



Piping Systems Design & Stress Analysis: Advanced Level

Mechanical & Rotating Equipment

QGT-MEC-148 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Piping Systems Design & Stress Analysis: Advanced Level is an advanced programme for experienced practitioners in Piping Systems Design & Stress 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 Piping Systems Design & Stress 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
25 Jan – 5 Feb 2027	Houston	Classroom	10 days	\$9,900
15–19 Feb 2027	Munich	Classroom	5 days	\$5,500
8–19 Mar 2027	Marrakech	Classroom	10 days	\$9,900
29 Mar – 2 Apr 2027	Luanda	Classroom	5 days	\$5,500
28 Jun – 9 Jul 2027	Online (live)	Online (live)	10 days	\$5,500
20–31 Mar 2028	Budapest	Classroom	10 days	\$9,900
15–19 May 2028	Beirut	Classroom	5 days	\$5,500
28 May – 8 Jun 2028	Dammam	Classroom	10 days	\$9,900
23–27 Jul 2028	Sharm El Sheikh	Classroom	5 days	\$5,500
9–20 Oct 2028	Online (live)	Online (live)	10 days	\$5,500
29 Jan – 9 Feb 2029	Stockholm	Classroom	10 days	\$9,900
26 Feb – 2 Mar 2029	Paris	Classroom	5 days	\$5,500
30 Apr – 11 May 2029	Prague	Classroom	10 days	\$9,900
17–21 Jun 2029	Dammam	Classroom	5 days	\$5,500
9–20 Jul 2029	Online (live)	Online (live)	10 days	\$5,500
25 Feb – 8 Mar 2030	Kigali	Classroom	10 days	\$9,900
25–29 Mar 2030	Copenhagen	Classroom	5 days	\$5,500
9–20 Sep 2030	Frankfurt	Classroom	10 days	\$9,900
21–25 Oct 2030	Kuala Lumpur	Classroom	5 days	\$5,500
28 Oct – 8 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/piping-systems-design-and-stress-analysis-advanced-level/>

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