Garnet
Garnet Global Training Center

GGT-MM-130

Mechanical, Maintenance & Reliability

Failure Mode & Effects Analysis (FMEA)

تحليل أنماط الفشل وآثارها (FMEA)

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

Overview

Failure Mode & Effects Analysis (FMEA) focuses on how the work is actually done: the methods, checks and decisions practitioners use every day, illustrated with real cases from the region. Keep equipment running longer, fail less and plan maintenance on evidence instead of habit. 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 Failure Mode & Effects Analysis (FMEA) to real tasks.
- Follow safe, compliant and documented work practices.
- 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.

Who should attend

Mechanical and maintenance engineers, reliability specialists, planners and workshop supervisors. Practitioners with one to five years of experience benefit most.

Key topics

- Failure modes and degradation mechanisms
- Condition monitoring techniques
- Maintenance strategy and planning
- Spare parts and work order discipline
- Reliability metrics: MTBF, MTTR, OEE
- CMMS data and continuous improvement

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 Failure Mode & Effects Analysis (FMEA): principles and standards

- Reliability metrics: MTBF, MTTR, OEE
- Checklists and templates to take away

Day 2 Methods and tools in practice

- CMMS data and continuous improvement
- Failure modes and degradation mechanisms

Day 3 Diagnosis and problem solving

- Condition monitoring techniques
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Maintenance strategy and planning
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Spare parts and work order discipline
- Hands-on workshop on a workplace challenge

10-day outline

Day 1 Failure Mode & Effects Analysis (FMEA): principles and standards

- Reliability metrics: MTBF, MTTR, OEE
- Checklists and templates to take away

Day 2 Methods and tools in practice

- CMMS data and continuous improvement
- Failure modes and degradation mechanisms

Day 3 Diagnosis and problem solving

- Condition monitoring techniques
- Group discussion and peer review

Day 4 Quality, safety and documentation

- Maintenance strategy and planning
- Measurement and reporting

Day 5 Workshop, assessment and action plan

- Spare parts and work order discipline
- 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)
5–9 Apr 2027	5-day online	Live online	English	2,950
20 Jun – 1 Jul 2027	10-day classroom	Riyadh	Arabic	8,950
17–21 Oct 2027	5-day classroom	Muscat	English	4,750
20–24 Dec 2027	5-day classroom	Abu Dhabi	Arabic	4,750
2–6 Jan 2028	5-day classroom	Cairo	Arabic	4,750
14–25 Feb 2028	10-day classroom	Singapore	English	8,950
15–19 Oct 2028	5-day classroom	Riyadh	Arabic	4,750
4–15 Dec 2028	10-day online	Live online	Arabic	5,450
1–5 Jan 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
15–19 Apr 2029	5-day classroom	Kuwait City	Arabic	4,750
19–23 Nov 2029	5-day classroom	Abu Dhabi	Arabic	4,750
10–21 Dec 2029	10-day classroom	Casablanca	English	8,950
11–15 Mar 2030	5-day classroom	Barcelona	English	4,750
5–9 May 2030	5-day classroom	Cairo	Arabic	4,750
12–23 Aug 2030	10-day online	Live online	Arabic	5,450
1–12 Sep 2030	10-day classroom	Muscat	Arabic	8,950

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