



# Materials Selection for Oil & Gas

## Welding, NDT & Materials

QGT-WLD-116 | Foundation | 5 or 10 days | Online, classroom, in-house

### Course overview

Materials Selection for Oil & Gas is an introduction that builds a solid working knowledge in Materials Selection for Oil & Gas. 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 Materials Selection for Oil & Gas
- 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 Materials Selection for Oil & Gas 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     |
|---------------------|-----------------|---------------|----------|---------|
| 18–22 Jul 2027      | Kuwait City     | Classroom     | 5 days   | \$5,500 |
| 27 Sep – 8 Oct 2027 | Frankfurt       | Classroom     | 10 days  | \$9,900 |
| 18–22 Oct 2027      | Tbilisi         | Classroom     | 5 days   | \$5,500 |
| 25 Oct – 5 Nov 2027 | Rome            | Classroom     | 10 days  | \$9,900 |
| 1–5 Nov 2027        | Online (live)   | Online (live) | 5 days   | \$3,000 |
| 23–27 Apr 2028      | Sharm El Sheikh | Classroom     | 5 days   | \$5,500 |
| 5–16 Jun 2028       | Kigali          | Classroom     | 10 days  | \$9,900 |
| 18–22 Jun 2028      | Salalah         | Classroom     | 5 days   | \$5,500 |
| 17–28 Sep 2028      | Riyadh          | Classroom     | 10 days  | \$9,900 |
| 30 Oct – 3 Nov 2028 | Online (live)   | Online (live) | 5 days   | \$3,000 |
| 18–22 Feb 2029      | Manama          | Classroom     | 5 days   | \$5,500 |
| 1–12 Apr 2029       | Doha            | Classroom     | 10 days  | \$9,900 |
| 23–27 Apr 2029      | Manchester      | Classroom     | 5 days   | \$5,500 |
| 25 Jun – 6 Jul 2029 | Sharjah         | Classroom     | 10 days  | \$9,900 |
| 6–10 Aug 2029       | Online (live)   | Online (live) | 5 days   | \$3,000 |
| 14–18 Jan 2030      | Abu Dhabi       | Classroom     | 5 days   | \$5,500 |
| 21 Jan – 1 Feb 2030 | Kigali          | Classroom     | 10 days  | \$9,900 |
| 25 Feb – 1 Mar 2030 | Tbilisi         | Classroom     | 5 days   | \$5,500 |
| 4–15 Mar 2030       | Singapore       | Classroom     | 10 days  | \$9,900 |
| 1–5 Jul 2030        | Online (live)   | Online (live) | 5 days   | \$3,000 |

## How to register

### Register online or scan the code

<https://qimmatrainig.com/courses/materials-selection-for-oil-and-gas/>

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