Garnet
Garnet Global Training Center

GGT-CR-128

Corrosion, Coatings & Materials **Rare specialisation**

Hydrogen Embrittlement

التقصف الهيدروجيني

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

Overview

Hydrogen Embrittlement 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 Hydrogen Embrittlement to real tasks.
- Share good practice with your team.
- 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.

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

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 Hydrogen Embrittlement: principles and standards
- Materials selection
- Regional and international case studies

Day 2 Methods and tools in practice
- Coatings and linings
- Cathodic protection

Day 3 Diagnosis and problem solving
- Monitoring and inspection
- Checklists and templates to take away

Day 4 Quality, safety and documentation
- Failure analysis cases
- Group discussion and peer review

Day 5 Workshop, assessment and action plan
- Corrosion mechanisms
- Measurement and reporting

10-day outline

Day 1 Hydrogen Embrittlement: principles and standards
- Materials selection
- Regional and international case studies

Day 2 Methods and tools in practice
- Coatings and linings
- Cathodic protection

Day 3 Diagnosis and problem solving
- Monitoring and inspection
- Checklists and templates to take away

Day 4 Quality, safety and documentation
- Failure analysis cases
- Group discussion and peer review

Day 5 Workshop, assessment and action plan
- Corrosion mechanisms
- 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)
17–21 May 2027	5-day online	Live online	Arabic	2,950
10–14 Oct 2027	5-day classroom	Amman	Arabic	4,750
7–18 Nov 2027	10-day classroom	Riyadh	English	8,950
6–10 Dec 2027	5-day classroom	Singapore	English	4,750
21–25 Feb 2028	5-day classroom	Barcelona	English	4,750
17–28 Apr 2028	10-day online	Live online	Arabic	5,450
10–21 Jul 2028	10-day classroom	Dubai	Arabic	8,950
4–8 Sep 2028	5-day classroom	Paris	English	4,750
8–12 Jan 2029	5-day classroom	Dubai	English	4,750

Dates	Format	City	Language	Fee (USD)
4–15 Mar 2029	10-day classroom	Cairo	English	8,950
2–6 Jul 2029	5-day classroom	Paris	English	4,750
6–10 Aug 2029	5-day online	Live online	English	2,950
20–31 May 2030	10-day online	Live online	English	5,450
1–12 Sep 2030	10-day classroom	Riyadh	English	8,950
21–25 Oct 2030	5-day classroom	Istanbul	English	4,750
9–13 Dec 2030	5-day classroom	Dubai	Arabic	4,750

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