Industrial Hygiene and Worker Protection Training Course

Professional Development Training Course Outline

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

Course Introduction

In today’s high-risk industrial environment, organizations must prioritize Industrial Hygiene, Worker Protection, Occupational Health and Safety, and Risk Management to ensure operational excellence and regulatory compliance. Industrial Hygiene and Worker Protection Training Course is designed to equip professionals with advanced knowledge of hazard identification, exposure assessment, toxic substance control, air quality monitoring, PPE compliance, and workplace safety culture. Participants will gain practical expertise in preventing occupational illnesses, reducing workplace incidents, and implementing internationally recognized safety standards across manufacturing, oil & gas, construction, mining, logistics, pharmaceuticals, and heavy industries.

The course integrates modern concepts such as Behavior-Based Safety (BBS), Safety Leadership, Industrial Ventilation, Ergonomics, Emergency Response Planning, Incident Investigation, and Environmental Health Monitoring. Through real-world case studies, interactive workshops, and practical demonstrations, learners will develop competencies to improve employee well-being, minimize operational risks, and support sustainable business performance. The program aligns with current global trends in ESG compliance, occupational risk reduction, ISO 45001 standards, and workforce resilience strategies.

Programme Curriculum

Industrial Hygiene and Worker Protection Training Course

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Course Duration

5 days

Course Objectives

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

1. Understand the principles of Industrial Hygiene Management Systems.
2. Identify workplace hazards using Advanced Risk Assessment Techniques.
3. Apply Occupational Exposure Monitoring methods effectively.
4. Implement Worker Protection Programs aligned with global standards.
5. Control chemical, biological, physical, and ergonomic hazards.
6. Conduct Air Quality Monitoring and contamination analysis.
7. Improve workplace safety using Behavior-Based Safety (BBS) strategies.
8. Select and manage Personal Protective Equipment (PPE) programs.
9. Develop effective Emergency Response and Crisis Management Plans.
10. Perform Incident Investigation and Root Cause Analysis.
11. Enhance compliance with ISO 45001, OSHA, and HSE regulations.
12. Promote Safety Leadership and Safety Culture Transformation.
13. Integrate Sustainability, ESG, and Worker Wellness Initiatives into operations.

Target Audience

1. HSE Managers and Safety Officers
2. Industrial Hygienists and Occupational Health Professionals
3. Plant Managers and Operations Supervisors
4. Maintenance and Engineering Personnel
5. Construction and Project Managers
6. Environmental Health and Safety (EHS) Coordinators
7. Oil & Gas, Manufacturing, and Mining Professionals
8. HR, Compliance, and Risk Management Personnel

Course Modules

Module 1: Fundamentals of Industrial Hygiene

- Introduction to Industrial Hygiene principles
- Occupational health hazards and exposure routes
- Workplace health risk identification

- Legal and regulatory compliance requirements
- Case Study: Industrial chemical exposure incident analysis

Module 2: Hazard Identification and Risk Assessment

- Hazard recognition techniques
- Job Safety Analysis (JSA)
- Quantitative and qualitative risk assessment
- Risk control hierarchy implementation
- Case Study: Risk assessment in a manufacturing facility

Module 3: Chemical and Biological Hazard Control

- Toxicology fundamentals
- Hazard Communication Standards (HAZCOM)
- Chemical storage and handling procedures
- Biological contamination prevention
- Case Study: Chemical spill emergency response

Module 4: Air Quality and Industrial Ventilation

- Airborne contaminant monitoring
- Ventilation system design principles
- Dust, fumes, and vapor control
- Indoor air quality improvement strategies
- Case Study: Ventilation failure in confined spaces

Module 5: Physical Hazards and Ergonomics

- Noise, vibration, heat, and radiation hazards
- Ergonomic risk factor assessment
- Musculoskeletal disorder prevention
- Workplace ergonomic improvement programs
- Case Study: Repetitive strain injury prevention project

Module 6: Personal Protective Equipment (PPE) and Worker Protection

- PPE selection and maintenance
- Respiratory protection programs
- Protective clothing and equipment standards
- PPE compliance monitoring
- Case Study: PPE failure and corrective actions

Module 7: Emergency Preparedness and Incident Investigation

- Emergency response planning
- Fire safety and evacuation procedures
- Incident reporting systems
- Root Cause Analysis (RCA) methodologies
- Case Study: Industrial fire and emergency response evaluation

Module 8: Safety Leadership and Continuous Improvement

- Developing a proactive safety culture
- Behavior-Based Safety (BBS) implementation
- Safety performance metrics and KPIs
- Continuous improvement and auditing
- Case Study: Safety culture transformation success story

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

23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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

Register Online Now

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