



HEALTH SAFETY AND ENVIRONMENT | HSE-037

Laboratory Safety Management

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Course content

Why Attend

Laboratories handle hazardous chemicals, biological agents, gases, equipment and sometimes radiation. Effective safety management protects staff, students and visitors and supports reliable results.

This Aractech course covers laboratory hazards, chemical hygiene plans, risk assessment, fume hoods and ventilation, gas cylinders, biological and radiation safety awareness, waste management, emergency procedures and laboratory safety culture. Participants develop a laboratory safety plan.

Course Methodology

- Practical presentations
- Risk assessment exercises
- Case studies
- Inspection checklist workshop
- Group discussions

Course Objectives

- Identify laboratory hazards
- Develop chemical hygiene plans
- Assess laboratory risks
- Manage ventilation, equipment and gas cylinders
- Handle laboratory waste safely
- Prepare for laboratory emergencies

Target Audience

- Laboratory managers and supervisors
- Laboratory technicians and scientists

Course content

- HSE professionals
- Research coordinators

Course outline

Detailed course outline

Day-by-day outline for Laboratory Safety Management.

Day 1 - Laboratory Hazards

- 09:00-09:39 | Chemical hazards
- 09:39-10:18 | Physical hazards
- 10:18-10:57 | Biological hazards
- 10:57-11:00 | Radiation awareness
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Radiation awareness (continued)
- 12:05-12:43 | Legal requirements
- 12:43-14:00 | Exercise: Laboratory hazard review

Day 2 - Chemical Hygiene

- 09:00-09:39 | Chemical hygiene plans
- 09:39-10:18 | Storage and segregation
- 10:18-10:57 | Exposure control
- 10:57-11:00 | Fume hoods
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Fume hoods (continued)
- 12:05-12:43 | PPE
- 12:43-14:00 | Workshop: Chemical hygiene plan

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Day 3 - Equipment and Gases

- 09:00-09:39 | Gas cylinders
- 09:39-10:18 | Pressure equipment
- 10:18-10:57 | Electrical safety
- 10:57-11:00 | Centrifuges and autoclaves
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Centrifuges and autoclaves (continued)
- 12:05-12:43 | Maintenance
- 12:43-14:00 | Case study: Laboratory explosion

Day 4 - Waste and Emergencies

- 09:00-10:07 | Laboratory waste
- 10:07-10:41 | Spills
- 10:41-11:00 | Fire
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Fire (continued)
- 11:45-12:19 | First aid
- 12:19-12:53 | Emergency drills
- 12:53-14:00 | Exercise: Spill scenario

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Day 5 - Safety Management

- 09:00-09:39 | Inspections
- 09:39-10:18 | Training
- 10:18-10:57 | Safety culture
- 10:57-11:00 | Audits
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Audits (continued)
- 12:05-12:43 | Improvement
- 12:43-14:00 | Capstone: Laboratory safety plan

Seminar dates

Available seminar dates

Live dates and pricing for Laboratory Safety Management generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Munich	Classroom	€3,225
21 - 25 December 2026	Amsterdam	Classroom	€2,830
18 - 22 January 2027	Barcelona	Classroom	€2,815
15 - 19 February 2027	Frankfurt	Classroom	€1,875
15 - 19 March 2027	Rome	Classroom	€3,460
19 - 23 April 2027	Kuala Lumpur	Classroom	€1,925
17 - 21 May 2027	Barcelona	Classroom	€2,815
21 - 25 June 2027	London	Classroom	€2,315
19 - 23 July 2027	Geneva	Classroom	€4,315
16 - 20 August 2027	Amsterdam	Classroom	€2,830

Seminar dates

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Date	Location	Format	Fee
20 - 24 September 2027	Barcelona	Classroom	€2,815
18 - 22 October 2027	Frankfurt	Classroom	€1,875
15 - 19 November 2027	Rome	Classroom	€3,460
20 - 24 December 2027	Kuala Lumpur	Classroom	€1,925
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
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19 - 23 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

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17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
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