



Industrial Hygiene and Occupational Health for a Fundamental Level

14 – 18 June 2027
Paris (France)



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Introduction:

The Industrial Hygiene and Occupational Health for a Fundamental Level course is designed to provide essential knowledge to professionals aiming to improve workplace health and safety standards. This course emphasizes the importance of identifying, evaluating, and controlling hazards that may compromise employee well-being. It provides a foundational understanding of the principles of occupational health and hygiene, introducing participants to the practical applications of these principles in various industrial settings.

Learners will explore methods for detecting, preventing, and controlling hazards through real-life case studies and interactive examples. The Industrial Hygiene and Occupational Health for a Fundamental Level training course aligns with current regulations and best practices, ensuring that participants have up-to-date knowledge and skills. It focuses on industrial hygiene equipment, risk communication, and exposure monitoring tools essential for compliance and safety.

Attendees in this Industrial Hygiene and Occupational Health for a Fundamental Level program will also gain a better understanding of occupational diseases and health surveillance techniques. Upon completion, participants will be able to apply core principles of industrial hygiene and occupational health to establish safer, compliant, and healthier work environments.

Targeted Groups:

The Industrial Hygiene and Occupational Health for a fundamental level training course, targeting professionals seeking specialized knowledge and skills:

- Entry-level professionals in occupational health and hygiene.
- Safety officers and industrial hygiene technicians.
- Supervisors and operations managers oversee hazardous work areas.
- Human resources professionals manage health and wellness programs.
- Environmental health and safety EHS team members.
- Students studying occupational health and industrial hygiene.
- Individuals transitioning into roles related to industrial occupational health.
- Compliance auditors and workplace inspection personnel.
- New hires in industries with physical, chemical, or biological exposure risks.
- Professionals looking to advance in occupational health and hygiene training.

Course Objectives:

Participants will achieve the following objectives by completing Industrial Hygiene and Occupational Health for a Fundamental Level course:

- Define the principles of industrial hygiene and understand how they are applied in the workplace.
- Identify and describe various workplace hazards, including chemical, physical, and biological risks.
- Distinguish between industrial hygiene and occupational health responsibilities and scopes.
- Measure and analyze exposure using basic industrial hygiene equipment and tools.
- Apply appropriate hazard control measures based on the hierarchy of controls.
- Interpret exposure limits and evaluate compliance with occupational standards.
- Develop and implement workplace safety protocols to reduce health risks.
- Demonstrate the use of industrial hygiene analysis in real-world scenarios.
- Assess the effectiveness of occupational health hygiene programs.
- Recognize symptoms of occupational diseases and respond with suitable interventions.
- Integrate regulatory knowledge into hazard prevention planning.
- Evaluate emergency preparedness plans to ensure compliance with safety regulations.
- Recommend safe work practices tailored to specific hazards.
- Utilize monitoring methods for continuous workplace health surveillance.
- Communicate risks clearly and effectively to workers and stakeholders.
- Support initiatives that improve industrial occupational health and safety.

Targeted Competencies:

Participants will gain the following competencies during the Industrial Hygiene and Occupational Health for a Fundamental Level program:

- Competency in identifying and evaluating industrial hygiene hazards.
- Application of occupational exposure assessment techniques.
- Use of tools for industrial hygiene monitoring.
- Ability to interpret and enforce regulatory compliance standards.
- Knowledge of emergency response planning in hazardous environments.
- Skills in developing health promotion strategies.
- Communication proficiency for workplace risk awareness.
- Capacity to conduct workplace audits and safety inspections.
- Ability to design health surveillance and wellness programs.

Course Content:

Unit 1: Introduction to Industrial Hygiene and Occupational Health:

- Understand the definition of industrial hygiene and its historical development.
- Define the scope and goals of occupational health and hygiene.
- Explore the relationship between worker health and workplace design.
- Review essential terms and definitions in industrial occupational health.
- Identify the roles of industrial hygiene technicians and safety professionals.
- Examine the significance of regulatory frameworks, such as OSHA, ACGIH, and NIOSH.
- Understand legal responsibilities and workplace obligations.
- Review case studies where inadequate hygiene led to health crises.
- Introduce components of successful workplace health programs.
- Explain why industrial hygiene training is crucial in today's industries.

Unit 2: Hazard Identification and Risk Assessment:

- Learn methods to identify chemical, physical, biological, and ergonomic hazards.
- Define and interpret threshold limit values TLVs and permissible exposure limits PELs.
- Explore industrial hygiene hazards through real-world industrial examples.
- Utilize basic assessment tools for hazard detection.
- Apply the hazard control hierarchy in assessment strategies.
- Analyze risks associated with airborne contaminants and noise.
- Identify routes of exposure such as inhalation, skin absorption, and ingestion.
- Use risk matrices and scoring systems for qualitative assessment.
- Assess hazards in various settings, such as manufacturing, laboratories, and warehouses.
- Integrate findings into hazard communication and prevention plans.

Unit 3: Workplace Exposure and Control Measures:

- Describe types of exposures: dust, vapors, fumes, and biological agents.
- Evaluate the impact of poor ventilation on indoor air quality.
- Select industrial hygiene equipment to monitor and control exposure to hazardous substances.
- Implement engineering controls, such as local exhaust and isolation systems.
- Apply administrative controls such as job rotation and restricted access.
- Choose suitable PPE for respiratory, dermal, and ocular protection.
- Design work practices to support hygienic behavior and minimize risk.
- Assess the role of hygiene practices in food, pharma, and chemical sectors.
- Review PPE standards, fit testing, and maintenance practices.
- Understand spill containment and decontamination procedures.

Unit 4: Occupational Diseases and Health Surveillance:

- Identify symptoms and causes of common occupational illnesses.
- Analyze cases of respiratory conditions from prolonged exposure.
- Examine the link between chemical exposure and skin diseases.
- Implement occupational health hygiene monitoring protocols.
- Design health surveillance programs aligned with regulatory standards.
- Discuss the early detection of chronic illnesses such as asthma and silicosis.
- Evaluate methods for health screening and baseline testing.
- Introduce programs for mental health and ergonomic wellness.
- Explore training techniques to increase awareness among workers.
- Present industry-specific case studies on illness prevention strategies.

Unit 5: Emergency Preparedness and Regulatory Compliance:

- Build comprehensive emergency preparedness plans.
- Conduct drills for chemical spills, fires, and exposure to biohazards.
- Define legal compliance requirements for various industries.
- Train staff in incident response and reporting procedures.
- Conduct an industrial hygiene analysis post-incident to detect failures.
- Review laws and standards from OSHA, ISO, and national regulations.
- Prepare audit-ready documentation and safety inspection records.
- Promote a proactive culture for occupational health and hygiene.
- Develop internal policies that reflect best practices and meet relevant requirements.
- Maintain continuous improvement through feedback and performance metrics.

Final Insights & Key Takeaways:

Industrial hygiene and occupational health form the backbone of proactive safety and wellness strategies in the workplace. By recognizing and controlling hazards early, professionals can drastically reduce the incidence of workplace-related diseases. Applying regulatory knowledge and preventive measures ensures both legal compliance and employee protection. Investing in foundational knowledge through this training leads to more sustainable and safer work environments, as well as better organizational outcomes.