



HVAC Systems Design & Maintenance: Advanced Level

Mechanical & Rotating Equipment

QGT-MEC-139 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

HVAC Systems Design & Maintenance: Advanced Level is an advanced programme for experienced practitioners in HVAC Systems Design & Maintenance. 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 HVAC Systems Design & Maintenance
- 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
17–28 Jan 2027	Riyadh	Classroom	10 days	\$9,900
17–21 May 2027	Casablanca	Classroom	5 days	\$5,500
21 Jun – 2 Jul 2027	Brussels	Classroom	10 days	\$9,900
12–16 Jul 2027	Budapest	Classroom	5 days	\$5,500
26 Jul – 6 Aug 2027	Online (live)	Online (live)	10 days	\$5,500
27 Mar – 7 Apr 2028	Accra	Classroom	10 days	\$9,900
17–21 Apr 2028	Manchester	Classroom	5 days	\$5,500
23 Apr – 4 May 2028	Doha	Classroom	10 days	\$9,900
7–11 Aug 2028	Dubai	Classroom	5 days	\$5,500
4–15 Dec 2028	Online (live)	Online (live)	10 days	\$5,500
8–19 Jan 2029	Houston	Classroom	10 days	\$9,900
19–23 Mar 2029	Accra	Classroom	5 days	\$5,500
9–20 Apr 2029	Tbilisi	Classroom	10 days	\$9,900
30 Jul – 3 Aug 2029	Rome	Classroom	5 days	\$5,500
5–16 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
4–15 Feb 2030	Kuala Lumpur	Classroom	10 days	\$9,900
18–22 Mar 2030	Geneva	Classroom	5 days	\$5,500
17–28 Jun 2030	Madrid	Classroom	10 days	\$9,900
19–23 Aug 2030	Manchester	Classroom	5 days	\$5,500
9–20 Sep 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/hvac-systems-design-and-maintenance-advanced-level/>

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