



Failure Analysis & Fractography: Advanced Level

Welding, NDT & Materials

QGT-WLD-143 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Failure Analysis & Fractography: Advanced Level is an advanced programme for experienced practitioners in Failure Analysis & Fractography. 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 Failure Analysis & Fractography
- Apply the relevant requirements of AWS D1.1, ASME IX, ISO 9712 and ASNT SNT-TC-1A
- Apply advanced analysis methods to real operating data
- 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 with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in AWS D1.1, ASME IX, ISO 9712 and ASNT SNT-TC-1A

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

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
12–23 Apr 2027	Marrakech	Classroom	10 days	\$9,900
24–28 May 2027	Stockholm	Classroom	5 days	\$5,500
6–17 Jun 2027	Dammam	Classroom	10 days	\$9,900
27 Sep – 1 Oct 2027	Tbilisi	Classroom	5 days	\$5,500
4–15 Oct 2027	Online (live)	Online (live)	10 days	\$5,500
24 Apr – 5 May 2028	Kigali	Classroom	10 days	\$9,900
18–22 Jun 2028	Muscat	Classroom	5 days	\$5,500
7–18 Aug 2028	Johannesburg	Classroom	10 days	\$9,900
6–10 Nov 2028	Paris	Classroom	5 days	\$5,500
27 Nov – 8 Dec 2028	Online (live)	Online (live)	10 days	\$5,500
22 Jan – 2 Feb 2029	Abu Dhabi	Classroom	10 days	\$9,900
2–6 Jul 2029	Houston	Classroom	5 days	\$5,500
2–13 Sep 2029	Muscat	Classroom	10 days	\$9,900
17–21 Sep 2029	Cape Town	Classroom	5 days	\$5,500
12–23 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
21 Jan – 1 Feb 2030	Edinburgh	Classroom	10 days	\$9,900
8–12 Apr 2030	Tbilisi	Classroom	5 days	\$5,500
22 Apr – 3 May 2030	Barcelona	Classroom	10 days	\$9,900
3–7 Jun 2030	Sharjah	Classroom	5 days	\$5,500
28 Oct – 8 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/failure-analysis-and-fractography-advanced-level/>

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