



Damage Mechanisms in the Refining Industry

Inspection & Asset Integrity

QGT-INT-107 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Damage Mechanisms in the Refining Industry is an introduction that builds a solid working knowledge 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
- 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 inspectors, integrity engineers, QA/QC staff and asset owners, 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 Damage Mechanisms in the Refining Industry fits into daily operations

Day 2: Codes, standards and requirements

What API 510/570/653/579/580/581 and ASME codes 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
11–15 Jan 2027	Abu Dhabi	Classroom	5 days	\$5,500
4–15 Apr 2027	Cairo	Classroom	10 days	\$9,900
3–7 May 2027	Lisbon	Classroom	5 days	\$5,500
31 May – 11 Jun 2027	Houston	Classroom	10 days	\$9,900
18–22 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
6–10 Mar 2028	Tbilisi	Classroom	5 days	\$5,500
20–31 Mar 2028	Bangkok	Classroom	10 days	\$9,900
3–7 Apr 2028	Sharjah	Classroom	5 days	\$5,500
18–29 Jun 2028	Cairo	Classroom	10 days	\$9,900
9–13 Oct 2028	Online (live)	Online (live)	5 days	\$3,000
22–26 Apr 2029	Algiers	Classroom	5 days	\$5,500
6–17 May 2029	Al Khobar	Classroom	10 days	\$9,900
3–7 Sep 2029	Edinburgh	Classroom	5 days	\$5,500
15–26 Oct 2029	Accra	Classroom	10 days	\$9,900
19–23 Nov 2029	Online (live)	Online (live)	5 days	\$3,000
4–8 Feb 2030	Singapore	Classroom	5 days	\$5,500
28 Apr – 9 May 2030	Manama	Classroom	10 days	\$9,900
20–24 May 2030	Accra	Classroom	5 days	\$5,500
29 Jul – 9 Aug 2030	Budapest	Classroom	10 days	\$9,900
12–16 Aug 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/damage-mechanisms-in-the-refining-industry/>

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