Garnet
Garnet Global Training Center

GGT-MM-129

Mechanical, Maintenance & Reliability

Reliability Engineering Fundamentals

أساسيات هندسة الاعتمادية

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

Overview

Reliability Engineering Fundamentals 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. 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

- Explain the key concepts, terms and standards of Reliability Engineering Fundamentals.
- Communicate confidently with specialists and colleagues.
- Plan the next steps in your own learning.
- Recognise the main hazards, errors and misconceptions newcomers face.
- Carry out basic tasks correctly using simple checklists and tools.

Who should attend

Mechanical and maintenance engineers, reliability specialists, planners and workshop supervisors. No prior experience is required; it also suits new hires, graduates and staff moving into this field.

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

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 Reliability Engineering Fundamentals
- Maintenance strategy and planning
- Measurement and reporting

Day 2 Core concepts and terminology
- Spare parts and work order discipline
- Reliability metrics: MTBF, MTTR, OEE

Day 3 Basic methods and tools
- CMMS data and continuous improvement
- Hands-on workshop on a workplace challenge

Day 4 Working safely and correctly
- Failure modes and degradation mechanisms
- Common mistakes and how to avoid them

Day 5 Practical exercises and review
- Condition monitoring techniques
- Regional and international case studies

10-day outline

Day 1 Introduction to Reliability Engineering Fundamentals
- Maintenance strategy and planning
- Measurement and reporting

Day 2 Core concepts and terminology
- Spare parts and work order discipline
- Reliability metrics: MTBF, MTTR, OEE

Day 3 Basic methods and tools
- CMMS data and continuous improvement
- Hands-on workshop on a workplace challenge

Day 4 Working safely and correctly
- Failure modes and degradation mechanisms
- Common mistakes and how to avoid them

Day 5 Practical exercises and review
- Condition monitoring techniques
- Regional and international case studies

Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Checklists and templates to take away

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
- Group discussion and peer review

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)
3–14 Jan 2027	10-day classroom	Amman	Arabic	8,950
14–18 Mar 2027	5-day classroom	Cairo	English	4,750
14–18 Jun 2027	5-day online	Live online	Arabic	2,950
6–10 Sep 2027	5-day classroom	Istanbul	English	4,750
21 Feb – 3 Mar 2028	10-day classroom	Abu Dhabi	English	8,950
17–28 Apr 2028	10-day online	Live online	English	5,450
7–11 Aug 2028	5-day classroom	London	English	4,750
12–16 Nov 2028	5-day classroom	Doha	English	4,750
12–16 Mar 2029	5-day online	Live online	English	2,950

Dates	Format	City	Language	Fee (USD)
16–20 Apr 2029	5-day classroom	London	English	4,750
18–29 Jun 2029	10-day classroom	Dubai	English	8,950
10–14 Dec 2029	5-day classroom	Singapore	English	4,750
17–21 Jun 2030	5-day classroom	Geneva	English	4,750
5–16 Aug 2030	10-day online	Live online	English	5,450
1–12 Sep 2030	10-day classroom	Jeddah	Arabic	8,950
3–7 Nov 2030	5-day classroom	Amman	English	4,750

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