Garnet
Garnet Global Training Center

GGT-HS-124

HSE & Process Safety

Layer of Protection Analysis (LOPA)

تحليل طبقات الحماية (LOPA)

Duration	Language	Formats	Hours	Level
5 or 10 days	**English or Arabic**	**Classroom, online, in-house**	**35 / 70**	**Intermediate (practitioner)**

Overview

Layer of Protection Analysis (LOPA) turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Prevent incidents by understanding hazards, controlling risk and leading safety culture. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

What you will be able to do

- Apply the methods and standards of Layer of Protection Analysis (LOPA) to real tasks.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.

Who should attend

HSE professionals, operations leaders, supervisors and anyone accountable for safe work. Practitioners with one to five years of experience benefit most.

Key topics

- Hazard identification and risk assessment
- Barriers, bow-tie and layers of protection
- Legal duties and international standards
- Human factors and safety culture
- Emergency preparedness
- Lessons from major accident investigations

Formats and fees

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house	**Quotation per group**

Fees per participant, excluding VAT.

Register or ask

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Email: info@garnettrainings.com

Training: training@garnettrainings.com

Web: garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

5-day outline

Day 1 Layer of Protection Analysis (LOPA): principles and standards

- Legal duties and international standards
- Measurement and reporting

Day 2 Methods and tools in practice

- Human factors and safety culture
- Emergency preparedness

Day 3 Diagnosis and problem solving

- Lessons from major accident investigations
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Hazard identification and risk assessment
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Barriers, bow-tie and layers of protection
- Regional and international case studies

10-day outline

Day 1 Layer of Protection Analysis (LOPA): principles and standards

- Legal duties and international standards
- Measurement and reporting

Day 2 Methods and tools in practice

- Human factors and safety culture
- Emergency preparedness

Day 3 Diagnosis and problem solving

- Lessons from major accident investigations
- Hands-on workshop on a workplace challenge

Day 4 Quality, safety and documentation

- Hazard identification and risk assessment
- Common mistakes and how to avoid them

Day 5 Workshop, assessment and action plan

- Barriers, bow-tie and layers of protection
- Regional and international case studies

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Checklists and templates to take away

Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

Day 8 Benchmarking against international practice

- Global performance benchmarks
- Group discussion and peer review

Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

Schedule 2027–2030

Dates	Format	City	Language	Fee (USD)
17–21 May 2027	5-day online	Live online	Arabic	2,950
7–18 Jun 2027	10-day classroom	Dubai	English	8,950
12–16 Jul 2027	5-day classroom	Istanbul	English	4,750
16–20 Aug 2027	5-day classroom	London	English	4,750
17–28 Jan 2028	10-day classroom	Geneva	English	8,950
14–25 Aug 2028	10-day online	Live online	Arabic	5,450
3–7 Sep 2028	5-day classroom	Riyadh	English	4,750
3–7 Dec 2028	5-day classroom	Doha	Arabic	4,750
1–5 Jan 2029	5-day classroom	Barcelona	English	4,750

Dates	Format	City	Language	Fee (USD)
16–20 Apr 2029	5-day classroom	Singapore	English	4,750
11–15 Jun 2029	5-day online	Live online	English	2,950
19–30 Nov 2029	10-day classroom	Istanbul	English	8,950
14–18 Jan 2030	5-day classroom	Istanbul	English	4,750
17–28 Jun 2030	10-day classroom	Dubai	Arabic	8,950
21–25 Jul 2030	5-day classroom	Kuwait City	Arabic	4,750
9–20 Sep 2030	10-day online	Live online	Arabic	5,450

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/