Garnet
Garnet Global Training Center

GGT-MM-104

Mechanical, Maintenance & Reliability

Root Cause Failure Analysis

تحليل الأسباب الجذرية للأعطال

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

Overview

Root Cause Failure Analysis 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. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Apply the methods and standards of Root Cause Failure Analysis 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

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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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 Root Cause Failure Analysis: principles and standards

- Reliability metrics: MTBF, MTTR, OEE
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Maintenance strategy and planning
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Spare parts and work order discipline
- Checklists and templates to take away

10-day outline

Day 1 Root Cause Failure Analysis: principles and standards

- Reliability metrics: MTBF, MTTR, OEE
- Hands-on workshop on a workplace challenge

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
- Common mistakes and how to avoid them

Day 4 Quality, safety and documentation

- Maintenance strategy and planning
- Regional and international case studies

Day 5 Workshop, assessment and action plan

- Spare parts and work order discipline
- 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)
1–5 Feb 2027	5-day classroom	Istanbul	English	4,750
1–12 Mar 2027	10-day classroom	Abu Dhabi	English	8,950
4–8 Jul 2027	5-day classroom	Riyadh	English	4,750
4–8 Oct 2027	5-day online	Live online	English	2,950
10–21 Jan 2028	10-day online	Live online	English	5,450
7–11 Feb 2028	5-day classroom	Dubai	English	4,750
9–20 Jul 2028	10-day classroom	Manama	English	8,950
11–15 Sep 2028	5-day classroom	Amsterdam	English	4,750
5–16 Feb 2029	10-day classroom	Amsterdam	English	8,950

Dates	Format	City	Language	Fee (USD)
16–20 Jul 2029	5-day classroom	Kuala Lumpur	English	4,750
6–10 Aug 2029	5-day classroom	London	English	4,750
5–9 Nov 2029	5-day online	Live online	Arabic	2,950
6–17 May 2030	10-day online	Live online	Arabic	5,450
14–25 Oct 2030	10-day classroom	Paris	English	8,950
4–8 Nov 2030	5-day classroom	Istanbul	English	4,750
2–6 Dec 2030	5-day classroom	Dubai	English	4,750

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