



Damage Mechanisms in the Refining Industry: Advanced Level

Inspection & Asset Integrity

QGT-INT-130 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Damage Mechanisms in the Refining Industry: Advanced Level is an advanced programme for experienced practitioners in Damage Mechanisms in the Refining Industry. It covers the principles, the requirements of API 510/570/653/579/580/581 and ASME codes, 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 Damage Mechanisms in the Refining Industry
- Apply the relevant requirements of API 510/570/653/579/580/581 and ASME codes
- 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 inspectors, integrity engineers, QA/QC staff and asset owners with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in API 510/570/653/579/580/581 and ASME codes

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
22 Feb – 5 Mar 2027	Stockholm	Classroom	10 days	\$9,900
1–5 Mar 2027	Rome	Classroom	5 days	\$5,500
18–29 Apr 2027	Dammam	Classroom	10 days	\$9,900
19–23 Jul 2027	Lisbon	Classroom	5 days	\$5,500
23 Aug – 3 Sep 2027	Online (live)	Online (live)	10 days	\$5,500
10–21 Jan 2028	Sharjah	Classroom	10 days	\$9,900
24–28 Jan 2028	Brussels	Classroom	5 days	\$5,500
17–28 Apr 2028	Milan	Classroom	10 days	\$9,900
21–25 Aug 2028	Bangkok	Classroom	5 days	\$5,500
23 Oct – 3 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
26 Feb – 9 Mar 2029	Beirut	Classroom	10 days	\$9,900
12–16 Mar 2029	Zurich	Classroom	5 days	\$5,500
19–30 Mar 2029	Brussels	Classroom	10 days	\$9,900
26–30 Aug 2029	Riyadh	Classroom	5 days	\$5,500
17–28 Sep 2029	Online (live)	Online (live)	10 days	\$5,500
3–14 Mar 2030	Erbil	Classroom	10 days	\$9,900
19–23 May 2030	Kuwait City	Classroom	5 days	\$5,500
17–28 Jun 2030	Houston	Classroom	10 days	\$9,900
18–22 Nov 2030	Marrakech	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/damage-mechanisms-in-the-refining-industry-advanced-level>

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