



Piping Systems Design & Stress Analysis

Mechanical & Rotating Equipment

QGT-MEC-123 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Piping Systems Design & Stress Analysis is an introduction that builds a solid working knowledge 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, 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 Piping Systems Design & Stress Analysis fits into daily operations

Day 2: Codes, standards and requirements

What API 610/617/618, ASME and ISO standards 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
22–26 Mar 2027	Geneva	Classroom	5 days	\$5,500
3–14 May 2027	London	Classroom	10 days	\$9,900
10–14 May 2027	Rome	Classroom	5 days	\$5,500
19–30 Jul 2027	Accra	Classroom	10 days	\$9,900
8–12 Nov 2027	Online (live)	Online (live)	5 days	\$3,000
16–20 Apr 2028	Alexandria	Classroom	5 days	\$5,500
12–23 Jun 2028	Geneva	Classroom	10 days	\$9,900
2–6 Jul 2028	Manama	Classroom	5 days	\$5,500
24 Jul – 4 Aug 2028	Bangkok	Classroom	10 days	\$9,900
25–29 Sep 2028	Online (live)	Online (live)	5 days	\$3,000
7–11 Jan 2029	Amman	Classroom	5 days	\$5,500
14–25 May 2029	Munich	Classroom	10 days	\$9,900
28 May – 1 Jun 2029	Amsterdam	Classroom	5 days	\$5,500
4–15 Jun 2029	Johannesburg	Classroom	10 days	\$9,900
17–21 Sep 2029	Online (live)	Online (live)	5 days	\$3,000
21–25 Jan 2030	Abu Dhabi	Classroom	5 days	\$5,500
4–15 Feb 2030	Vienna	Classroom	10 days	\$9,900
2–6 Sep 2030	Munich	Classroom	5 days	\$5,500
14–25 Oct 2030	Dubai	Classroom	10 days	\$9,900
11–15 Nov 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/>

WhatsApp: +971 50 697 0908

Email: training@qimmatrainig.com

