



Hydraulic & Pneumatic Systems

Mechanical & Rotating Equipment

QGT-MEC-115 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Hydraulic & Pneumatic Systems is an introduction that builds a solid working knowledge in Hydraulic & Pneumatic 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 Hydraulic & Pneumatic Systems
- 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 Hydraulic & Pneumatic Systems 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	Prague	Classroom	5 days	\$5,500
2–13 May 2027	Dammam	Classroom	10 days	\$9,900
16–20 Aug 2027	Tbilisi	Classroom	5 days	\$5,500
27 Sep – 8 Oct 2027	Marrakech	Classroom	10 days	\$9,900
11–15 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
5–9 Mar 2028	Muscat	Classroom	5 days	\$5,500
26 Jun – 7 Jul 2028	Sharjah	Classroom	10 days	\$9,900
31 Jul – 4 Aug 2028	Casablanca	Classroom	5 days	\$5,500
18–29 Sep 2028	Lagos	Classroom	10 days	\$9,900
25–29 Sep 2028	Online (live)	Online (live)	5 days	\$3,000
9–13 Apr 2029	Athens	Classroom	5 days	\$5,500
23 Apr – 4 May 2029	Milan	Classroom	10 days	\$9,900
16–20 Jul 2029	Cape Town	Classroom	5 days	\$5,500
10–21 Sep 2029	Prague	Classroom	10 days	\$9,900
24–28 Sep 2029	Online (live)	Online (live)	5 days	\$3,000
7–11 Jan 2030	Kigali	Classroom	5 days	\$5,500
11–22 Mar 2030	Brussels	Classroom	10 days	\$9,900
13–17 May 2030	Dublin	Classroom	5 days	\$5,500
26 Aug – 6 Sep 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/hydraulic-and-pneumatic-systems/>

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