



Layer of Protection Analysis (LOPA): Advanced Level

HSE & Process Safety

QGT-HSE-139 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Layer of Protection Analysis (LOPA): Advanced Level is an advanced programme for experienced practitioners in Layer of Protection Analysis (LOPA). It covers the principles, the requirements of OSHA, ISO 45001, CCPS, IEC 61882 and NFPA, 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 Layer of Protection Analysis (LOPA)
- Apply the relevant requirements of OSHA, ISO 45001, CCPS, IEC 61882 and NFPA
- 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 HSE professionals, supervisors, engineers and managers with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in OSHA, ISO 45001, CCPS, IEC 61882 and NFPA

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
29 Mar – 9 Apr 2027	Zurich	Classroom	10 days	\$9,900
17–21 May 2027	Copenhagen	Classroom	5 days	\$5,500
25 Jul – 5 Aug 2027	Erbil	Classroom	10 days	\$9,900
22–26 Aug 2027	Muscat	Classroom	5 days	\$5,500
25 Oct – 5 Nov 2027	Online (live)	Online (live)	10 days	\$5,500
26 Mar – 6 Apr 2028	Salalah	Classroom	10 days	\$9,900
21–25 May 2028	Dammam	Classroom	5 days	\$5,500
5–16 Jun 2028	Singapore	Classroom	10 days	\$9,900
2–6 Oct 2028	Tbilisi	Classroom	5 days	\$5,500
13–24 Nov 2028	Online (live)	Online (live)	10 days	\$5,500
15–26 Jan 2029	Brussels	Classroom	10 days	\$9,900
12–16 Feb 2029	Houston	Classroom	5 days	\$5,500
16–27 Sep 2029	Sharm El Sheikh	Classroom	10 days	\$9,900
29 Oct – 2 Nov 2029	Copenhagen	Classroom	5 days	\$5,500
12–23 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
7–18 Jan 2030	Cape Town	Classroom	10 days	\$9,900
4–8 Mar 2030	Bangkok	Classroom	5 days	\$5,500
8–19 Jul 2030	Brussels	Classroom	10 days	\$9,900
3–7 Nov 2030	Kuwait City	Classroom	5 days	\$5,500
11–22 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/layer-of-protection-analysis-lopa-advanced-level/>

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