Garnet
Garnet Global Training Center

GGT-CR-130

Corrosion, Coatings & Materials **Rare specialisation** **New from 2029**

Smart Coatings & Nanomaterials

الطلاءات الذكية والمواد النانوية

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

Overview

Smart Coatings & Nanomaterials focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. 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

- Apply the methods and standards of Smart Coatings & Nanomaterials to real tasks.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.

Who should attend

Corrosion, materials, integrity and coating engineers, inspectors and maintenance staff. Practitioners with one to five years of experience benefit most.

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 Smart Coatings & Nanomaterials: principles and standards

- Cathodic protection
- Regional and international case studies

Day 2 Methods and tools in practice

- Monitoring and inspection
- Failure analysis cases

Day 3 Diagnosis and problem solving

- Corrosion mechanisms
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Materials selection
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Coatings and linings
- Measurement and reporting

10-day outline

Day 1 Smart Coatings & Nanomaterials: principles and standards

- Cathodic protection
- Regional and international case studies

Day 2 Methods and tools in practice

- Monitoring and inspection
- Failure analysis cases

Day 3 Diagnosis and problem solving

- Corrosion mechanisms
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Materials selection
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Coatings and linings
- 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)
5–9 Feb 2029	5-day online	Live online	Arabic	2,950
21–25 May 2029	5-day classroom	Paris	English	4,750
9–13 Jul 2029	5-day classroom	Vienna	English	4,750
17–28 Dec 2029	10-day classroom	Kuala Lumpur	English	8,950
17–28 Mar 2030	10-day classroom	Kuwait City	English	8,950
19–23 May 2030	5-day classroom	Riyadh	Arabic	4,750
17–28 Jun 2030	10-day online	Live online	Arabic	5,450
8–12 Jul 2030	5-day classroom	Vienna	English	4,750

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