



*Training Course:
Safety in Factories and Chemical Laboratories*

*3 - 7 November 2025
Barcelona (Spain)
Grupotel Gran Via 678*

Training Course: Safety in Factories and Chemical Laboratories

Training Course code: HE235233 From: 3 - 7 November 2025 Venue: Barcelona (Spain) - Grupotel Gran Via 678 Training Course Fees: 6000 € Euro

Introduction

Safety is paramount in the workplace, particularly in factories and chemical laboratories where the handling of potentially hazardous materials and machinery is a daily occurrence. Ensuring the well-being of employees and preventing accidents is a fundamental responsibility of every organization. To address this, we have developed a comprehensive 5-day training program on "Safety in Factories and Chemical Laboratories." This program aims to equip employees with the knowledge and skills needed to identify and mitigate risks, handle chemicals safely, and respond effectively to emergencies. By adhering to safety guidelines and best practices, we can create a secure and productive work environment.

Objectives

- **Educate and Raise Awareness:** Increase awareness among employees about the importance of safety in factories and chemical laboratories, and the potential hazards they may encounter.
- **Regulatory Compliance:** Ensure that all participants understand and comply with local, state, and federal safety regulations and guidelines, including those set by organizations like OSHA.
- **Hazard Identification:** Equip participants with the skills to identify workplace hazards, including chemical hazards, and assess associated risks.
- **Chemical Safety:** Provide knowledge on the classification and safe handling of chemicals, including proper storage, labeling, and emergency response.
- **Personal Protective Equipment (PPE):** Familiarize participants with various types of PPE and how to select, use, and maintain them.
- **Emergency Preparedness:** Train participants in responding to emergencies, including fire safety, first aid, and medical emergencies.
- **Safe Equipment Operation:** Ensure that participants can operate machinery and equipment safely, following established procedures.
- **Safety Culture and Reporting:** Encourage a culture of safety where employees are proactive in reporting concerns and incidents, and continually seek opportunities to improve safety in the workplace.

Target Audience

- Factory workers and operators
- Laboratory technicians and researchers

- Chemical engineers and scientists
- Safety officers and managers
- Maintenance and facility management personnel
- Supervisors and team leaders
- Anyone working in an environment where chemicals are handled or machinery is operated

Outline

Day 1: Introduction to Safety and Regulatory Compliance

- Welcome and Overview
 - Introduction to the training program
 - The importance of safety in the workplace
- Regulatory Framework
 - Understanding local, state, and federal safety regulations
 - OSHA Occupational Safety and Health Administration guidelines

Day 2: Hazard Identification and Chemical Safety

- Identifying Hazards
 - Recognizing potential workplace hazards
 - Identifying chemical hazards
- Chemical Classification
 - Identifying different chemical hazards flammable, corrosive, toxic, etc.
 - Reading chemical labels and safety data sheets SDS

Day 3: Personal Protective Equipment PPE and Safe Equipment Operation

- Introduction to PPE
 - The importance of PPE in the workplace
 - Types of PPE gloves, goggles, respirators, etc.
- Safe Equipment Operation
 - Operating machinery safely
 - Lockout/Tagout procedures

Day 4: Emergency Preparedness and Reporting

- Fire Safety
 - Fire prevention measures
 - Using fire extinguishers and emergency exits
- First Aid and Medical Emergencies
 - Basic first aid procedures
 - Emergency response and contacting medical professionals
- Creating a Culture of Safety
 - Encouraging safe practices among employees
 - Reporting safety concerns and incidents

Day 5: Chemical Handling and Conclusion

- Safe Chemical Handling
 - Proper chemical storage and labeling
 - Safe transport and transfer of chemicals
- Emergency Procedures for Chemical Spills
 - Responding to chemical spills
 - Evacuation procedures
- Recap and Review
 - Summarizing key safety points
- Certification and Follow-up
 - Providing certificates of completion
 - Encouraging ongoing safety awareness and improvement

Registration form on the Training Course: Safety in Factories and Chemical Laboratories

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

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