Garnet
Garnet Global Training Center

GGT-CR-119

Corrosion, Coatings & Materials **Rare specialisation**

Fracture Mechanics

ميكانيكا الكسر

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

Overview

Fracture Mechanics turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. 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

- Apply the methods and standards of Fracture Mechanics to real tasks.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.

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 Fracture Mechanics: principles and standards
- Materials selection
- Hands-on workshop on a workplace challenge

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

Day 3 Diagnosis and problem solving
- Monitoring and inspection
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation
- Failure analysis cases
- Regional and international case studies

Day 5 Workshop, assessment and action plan
- Corrosion mechanisms
- Checklists and templates to take away

10-day outline

Day 1 Fracture Mechanics: principles and standards
- Materials selection
- Hands-on workshop on a workplace challenge

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

Day 3 Diagnosis and problem solving
- Monitoring and inspection
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation
- Failure analysis cases
- Regional and international case studies

Day 5 Workshop, assessment and action plan
- Corrosion mechanisms
- Checklists and templates to take away

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Group discussion and peer review

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
- Measurement and reporting

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)
19–30 Apr 2027	10-day classroom	Vienna	English	8,950
14–18 Jun 2027	5-day online	Live online	Arabic	2,950
18–22 Jul 2027	5-day classroom	Cairo	Arabic	4,750
6–10 Sep 2027	5-day classroom	London	English	4,750
13–24 Mar 2028	10-day classroom	Barcelona	English	8,950
9–13 Jul 2028	5-day classroom	Muscat	English	4,750
7–11 Aug 2028	5-day classroom	Singapore	English	4,750
18–29 Sep 2028	10-day online	Live online	Arabic	5,450
12–16 Mar 2029	5-day classroom	Vienna	English	4,750
2–13 Jul 2029	10-day classroom	Casablanca	English	8,950

Dates	Format	City	Language	Fee (USD)
3–7 Sep 2029	5-day online	Live online	Arabic	2,950
5–9 Nov 2029	5-day classroom	Amsterdam	English	4,750
11–15 Feb 2030	5-day classroom	Dubai	English	4,750
17–28 Mar 2030	10-day classroom	Muscat	English	8,950
8–12 Jul 2030	5-day classroom	Abu Dhabi	English	4,750
16–27 Sep 2030	10-day online	Live online	Arabic	5,450

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