



Machinery Failure Analysis

Mechanical & Rotating Equipment

QGT-MEC-118 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Machinery Failure Analysis is an introduction that builds a solid working knowledge in Machinery Failure Analysis. It covers the principles, the requirements of API 610/617/618, ASME and ISO standards, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Machinery Failure Analysis
- Apply the relevant requirements of API 610/617/618, ASME and ISO standards
- Use practical tools, checklists and calculations with confidence
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for mechanical engineers, technicians, supervisors and maintenance staff, new joiners and anyone who needs a solid grounding in the subject.

Course outline (5 days)

Day 1: Principles and terminology

Scope, key definitions and how Machinery Failure Analysis fits into daily operations

Day 2: Codes, standards and requirements

What API 610/617/618, ASME and ISO standards require, and how to read them

Day 3: Methods, tools and calculations

Step-by-step methods, checklists and worked examples

Day 4: Operation, inspection and common problems

Typical failures, warning signs and what to do about them

Day 5: Case studies, workshop and assessment

Group exercise on real cases and a final knowledge check

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
8–12 Mar 2027	Stockholm	Classroom	5 days	\$5,500
10–21 May 2027	Tunis	Classroom	10 days	\$9,900
17–21 May 2027	London	Classroom	5 days	\$5,500
1–12 Aug 2027	Manama	Classroom	10 days	\$9,900
4–8 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
10–14 Jan 2028	Brussels	Classroom	5 days	\$5,500
20–31 Mar 2028	Luanda	Classroom	10 days	\$9,900
24–28 Jul 2028	Beirut	Classroom	5 days	\$5,500
16–27 Oct 2028	Athens	Classroom	10 days	\$9,900
30 Oct – 3 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
5–9 Mar 2029	Athens	Classroom	5 days	\$5,500
26 Mar – 6 Apr 2029	Cape Town	Classroom	10 days	\$9,900
4–8 Jun 2029	Madrid	Classroom	5 days	\$5,500
17–28 Jun 2029	Amman	Classroom	10 days	\$9,900
3–7 Dec 2029	Online (live)	Online (live)	5 days	\$3,000
25 Feb – 1 Mar 2030	Stockholm	Classroom	5 days	\$5,500
30 Jun – 11 Jul 2030	Doha	Classroom	10 days	\$9,900
22–26 Jul 2030	Kuala Lumpur	Classroom	5 days	\$5,500
29 Jul – 9 Aug 2030	Accra	Classroom	10 days	\$9,900
18–22 Nov 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/machinery-failure-analysis/>

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