

TRAINING TITLE

LABORATORY SAFETY MANAGEMENT AND HEALTH PROTECTION ASPECT OF OSHA STANDARDS

Training Duration

5 days

Training Venue and Dates

LM353	Laboratory Safety Management and Health Protection Aspect of OSHA Standards	5	15-19 Dec 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This course provides a comprehensive overview of laboratory safety management principles, with a focus on the health protection aspects outlined by the Occupational Safety and Health Administration (OSHA) standards. It is designed to help laboratory personnel, safety officers, and managers understand and implement OSHA regulations in laboratory settings to ensure a safe working environment. Topics include hazard identification, risk assessment, personal protective equipment (PPE), chemical safety, and emergency response, with the goal of enhancing safety and compliance in laboratories across various industries.

TRAINING OBJECTIVES

By the end of this course, participants will be able to:

- Understand the key OSHA regulations and standards applicable to laboratory environments.
- Identify common hazards in laboratory settings and implement strategies to mitigate risks.
- Learn about the effective use of personal protective equipment (PPE) and other safety controls.

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- Develop and implement a laboratory safety management plan that aligns with OSHA standards.
- Understand emergency response procedures and the role of training in maintaining a safe laboratory environment.

WHO SHOULD ATTEND?

- Laboratory supervisors, managers, and staff in research, industrial, and academic laboratories.
- Health and safety officers responsible for laboratory safety and compliance.
- OSHA compliance officers and professionals working with laboratory safety.
- Anyone involved in the implementation of safety management systems in laboratory environments.
- Industrial hygienists and other professionals focused on employee health and safety.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM: www.definettraining.com

Day 1: Introduction to Laboratory Safety and OSHA Standards

- Overview of OSHA regulations relevant to laboratory environments (29 CFR 1910.1450 and other applicable standards).
- Understanding the role of OSHA in laboratory safety and health protection.
- Key principles of laboratory safety management.
- The hierarchy of controls: Engineering, administrative, and personal protective equipment (PPE).

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- Regulatory frameworks for workplace safety: Hazard Communication Standard (HCS), Laboratory Standard, and Chemical Hygiene Plan.

Day 2: Hazard Identification and Risk Assessment in Laboratories

- Types of hazards in laboratories: Chemical, biological, physical, and ergonomic hazards.
- Methods for identifying and assessing risks in laboratory settings.
- Conducting hazard assessments and creating a safety plan based on findings.
- Workplace monitoring and environmental controls for hazardous substances.
- Safe chemical storage, handling, and disposal practices.

Day 3: Personal Protective Equipment (PPE) and Engineering Controls

- Types of personal protective equipment used in laboratories (gloves, goggles, lab coats, respirators).
- Selecting appropriate PPE based on risk assessment and OSHA guidelines.
- Understanding engineering controls: Ventilation systems, fume hoods, safety showers, and eyewash stations.
- Proper use and maintenance of PPE.
- Ensuring compliance with OSHA's PPE regulations.

Day 4: Laboratory Safety Management Systems and Training

- Developing a Laboratory Safety Management Program (LSMP).
- Writing and implementing a Chemical Hygiene Plan (CHP).
- Conducting regular safety audits and inspections in the laboratory.
- Emergency procedures: Spill response, first aid, and evacuation plans.
- Training laboratory staff on OSHA safety standards and best practices.

Day 5: Emergency Response, Health Protection, and Best Practices

- Creating and implementing emergency response plans: Fire, chemical spills, electrical hazards, and biological accidents.
- First aid and medical response in laboratory settings.
- Health protection aspects of laboratory work: Exposure monitoring, health surveillance, and maintaining worker well-being.
- Laboratory accident investigation and reporting.

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NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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