



Hardness & Mechanical Testing

Welding, NDT & Materials

QGT-WLD-121 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Hardness & Mechanical Testing is an introduction that builds a solid working knowledge in Hardness & Mechanical Testing. It covers the principles, the requirements of AWS D1.1, ASME IX, ISO 9712 and ASNT SNT-TC-1A, 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 Hardness & Mechanical Testing
- Apply the relevant requirements of AWS D1.1, ASME IX, ISO 9712 and ASNT SNT-TC-1A
- 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 welding engineers, inspectors, NDT technicians and materials specialists, 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 Hardness & Mechanical Testing fits into daily operations

Day 2: Codes, standards and requirements

What AWS D1.1, ASME IX, ISO 9712 and ASNT SNT-TC-1A 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
5–9 Apr 2027	Beirut	Classroom	5 days	\$5,500
16–27 May 2027	Kuwait City	Classroom	10 days	\$9,900
12–16 Sep 2027	Doha	Classroom	5 days	\$5,500
18–29 Oct 2027	Madrid	Classroom	10 days	\$9,900
1–5 Nov 2027	Online (live)	Online (live)	5 days	\$3,000
21–25 Feb 2028	Houston	Classroom	5 days	\$5,500
26 Mar – 6 Apr 2028	Erbil	Classroom	10 days	\$9,900
24–28 Jul 2028	Baku	Classroom	5 days	\$5,500
6–17 Aug 2028	Amman	Classroom	10 days	\$9,900
25–29 Sep 2028	Online (live)	Online (live)	5 days	\$3,000
1–5 Apr 2029	Riyadh	Classroom	5 days	\$5,500
22 Apr – 3 May 2029	Erbil	Classroom	10 days	\$9,900
9–13 Jul 2029	Abu Dhabi	Classroom	5 days	\$5,500
27 Aug – 7 Sep 2029	Paris	Classroom	10 days	\$9,900
29 Oct – 2 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
11–15 Feb 2030	Prague	Classroom	5 days	\$5,500
3–14 Mar 2030	Dammam	Classroom	10 days	\$9,900
13–17 May 2030	Dubai	Classroom	5 days	\$5,500
29 Sep – 10 Oct 2030	Doha	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/hardness-and-mechanical-testing/>

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