly
- Materials selection
- Measurement and reporting

Day 5 Practical exercises and review
- Coatings and linings
- Hands-on workshop on a workplace challenge

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Common mistakes and how to avoid them

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
- Regional and international case studies

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)
19–23 Apr 2027	5-day online	Live online	Arabic	2,950
6–10 Sep 2027	5-day classroom	Barcelona	English	4,750
15–19 Nov 2027	5-day classroom	Istanbul	English	4,750
19–30 Dec 2027	10-day classroom	Cairo	English	8,950
3–7 Jan 2028	5-day classroom	Abu Dhabi	Arabic	4,750
9–20 Jul 2028	10-day classroom	Cairo	Arabic	8,950
7–18 Aug 2028	10-day online	Live online	Arabic	5,450
2–6 Oct 2028	5-day classroom	Istanbul	English	4,750
16–20 Apr 2029	5-day classroom	London	English	4,750
6–17 Aug 2029	10-day classroom	Dubai	English	8,950

Dates	Format	City	Language	Fee (USD)
5–9 Nov 2029	5-day classroom	Casablanca	Arabic	4,750
3–7 Dec 2029	5-day online	Live online	Arabic	2,950
15–26 Apr 2030	10-day online	Live online	English	5,450
3–7 Jun 2030	5-day classroom	Geneva	English	4,750
10–14 Nov 2030	5-day classroom	Manama	English	4,750
16–27 Dec 2030	10-day classroom	Abu Dhabi	English	8,950

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