Industrial Hygiene and Occupational Safety Training Course

Professional Development Training Course Outline

Category	General Training	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Industrial Hygiene and Occupational Safety is a critical discipline focused on anticipating, recognizing, evaluating, and controlling workplace hazards that may affect worker health, safety, and overall productivity. In today's rapidly evolving industrial landscape, organizations are increasingly prioritizing OSHA compliance, ISO 45001 standards, workplace risk assessment, hazard control strategies, and occupational exposure management to create safer and more resilient work environments. Industrial Hygiene and Occupational Safety Training Course is designed to equip professionals with advanced competencies in identifying chemical, physical, biological, and ergonomic hazards while implementing proactive safety management systems aligned with global best practices.

With rising global emphasis on EHS (Environment, Health & Safety) management systems, industrial risk mitigation, workplace accident prevention, and safety culture transformation, this program delivers a structured, practical, and compliance-driven learning experience. Participants will gain hands-on knowledge in industrial hygiene monitoring, safety audits, PPE optimization, incident investigation, and emergency preparedness planning. The course integrates real-world case studies from high-risk industries such as oil & gas, construction, manufacturing, and healthcare, ensuring learners can apply modern safety strategies effectively in real operational environments.

Programme Curriculum

Industrial Hygiene and Occupational Safety Training Course

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Course Duration

5 days

Course Objectives

1. Implement Occupational Health & Safety Management Systems (OHSMS) aligned with ISO 45001
2. Conduct advanced workplace hazard identification and risk assessment (HIRA)
3. Apply industrial hygiene monitoring techniques for exposure control
4. Develop chemical safety and toxicology risk management strategies
5. Execute noise, dust, heat, and radiation exposure assessments
6. Strengthen PPE selection, usage, and compliance optimization
7. Perform incident investigation and root cause analysis (RCA)
8. Build effective safety culture and behavioral safety programs
9. Ensure OSHA regulatory compliance and legal safety standards adherence
10. Design emergency response and crisis management systems
11. Implement ergonomic risk reduction in workplace design
12. Improve EHS auditing and continuous improvement systems
13. Integrate sustainability and ESG-linked safety performance metrics

Target Audience

1. Safety Officers and EHS Managers
2. Industrial Hygienists
3. Health and Safety Engineers
4. Production and Plant Supervisors
5. HR and Compliance Managers
6. Construction Site Managers
7. Oil, Gas, and Energy Sector Professionals
8. Environmental Health Professionals and Consultants

Course Modules

Module 1: Fundamentals of Industrial Hygiene & Safety

- Principles of occupational health and safety
- Hierarchy of hazard control

- Exposure pathways
- Safety culture development
- Regulatory frameworks overview
- **Case Study:** Manufacturing plant chemical exposure reduction success story

Module 2: Workplace Hazard Identification & Risk Assessment (HIRA)

- Hazard classification techniques
- Risk matrix development
- Job Safety Analysis (JSA)
- Workplace inspections
- Risk prioritization methods
- **Case Study:** Construction site fall hazard risk elimination project

Module 3: Chemical Safety & Toxicology Management

- Chemical exposure limits
- MSDS/SDS interpretation
- Toxic substances control
- Storage and handling standards
- Spill prevention and response
- **Case Study:** Chemical leakage prevention in a pharmaceutical facility

Module 4: Physical Hazards Control

- Noise-induced hearing loss prevention
- Heat stress management
- Vibration exposure control
- Radiation safety basics
- Ventilation system design
- **Case Study:** Noise control program in heavy manufacturing plant

Module 5: Occupational Health Monitoring & Surveillance

- Health surveillance programs
- Biological monitoring techniques
- Air sampling and analysis
- Medical fitness assessments
- Exposure tracking systems
- **Case Study:** Long-term respiratory health improvement in mining operations

Module 6: PPE Management & Safety Equipment Optimization

- PPE selection criteria
- PPE standards and certifications
- Fit testing procedures
- Maintenance and replacement cycles
- Compliance enforcement strategies
- **Case Study:** PPE compliance transformation in oil refinery operations

Module 7: Incident Investigation & Emergency Response

- Accident investigation techniques
- Root cause analysis tools
- Emergency preparedness planning
- Fire safety systems
- Evacuation drills and simulations
- **Case Study:** Industrial fire incident response and recovery in warehouse facility

Module 8: Advanced EHS Management Systems & Auditing

- ISO 45001 implementation
- Safety performance indicators (KPIs)
- Internal and external audits
- Continuous improvement cycles
- Digital EHS tools and reporting systems
- **Case Study:** Digital safety transformation in multinational manufacturing company

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
21 Sep 2026	25 Sep 2026	Online	$1,000
21 Sep 2026	25 Sep 2026	Physical	$1,500
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com