Training Course on Safety Risk Management and Hazard Identification

Professional Development Training Course Outline

Category	Aviation and Airport Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Training Course on Safety Risk Management and Hazard Identification is meticulously designed to equip professionals with the foundational knowledge and practical skills necessary to proactively identify, assess, and control workplace hazards. In today's dynamic industrial landscape, **proactive safety measures** are paramount for fostering a resilient **safety culture**, minimizing **occupational risks**, and ensuring **regulatory compliance**. Participants will delve into cutting-edge methodologies and best practices for creating a secure and productive work environment, leveraging **risk assessment frameworks** and **hazard control strategies**.

The program emphasizes a holistic approach to workplace safety, moving beyond reactive incident response to embrace **preventive safety management**. Through a blend of theoretical insights and practical applications, attendees will master the art of **risk analysis**, understand various **hazard classifications**, and develop robust **safety protocols**. This training is crucial for organizations aiming to enhance their **operational excellence**, reduce **incident rates**, and build a reputation for **workplace wellbeing** and **employee safety**.

Programme Curriculum

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Course Objectives

1. Develop advanced capabilities in identifying diverse workplace hazards (physical, chemical, biological, ergonomic, psychosocial).
2. Learn to systematically evaluate the likelihood and severity of risks using **qualitative and quantitative risk analysis**.
3. Design and apply hierarchical **control measures** (elimination, substitution, engineering, administrative, PPE) to mitigate identified risks.
4. Understand the principles and components of a world-class SMS framework for continuous **safety improvement**.
5. Navigate and adhere to local and international **Occupational Safety and Health (OSH) regulations** and standards.
6. Cultivate an organizational mindset that prioritizes safety, encourages **hazard reporting**, and promotes **worker participation**.
7. Conduct thorough **root cause analysis** of safety incidents to prevent recurrence and derive actionable insights.
8. Explore the application of **digital safety tools**, **predictive analytics**, and **AI in risk management**.
9. Develop and implement effective **emergency response plans** and procedures.
10. Enhance skills in conveying safety information, conducting **safety briefings**, and promoting **safety awareness**.
11. Conduct systematic evaluations to ensure the effectiveness of **safety controls** and compliance.
12. Understand best practices for ensuring safety when working with **external contractors** and suppliers.
13. Learn to incorporate Environmental, Social, and Governance factors into **holistic safety strategies**.

Organizational Benefits

- Significantly decrease workplace accidents, injuries, and occupational illnesses.
- Avoid penalties and legal liabilities by meeting national and international safety standards.
- Foster a safer work environment, leading to increased trust, motivation, and efficiency.
- Minimize expenses associated with accidents, workers' compensation, insurance premiums, and downtime.
- Position the company as a responsible and ethical employer, attracting and retaining top talent and clients.

- Shift from reactive problem-solving to proactive hazard prevention, enhancing operational resilience.
- Empower employees to actively participate in safety initiatives, leading to continuous improvement.

Target Audience

1. Safety Managers and Officers
2. HSE Professionals
3. Supervisors and Team Leaders
4. Operations Managers
5. Engineers (Process, Mechanical, Electrical)
6. Compliance Officers
7. Human Resources Professionals
8. Anyone responsible for workplace safety and health.

Course Outline

Module 1: Introduction to Safety Risk Management and Hazard Identification

- Defining Safety Risk Management (SRM) and Hazard Identification (HI).
- The importance of proactive safety in modern industries.
- Legal and ethical responsibilities in workplace safety.
- Overview of global safety standards and frameworks (e.g., ISO 45001, OSHA).
- *Case Study: Bhopal Gas Tragedy – Analyzing the lack of hazard identification and risk management.*

Module 2: Fundamentals of Hazard Identification

- Types of hazards: physical, chemical, biological, ergonomic, psychosocial.
- Techniques for hazard identification: inspections, checklists, job hazard analysis (JHA), safety audits.
- Sources of hazard information: incident reports, safety data sheets (SDS), worker feedback.
- Understanding the hazard-risk relationship.
- *Case Study: Identifying ergonomic hazards in an office environment and their impact on employee health.*

Module 3: Principles of Risk Assessment

- Defining risk, likelihood, and severity.
- Qualitative vs. quantitative risk assessment methods.
- Risk matrices and their application in prioritizing risks.
- Developing risk assessment teams and roles.
- *Case Study: Assessing the risk of machinery malfunction in a manufacturing plant using a risk matrix.*

Module 4: Hazard Control Hierarchy

- Understanding the hierarchy of controls: elimination, substitution, engineering controls, administrative controls, Personal Protective Equipment (PPE).
- Practical application of each control level.
- Cost-benefit analysis of control measures.
- Developing effective control implementation plans.

