Industrial Hygiene and Occupational Exposure Assessment Training Course

3 – 7 May 2027
Paris

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Training Center

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Ref: 1350_199754 **Date:** 3 – 7 May 2027 **Location:** Paris **Fees:** 5700 Euro

Overview

Industrial Hygiene and Occupational Exposure Assessment Training Course is a one-week advanced course for industrial hygienists, occupational health and safety professionals, safety engineers, supervisors, and operational leaders who leave with an Industrial Hygiene Assessment Plan. Participants apply workplace health hazard recognition, occupational exposure assessment, exposure monitoring, sampling strategy, exposure data interpretation, and control verification across chemical, physical, biological, and ergonomic hazards. Agile Leaders Training Center presents industrial hygiene through evidence-based field decisions and documented control planning.

Who Should Attend

- Functions responsible for anticipating and recognizing workplace health hazards
- Teams responsible for occupational exposure assessment and monitoring
- Personnel responsible for sampling design, instrument selection, and data quality
- Operations responsible for selecting and maintaining exposure controls
- Leaders responsible for communicating health-risk evidence and priorities

The course assumes participants already support workplace risk assessment or operational controls and leaves out clinical diagnosis, medical treatment, and laboratory accreditation.

Departments and Industries

The course supports departments and industries that assess workplace health hazards and verify exposure controls.

- Manufacturing, chemicals, and process operations
- Energy, utilities, mining, and construction
- Healthcare, laboratories, and waste services
- Facilities, maintenance, and engineering functions
- Occupational health, safety, risk, and operational assurance teams

Learning Objectives

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

- Analyze work processes, exposure pathways, and similar exposure groups
- Build task-based and full-shift sampling strategies
- Use monitoring methods and data-quality checks
- Evaluate exposure results, variability, and decision uncertainty
- Prioritize controls through the hierarchy of controls
- Build an Industrial Hygiene Assessment Plan

Course Agenda

Day 1: Exposure Assessment Scope

- Anticipation Recognition Evaluation and Control Framework
- Work Process and Task Inventory Map
- Chemical Physical Biological and Ergonomic Hazard Profile
- Exposure Pathway Mapping Method
- Similar Exposure Group Definition Worksheet

Day 2: Sampling Strategy and Measurement

- Qualitative Exposure Rating Matrix
- Task-Based and Full-Shift Sampling Strategy
- Personal Area and Direct-Reading Monitoring Selection
- Sampling Equipment Calibration Checklist
- Chain-of-Custody and Field Documentation Record

Day 3: Exposure Data Interpretation

- Time-Weighted Exposure Calculation Method
- Exposure Distribution and Variability Analysis
- Data Quality and Detection-Limit Review
- Exposure Profile Decision Categories
- Uncertainty and Additional Data Decision Tree

Day 4: Control Selection and Verification

- Hierarchy of Controls Selection Matrix
- Engineering and Work-Practice Control Evaluation
- Administrative Control and PPE Dependency Review
- Control Performance Verification Plan
- Exposure Findings Communication Brief

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Day 5: Industrial Hygiene Assessment Practice

- Exercise: Work Process and Similar Exposure Group Analysis
- Exercise: Sampling Strategy and Monitoring Method Design
- Exercise: Exposure Data Interpretation and Decision Record
- Exercise: Control Selection and Verification Design
- Capstone Exercise: Industrial Hygiene Assessment Plan

Practical Exercises

The course uses suggested activities from manufacturing, construction, healthcare, utilities, and maintenance operations.

- Suggested activity: map tasks, exposure pathways, hazard agents, and similar exposure groups for a mixed-operation workplace.
- Suggested activity: choose personal, area, task-based, and full-shift monitoring methods and document calibration and field-quality controls.
- Suggested activity: interpret variable exposure results and decide whether controls or additional data are required.
- Suggested activity: build an Industrial Hygiene Assessment Plan with priorities, owners, controls, verification, and communication steps.

FAQs

What is industrial hygiene and occupational exposure assessment?

Industrial hygiene and occupational exposure assessment identify and characterize workplace health hazards, measure or estimate exposure, interpret the evidence, and guide controls that reduce worker contact with harmful agents.

Who suits industrial hygiene training, and what does it assume?

Industrial hygiene training suits professionals responsible for workplace health risks, monitoring, controls, or assurance and assumes experience with workplace risk assessment or operational processes.

How does occupational exposure assessment differ from general safety risk assessment?

Occupational exposure assessment concentrates on health agents, exposure pathways, sampling, measurement variability, and exposure profiles; general safety risk assessment also addresses event-based hazards such as impacts, falls, and equipment incidents.

How are industrial hygiene sampling strategies selected?

Industrial hygiene sampling strategies are selected from the decision purpose, agent, exposure pathway, task duration, worker group, expected variability, available methods, and the evidence needed to judge controls.

How does exposure monitoring support control verification?

Exposure monitoring supports control verification by comparing consistent measurements before and after implementation, checking operating conditions, documenting uncertainty, and identifying whether further action or additional evidence is needed.

Conclusion

The course connects hazard recognition, exposure pathways, sampling design, measurement, interpretation, control selection, and verification. Participants take back an Industrial Hygiene Assessment Plan that records priorities, similar exposure groups, methods, controls, responsibilities, and review points. The plan changes how workplace health evidence is collected, communicated, and converted into control decisions.