



Ultrasound & Acoustic Emission Monitoring

Maintenance & Reliability

QGT-MRE-116 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Ultrasound & Acoustic Emission Monitoring is an introduction that builds a solid working knowledge 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
- 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 maintenance engineers, planners, reliability engineers and supervisors, 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 Ultrasound & Acoustic Emission Monitoring fits into daily operations

Day 2: Codes, standards and requirements

What ISO 55001, ISO 14224, SAE JA1011 and SMRP best practice 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
10–14 Jan 2027	Cairo	Classroom	5 days	\$5,500
1–12 Feb 2027	Copenhagen	Classroom	10 days	\$9,900
8–12 Feb 2027	Berlin	Classroom	5 days	\$5,500
22 Feb – 5 Mar 2027	Nairobi	Classroom	10 days	\$9,900
5–9 Apr 2027	Online (live)	Online (live)	5 days	\$3,000
28 Feb – 3 Mar 2028	Milan	Classroom	5 days	\$5,500
15–26 May 2028	Edinburgh	Classroom	10 days	\$9,900
26–30 Jun 2028	Nairobi	Classroom	5 days	\$5,500
10–21 Jul 2028	Kuala Lumpur	Classroom	10 days	\$9,900
13–17 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
8–12 Jan 2029	Tbilisi	Classroom	5 days	\$5,500
28 Jan – 8 Feb 2029	Erbil	Classroom	10 days	\$9,900
19–23 Feb 2029	Vienna	Classroom	5 days	\$5,500
9–20 Jul 2029	Beirut	Classroom	10 days	\$9,900
12–16 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
20–24 Jan 2030	Erbil	Classroom	5 days	\$5,500
29 Apr – 10 May 2030	Prague	Classroom	10 days	\$9,900
27–31 May 2030	London	Classroom	5 days	\$5,500
29 Jul – 9 Aug 2030	Frankfurt	Classroom	10 days	\$9,900
16–20 Sep 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

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

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