- *Case Study: Implementing engineering controls to reduce noise exposure in a factory.*

Module 5: Job Hazard Analysis (JHA) and Safe Work Procedures (SWP)

- Steps involved in conducting a JHA.
- Developing comprehensive Safe Work Procedures (SWPs).
- Integrating JHA and SWP into daily operations.
- Worker involvement in JHA development.
- *Case Study: Creating a JHA for a confined space entry operation and developing its SWP.*

Module 6: Incident Investigation and Root Cause Analysis

- Purpose and benefits of incident investigation.
- Steps for effective incident investigation (data collection, analysis, report).
- Techniques for root cause analysis: 5 Whys, Fishbone Diagram, Fault Tree Analysis.
- Learning from incidents and implementing corrective actions.
- *Case Study: Investigating a slip-and-fall incident to identify underlying systemic failures.*

Module 7: Safety Management Systems (SMS) Overview

- Components of an effective Safety Management System (SMS).
- Planning, implementation, operation, checking, and corrective action in SMS.
- Performance monitoring and continuous improvement in SMS.
- Auditing and reviewing the SMS.
- *Case Study: Implementing an SMS in a small construction company and its initial challenges.*

Module 8: Legal and Regulatory Compliance in Safety

- Overview of key national and international OSH legislation.
- Understanding legal obligations of employers and employees.
- Consequences of non-compliance.
- Record-keeping and reporting requirements.
- *Case Study: Analyzing the legal implications of a workplace fatality due to non-compliance with safety regulations.*

Module 9: Developing a Strong Safety Culture

- Elements of a positive safety culture.
- Role of leadership in promoting safety.
- Employee engagement and participation in safety initiatives.
- Behavioral safety principles and their application.
- *Case Study: Transforming a reactive safety culture to a proactive one in a logistics company.*

Module 10: Emergency Preparedness and Response

- Developing emergency response plans (ERPs).
- Crisis communication strategies.
- Drills and exercises for emergency readiness.
- First aid and emergency medical response.
- *Case Study: Developing an ERP for a chemical spill in a laboratory setting.*

Module 11: Safety Audits and Inspections

- Types of safety audits (internal, external, compliance).

- Planning and conducting effective safety inspections.
- Reporting and follow-up on audit findings.
- Key performance indicators (KPIs) for safety performance.
- *Case Study: Conducting a mock safety audit of a manufacturing facility and identifying areas for improvement.*

Module 12: Contractor Safety Management

- Pre-qualification and selection of safe contractors.
- Contractor safety agreements and performance monitoring.
- Managing interfaces between host and contractor safety systems.
- Communication and coordination for multi-employer worksites.
- *Case Study: Managing safety risks when engaging a new construction contractor for a major project.*

Module 13: Human Factors in Safety

- Understanding human error and its causes.
- Fatigue management and stress reduction.
- Communication breakdowns and their impact on safety.
- Training and competence in preventing human error.
- *Case Study: Analyzing human factors contributing to an aviation incident and proposing mitigation strategies.*

Module 14: Integrating Environmental and Health Considerations

- Synergies between safety, health, and environmental management.
- Hazardous waste management and environmental compliance.
- Occupational health surveillance and wellness programs.
- Sustainable safety practices.
- *Case Study: Developing an integrated EHS program for a mining operation.*

Module 15: Advanced Topics and Future Trends in Safety

- Predictive analytics and big data in safety.
- Artificial Intelligence (AI) and Machine Learning (ML) for hazard detection.
- Wearable technology for worker safety.
- Cybersecurity risks in operational technology (OT) environments.
- *Case Study: Exploring the use of drones for remote hazard inspection in large industrial complexes.*

Training Methodology

This training course will employ a dynamic and interactive methodology to ensure maximum learning and engagement. This includes:

- **Interactive Lectures and Presentations:** Clear and concise delivery of theoretical concepts.
- **Group Discussions and Brainstorming:** Encouraging participant interaction and knowledge sharing.
- **Practical Exercises and Workshops:** Hands-on application of hazard identification and risk assessment techniques.
- **Case Studies Analysis:** Real-world examples to illustrate concepts and facilitate problem-solving.

- **Role-Playing and Simulations:** Experiential learning for incident investigation and emergency response.
- **Video Demonstrations:** Visual aids to enhance understanding of complex topics.
- **Q&A Sessions:** Opportunities for clarification and addressing specific participant concerns.
- **Quizzes and Assessments:** To gauge understanding and reinforce learning.
- **Customized Action Planning:** Participants will develop personalized plans for applying learned skills in their workplaces.

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

Register Online Now

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