



Ultrasound & Acoustic Emission Monitoring: Advanced Level

Maintenance & Reliability

QGT-MRE-138 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Ultrasound & Acoustic Emission Monitoring: Advanced Level is an advanced programme for experienced practitioners in Ultrasound & Acoustic Emission Monitoring. It covers the principles, the requirements of ISO 55001, ISO 14224, SAE JA1011 and SMRP best practice, 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 Ultrasound & Acoustic Emission Monitoring
- Apply the relevant requirements of ISO 55001, ISO 14224, SAE JA1011 and SMRP best practice
- 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 maintenance engineers, planners, reliability engineers and supervisors with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in ISO 55001, ISO 14224, SAE JA1011 and SMRP best practice

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
1–12 Mar 2027	Johannesburg	Classroom	10 days	\$9,900
1–5 Aug 2027	Amman	Classroom	5 days	\$5,500
16–27 Aug 2027	Edinburgh	Classroom	10 days	\$9,900
20–24 Sep 2027	Manchester	Classroom	5 days	\$5,500
29 Nov – 10 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
7–18 Feb 2028	Houston	Classroom	10 days	\$9,900
1–5 May 2028	Dublin	Classroom	5 days	\$5,500
8–19 May 2028	Zurich	Classroom	10 days	\$9,900
24–28 Jul 2028	Vienna	Classroom	5 days	\$5,500
6–17 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
8–19 Jan 2029	Johannesburg	Classroom	10 days	\$9,900
5–9 Feb 2029	London	Classroom	5 days	\$5,500
5–16 Mar 2029	Istanbul	Classroom	10 days	\$9,900
29 Jul – 2 Aug 2029	Doha	Classroom	5 days	\$5,500
19–30 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
7–18 Jan 2030	Manchester	Classroom	10 days	\$9,900
4–8 Feb 2030	Johannesburg	Classroom	5 days	\$5,500
1–12 Apr 2030	Zurich	Classroom	10 days	\$9,900
29 Apr – 3 May 2030	Tbilisi	Classroom	5 days	\$5,500
14–25 Oct 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/ultrasound-and-acoustic-emission-monitoring-advanced-level>

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