

HAZARD TYPES & ANALYSIS

Start Date:	10/01/2027	End Date:	14/01/2027
Categories:	HSSE	Venues:	Dubai
Formats:	In Person	Instructors:	

OVERVIEW

This comprehensive course equips participants with the knowledge and practical skills needed to identify, classify, and analyze various workplace hazards across diverse industries. From physical and chemical hazards to ergonomic and psychosocial risks, the course provides a solid foundation in hazard identification and risk analysis techniques. Participants will be trained on how to apply hazard analysis methods effectively to mitigate risks and enhance occupational safety in compliance with international standards.

OBJECTIVES

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

- Identify and classify different types of workplace hazards.
- Conduct comprehensive hazard assessments using standardized tools and methods.
- Analyze root causes of incidents and near misses.
- Apply risk assessment models to evaluate hazard severity and likelihood.
- Design appropriate control measures based on the hierarchy of controls.
- Interpret regulatory requirements and international standards related to hazard analysis.
- Develop proactive hazard prevention strategies.
- Integrate hazard analysis into safety management systems.

COURSE OUTLINE

- Introduction to Workplace Hazards
- Categories of Hazards: Physical, Chemical, Biological, Ergonomic, and Psychosocial
- Principles of Hazard Identification and Recognition
- Techniques for Hazard Analysis and Risk Assessment
- Root Cause Analysis and Incident Investigation
- The Hierarchy of Hazard Controls
- Legal and Regulatory Compliance in Hazard Management
- Case Studies in Industrial Hazard Analysis
- Integrating Hazard Analysis into Safety Management Systems
- Workshop: Conducting a Complete Hazard Analysis

TARGET AUDIENCE

This course is designed for safety officers, engineers, supervisors, operations managers, compliance officers, risk assessors, maintenance staff, and anyone involved in occupational safety and health practices across various industries including manufacturing, oil & gas, construction, and logistics.

METHODOLOGY

This training adopts a practical and participatory approach that includes instructor-led lectures, group discussions, hands-on workshops, hazard identification exercises, case studies, and interactive simulations. Participants will engage in real-life scenarios to reinforce learning and apply techniques in analyzing and controlling hazards effectively.

CONCLUSION

Participants will complete this program with an in-depth understanding of workplace hazards, empowered to assess and mitigate risks proactively. They will be better equipped to contribute to safer working environments and ensure compliance with health and safety regulations.

DAILY AGENDA

Day 1: Understanding Hazard Types & Spotting Exercises

Understanding Hazard Types, Identifying Physical and Chemical Hazards, Biological and Environmental Hazards, Workshop: Hazard Spotting Exercise, Review and Q&A.

Day 2: Advanced Hazard Recognition & Risk Frameworks

Ergonomic and Psychosocial Hazards, Hazard Mapping Techniques, Intro to Risk Assessment Frameworks, Case Analysis: Workplace Incidents, Reflection and Discussion.

Day 3: Control Measures & Compliance

Risk Evaluation and Prioritization, Hierarchy of Controls in Action, Legal & Regulatory Compliance, Guest Case Study: Industrial Hazard Management, Debrief and Knowledge Check.

Day 4: Root Cause Analysis & Safety Planning

Root Cause Analysis Techniques, Integrating Hazard Analysis into Safety Plans, Simulated Hazard Investigation, Building Hazard Control Plans, Q&A and Group Discussion.

Day 5: Workshop and Certification

Workshop: Full Hazard Analysis Report, Presentation of Team Analyses, Feedback & Best Practice Sharing, Final Review & Certification Assessment, Wrap-Up, Certificates & Closing.

Page 2 of 3

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