

HAZARD IDENTIFICATION, RISK ASSESSMENT & RISK CONTROL (HIRARC)

“Systematically Identifying Hazards, Assessing Risks, and Implementing Controls to Improve Workplace Safety and Compliance”

Schedule

Date	Venue	Fees (Face-to-Face)
22 - 26 Feb 2026	Kuwait	USD 3495 per delegate
16 - 20 Aug 2026	Manama, Bahrain	USD 3495 per delegate
11 - 15 Oct 2026	Doha, Qatar	USD 3495 per delegate

► Available delivery methods: Face-to-Face & Online Training

Introduction

Hazard Identification, Risk Assessment & Risk Control (HIRARC) is the foundation of any effective occupational health and safety management system. It provides a structured approach to identifying workplace hazards, evaluating associated risks, and applying the necessary controls to minimize harm and ensure regulatory compliance.

This 5-day intensive course provides safety professionals, supervisors, and operational leaders with the skills and tools required to perform effective HIRARC processes. Participants will gain practical experience through hands-on exercises, risk evaluation techniques, and case-based workshops tailored to high-risk industries.

Objectives

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

- Apply systematic methods to identify hazards in various work environments
- Assess the severity and likelihood of risks using standard models
- Prioritize risks and recommend appropriate control measures
- Develop HIRARC documentation and integrate it into operational workflows
- Support continuous safety improvement through proactive hazard management

Why Attend

- Learn internationally recognized best practices for workplace hazard management
- Gain hands-on skills in conducting and documenting hazard assessments
- Strengthen regulatory compliance and align with ISO 45001 and OSHA standards
- Reduce incident rates and enhance overall safety culture
- Equip teams with a preventive mindset and structured risk approach

Target Audience

This program is designed for:

- HSE officers, engineers, and supervisors
- Safety auditors and compliance professionals
- Plant and operations managers
- Maintenance and facility personnel
- Anyone involved in risk analysis, hazard reporting, or workplace inspections

Individual Benefits

Key competencies that will be developed include:

- Hazard detection and categorization skills
- Quantitative and qualitative risk evaluation techniques
- Application of the hierarchy of controls
- HIRARC form completion and reporting
- Risk communication and leadership in safety

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced incidents, injuries, and near misses
- Stronger regulatory and audit compliance readiness
- Enhanced safety culture and frontline engagement
- Clear, consistent HIRARC documentation and follow-through
- Proactive risk prevention integrated into daily operations

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Principles of hazard management and HIRARC methodology
- Case Studies - Industry-specific hazard scenarios and analysis
- Workshops - Hazard identification walkthroughs and risk matrix applications
- Peer Exchange - Group discussions and evaluation of real-life risk situations
- Tools - HIRARC templates, risk scoring charts, and control action logs

MAWA EVENTS

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Course Outline

DETAILED 5-DAY COURSE OUTLINE

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Fundamentals of HIRARC and Safety Management

- Module 1: Introduction to HIRARC Framework (07:30 – 09:30) • Purpose, principles, and process overview • Legal and regulatory drivers for HIRARC • Integration with ISO 45001 and workplace safety systems
- Module 2: Safety Culture and Hazard Awareness (09:45 – 11:15) • Building proactive safety behavior • Common hazard types: physical, chemical, biological, ergonomic • Hazard identification vs. risk evaluation
- Module 3: Roles and Responsibilities in Hazard Management (11:30 – 01:00) • Line management, safety officers, and team involvement • Competence requirements and training • Tools for reporting and hazard tracking
- Module 4: Workshop – Hazard Spotting Exercise (02:00 – 03:30) • Participants perform a simulated hazard identification exercise

Day 2: Hazard Identification Techniques

- Module 1: Systematic Hazard Identification (07:30 – 09:30) • Job Safety Analysis (JSA) and Task Risk Assessment (TRA) • Walkthrough inspections and observation techniques • Hazard mapping and flowcharting
- Module 2: Process-Based Hazard Identification (09:45 – 11:15) • Hazards in high-risk systems (pressure, energy, chemicals) • Use of checklists, HAZID, and SWIFT tools • Engaging frontline workers in hazard discovery
- Module 3: Special Considerations – Non-Routine Tasks and Projects (11:30 – 01:00) • Shutdowns, maintenance, and contractor activities • Temporary hazards and dynamic risk assessment
- Module 4: Workshop – Hazard Identification Case Study (02:00 – 03:30) • Teams analyze a multi-task scenario to extract potential hazards

Day 3: Risk Assessment and Scoring

- Module 1: Understanding Risk and Probability (07:30 – 09:30) • Definitions of risk, probability, severity, and exposure • Risk rating formulas and criteria • Consequence modeling and risk maps
- Module 2: Qualitative and Quantitative Risk Tools (09:45 – 11:15) • Risk matrix application • Semi-quantitative scoring methods • Common pitfalls and human bias in assessments
- Module 3: Evaluating Risk Acceptability (11:30 – 01:00) • Risk ranking, tolerability thresholds, and ALARP principle • Prioritizing hazards for control planning • Documenting and justifying risk decisions
- Module 4: Workshop – Risk Matrix Application (02:00 – 03:30) • Participants apply scoring to identified hazards and complete a HIRARC form

Day 4: Risk Control and Implementation

- Module 1: Hierarchy of Risk Control (07:30 – 09:30) • Elimination, substitution, engineering, administrative, and PPE controls • Selecting appropriate controls based on risk level • Combining controls for effectiveness
- Module 2: Risk Control Planning and Verification (09:45 – 11:15) • Writing corrective action plans • Roles in implementation and monitoring • Safety inspections and compliance reviews
- Module 3: Linking HIRARC to Work Permits and Safety Procedures (11:30 – 01:00) • Safe work systems and permit-to-work integration • Updating job safety analysis based on HIRARC outcomes
- Module 4: Workshop – Developing a Risk Control Plan (02:00 – 03:30) • Participants write and present an action plan for a prioritized hazard

Day 5: Integration, Audit Readiness, and Continuous Improvement

- Module 1: Embedding HIRARC into Organizational Processes (07:30 – 09:30) • Linking HIRARC to training, SOPs, and safety meetings • Ensuring alignment across departments and teams • Encouraging near-miss reporting and risk awareness
- Module 2: Reviewing and Updating Risk Assessments (09:45 – 11:15) • Triggers for reassessment: incidents, changes, audits • Continuous improvement cycle • Document control and version tracking
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- Module 3: Preparing for Audits and Legal Compliance (11:30 – 01:00) • Audit trails, evidence gathering, and inspection readiness • Responding to findings and implementing improvements
- Module 4: Final Workshop – HIRARC Implementation Plan (02:00 – 03:30) • Participants present a 90-day implementation strategy for their worksite

Certification

Participants will receive a Certificate of Completion in Hazard Identification, Risk Assessment & Risk Control (HIRARC), validating their ability to conduct structured risk assessments and apply effective hazard controls in alignment with international safety standards.

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