



Machinery Failure Analysis: Advanced Level

Mechanical & Rotating Equipment

QGT-MEC-143 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Machinery Failure Analysis: Advanced Level is an advanced programme for experienced practitioners 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
- Apply advanced analysis methods to real operating data
- 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 with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in API 610/617/618, ASME and ISO standards

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

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
31 Jan – 11 Feb 2027	Cairo	Classroom	10 days	\$9,900
8–12 Mar 2027	Beirut	Classroom	5 days	\$5,500
12–23 Jul 2027	Milan	Classroom	10 days	\$9,900
16–20 Aug 2027	Amsterdam	Classroom	5 days	\$5,500
18–29 Oct 2027	Online (live)	Online (live)	10 days	\$5,500
14–25 Feb 2028	Bangkok	Classroom	10 days	\$9,900
23–27 Apr 2028	Cairo	Classroom	5 days	\$5,500
18–29 Jun 2028	Sharm El Sheikh	Classroom	10 days	\$9,900
21–25 Aug 2028	Rome	Classroom	5 days	\$5,500
2–13 Oct 2028	Online (live)	Online (live)	10 days	\$5,500
19–30 Mar 2029	Accra	Classroom	10 days	\$9,900
21–25 May 2029	Madrid	Classroom	5 days	\$5,500
4–15 Jun 2029	Budapest	Classroom	10 days	\$9,900
20–24 Aug 2029	Cape Town	Classroom	5 days	\$5,500
27 Aug – 7 Sep 2029	Online (live)	Online (live)	10 days	\$5,500
21 Jan – 1 Feb 2030	Budapest	Classroom	10 days	\$9,900
18–22 Mar 2030	Milan	Classroom	5 days	\$5,500
1–12 Jul 2030	Nairobi	Classroom	10 days	\$9,900
22–26 Jul 2030	Bangkok	Classroom	5 days	\$5,500
30 Sep – 11 Oct 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

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

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