



Piping Systems Design & Stress Analysis: Practical Workshop

Mechanical & Rotating Equipment

QGT-MEC-173 | Practical workshop | 5 or 10 days | Online, classroom, in-house

Course overview

Piping Systems Design & Stress Analysis: Practical Workshop is a hands-on workshop built around exercises and real site problems 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
- 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 mechanical engineers, technicians, supervisors and maintenance staff who want practice rather than theory.

Course outline (5 days)

Day 1: Workshop briefing and baseline

Participants bring a real problem from their own site

Day 2: Guided practice 1

Hands-on exercises using templates, checklists and calculators

Day 3: Guided practice 2

Simulations and role-play based on Piping Systems Design & Stress Analysis scenarios

Day 4: Field cases from the Gulf and Africa

Analysing what went wrong and what worked

Day 5: Action plan and peer review

Each participant leaves with a reviewed improvement plan

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
11–15 Apr 2027	Dammam	Classroom	5 days	\$5,500
26 Apr – 7 May 2027	Edinburgh	Classroom	10 days	\$9,900
1–5 Aug 2027	Kuwait City	Classroom	5 days	\$5,500
6–17 Sep 2027	Madrid	Classroom	10 days	\$9,900
27 Sep – 1 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
31 Jan – 4 Feb 2028	Rome	Classroom	5 days	\$5,500
6–17 Mar 2028	Dublin	Classroom	10 days	\$9,900
20–24 Mar 2028	Lagos	Classroom	5 days	\$5,500
6–17 Aug 2028	Doha	Classroom	10 days	\$9,900
21–25 Aug 2028	Online (live)	Online (live)	5 days	\$3,000
26–30 Mar 2029	Budapest	Classroom	5 days	\$5,500
26 Aug – 6 Sep 2029	Manama	Classroom	10 days	\$9,900
9–13 Sep 2029	Cairo	Classroom	5 days	\$5,500
25 Nov – 6 Dec 2029	Erbil	Classroom	10 days	\$9,900
3–7 Dec 2029	Online (live)	Online (live)	5 days	\$3,000
6–10 May 2030	London	Classroom	5 days	\$5,500
22 Jul – 2 Aug 2030	Geneva	Classroom	10 days	\$9,900
29 Jul – 2 Aug 2030	Milan	Classroom	5 days	\$5,500
5–16 Aug 2030	Munich	Classroom	10 days	\$9,900
7–11 Oct 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

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

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