



*Training Course:
Exposure and Chemical Monitoring*

7 - 11 December 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Exposure and Chemical Monitoring

Training Course code: HE235881 From: 7 - 11 December 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3875 € Euro

Introduction

Occupational exposure to hazardous chemicals remains one of the most significant risks in industrial, laboratory, and healthcare environments. Effective exposure and chemical monitoring are critical in ensuring worker safety, regulatory compliance, and environmental protection. This specialized training program is designed by Global Horizon Training Center to provide participants with comprehensive knowledge and practical skills for assessing, monitoring, and managing chemical exposures in the workplace. The program combines theoretical foundations with real-world applications aligned with global standards such as OSHA, NIOSH, ACGIH, and REACH.

Objectives

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

- Understand the principles of chemical exposure and toxicology.
- Identify and evaluate sources of chemical hazards in various work environments.
- Apply risk assessment techniques to determine exposure levels.
- Select appropriate monitoring equipment and techniques for airborne and surface contamination.
- Interpret results from chemical monitoring and make informed safety decisions.
- Implement control measures to reduce or eliminate hazardous exposures.
- Ensure compliance with international regulations and standards.
- Develop and maintain effective chemical hygiene plans and documentation.

Organizational Impact

Organizations that invest in this training program can expect the following outcomes:

- Enhanced health and safety performance in the workplace.
- Reduced incidents of occupational illness and chemical exposure.
- Increased employee awareness and responsibility for chemical safety.
- Improved regulatory compliance with national and international safety laws.
- Development of competent safety teams capable of performing internal assessments.

- Strengthened corporate reputation as a health-conscious and environmentally responsible organization.

Target Audience

This program is ideally suited for:

- Health, Safety, and Environment HSE professionals
- Industrial hygienists
- Laboratory managers and technicians
- Chemical engineers and plant managers
- Environmental compliance officers
- Occupational health professionals
- Safety auditors and inspectors
- Anyone responsible for workplace safety and chemical management

Outlines

Day 1: Introduction to Chemical Exposure and Toxicology

- Overview of chemical hazards and health effects
- Types of chemical exposure: inhalation, dermal, ingestion, injection
- Dose-response relationships and threshold limit values TLVs
- Legal and regulatory framework OSHA, REACH, GHS, etc.
- Introduction to Material Safety Data Sheets MSDS/SDS

Day 2: Identification and Risk Assessment of Chemical Hazards

- Chemical hazard identification methods
- Job hazard analysis and workplace walkthroughs
- Routes of exposure and exposure pathways
- Risk assessment models qualitative and quantitative
- Control Banding and Hierarchy of Controls

Day 3: Chemical Monitoring Techniques and Equipment

- Air sampling strategies: personal and area sampling
- Monitoring gases, vapors, and particulates
- Surface and dermal exposure sampling
- Direct-reading instruments and passive dosimeters
- Equipment calibration and maintenance

Day 4: Data Interpretation and Regulatory Compliance

- Data analysis and comparison with exposure limits OSHA PELs, ACGIH TLVs, NIOSH RELs
- Time-Weighted Average TWA, Short-Term Exposure Limit STEL, Ceiling limits
- Interpreting laboratory results and trend analysis
- Reporting procedures and regulatory documentation
- Recordkeeping and exposure registries

Day 5: Control Measures and Exposure Management Programs

- Engineering and administrative controls
- Personal Protective Equipment PPE for chemical protection
- Chemical Hygiene Plans CHPs and Standard Operating Procedures SOPs
- Emergency response planning for chemical incidents
- Training, communication, and awareness programs for employees

Registration form on the Training Course: Exposure and Chemical Monitoring

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

Delegate Information

Full Name (Mr / Ms / Dr / Eng):
Position:
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Personal E-Mail:
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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):
Position:
Telephone / Mobile:
Personal E-Mail:
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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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