



Layer of Protection Analysis (LOPA)

HSE & Process Safety

QGT-HSE-113 | Foundation | 5 or 10 days | Online, classroom, in-house

Course overview

Layer of Protection Analysis (LOPA) is an introduction that builds a solid working knowledge 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
- 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 HSE professionals, supervisors, engineers and managers, 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 Layer of Protection Analysis (LOPA) fits into daily operations

Day 2: Codes, standards and requirements

What OSHA, ISO 45001, CCPS, IEC 61882 and NFPA 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
29 Mar – 2 Apr 2027	Lisbon	Classroom	5 days	\$5,500
5–16 Apr 2027	Lagos	Classroom	10 days	\$9,900
11–15 Apr 2027	Al Khobar	Classroom	5 days	\$5,500
24 May – 4 Jun 2027	Brussels	Classroom	10 days	\$9,900
11–15 Oct 2027	Online (live)	Online (live)	5 days	\$3,000
24–28 Jan 2028	Rome	Classroom	5 days	\$5,500
15–26 May 2028	Munich	Classroom	10 days	\$9,900
3–7 Jul 2028	Bangkok	Classroom	5 days	\$5,500
30 Oct – 10 Nov 2028	Beirut	Classroom	10 days	\$9,900
20–24 Nov 2028	Online (live)	Online (live)	5 days	\$3,000
25–29 Mar 2029	Jeddah	Classroom	5 days	\$5,500
4–15 Jun 2029	Marrakech	Classroom	10 days	\$9,900
25–29 Jun 2029	Casablanca	Classroom	5 days	\$5,500
20–31 Aug 2029	Bangkok	Classroom	10 days	\$9,900
8–12 Oct 2029	Online (live)	Online (live)	5 days	\$3,000
7–11 Jan 2030	Luanda	Classroom	5 days	\$5,500
14–25 Jul 2030	Dammam	Classroom	10 days	\$9,900
23–27 Sep 2030	Copenhagen	Classroom	5 days	\$5,500
30 Sep – 11 Oct 2030	Rome	Classroom	10 days	\$9,900
18–22 Nov 2030	Online (live)	Online (live)	5 days	\$3,000

How to register

Register online or scan the code

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

WhatsApp: +971 50 697 0908

Email: training@qimmatrainig.com

