



Thermal Insulation for Mechanical Systems: Advanced Level

Mechanical & Rotating Equipment

QGT-MEC-146 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Thermal Insulation for Mechanical Systems: Advanced Level is an advanced programme for experienced practitioners in Thermal Insulation for Mechanical Systems. 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 Thermal Insulation for Mechanical Systems
- 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
22 Feb – 5 Mar 2027	Bangkok	Classroom	10 days	\$9,900
31 May – 4 Jun 2027	Lisbon	Classroom	5 days	\$5,500
7–18 Jun 2027	Beirut	Classroom	10 days	\$9,900
21–25 Jun 2027	Baku	Classroom	5 days	\$5,500
26 Jul – 6 Aug 2027	Online (live)	Online (live)	10 days	\$5,500
15–26 May 2028	Edinburgh	Classroom	10 days	\$9,900
22–26 May 2028	Tbilisi	Classroom	5 days	\$5,500
2–13 Jul 2028	Cairo	Classroom	10 days	\$9,900
31 Jul – 4 Aug 2028	Baku	Classroom	5 days	\$5,500
2–13 Oct 2028	Online (live)	Online (live)	10 days	\$5,500
28 Jan – 8 Feb 2029	Alexandria	Classroom	10 days	\$9,900
19–23 Aug 2029	Riyadh	Classroom	5 days	\$5,500
27 Aug – 7 Sep 2029	Johannesburg	Classroom	10 days	\$9,900
15–19 Oct 2029	Kigali	Classroom	5 days	\$5,500
29 Oct – 9 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
25 Feb – 8 Mar 2030	Dublin	Classroom	10 days	\$9,900
1–5 Apr 2030	Brussels	Classroom	5 days	\$5,500
19–30 Aug 2030	Rome	Classroom	10 days	\$9,900
28 Oct – 1 Nov 2030	Vienna	Classroom	5 days	\$5,500
25 Nov – 6 Dec 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/thermal-insulation-for-mechanical-systems-advanced-level/>

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