



Time-of-Flight Diffraction (TOFD): Advanced Level

Welding, NDT & Materials

QGT-WLD-131 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Time-of-Flight Diffraction (TOFD): Advanced Level is an advanced programme for experienced practitioners in Time-of-Flight Diffraction (TOFD). 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 Time-of-Flight Diffraction (TOFD)
- 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
8–19 Mar 2027	Dubai	Classroom	10 days	\$9,900
5–9 Apr 2027	Munich	Classroom	5 days	\$5,500
21 Jun – 2 Jul 2027	Madrid	Classroom	10 days	\$9,900
1–5 Nov 2027	Stockholm	Classroom	5 days	\$5,500
15–26 Nov 2027	Online (live)	Online (live)	10 days	\$5,500
6–17 Mar 2028	Houston	Classroom	10 days	\$9,900
17–21 Jul 2028	Frankfurt	Classroom	5 days	\$5,500
18–29 Sep 2028	Marrakech	Classroom	10 days	\$9,900
2–6 Oct 2028	Zurich	Classroom	5 days	\$5,500
27 Nov – 8 Dec 2028	Online (live)	Online (live)	10 days	\$5,500
19 Feb – 2 Mar 2029	Barcelona	Classroom	10 days	\$9,900
5–9 Mar 2029	Sharjah	Classroom	5 days	\$5,500
20–31 Aug 2029	Rome	Classroom	10 days	\$9,900
12–16 Nov 2029	Madrid	Classroom	5 days	\$5,500
26 Nov – 7 Dec 2029	Online (live)	Online (live)	10 days	\$5,500
3–14 Mar 2030	Dammam	Classroom	10 days	\$9,900
22–26 Apr 2030	Zurich	Classroom	5 days	\$5,500
1–12 Sep 2030	Algiers	Classroom	10 days	\$9,900
11–15 Nov 2030	Nairobi	Classroom	5 days	\$5,500
25 Nov – 6 Dec 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/time-of-flight-diffraction-tofd-advanced-level/>

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