

**Training Title**

**HAZARD IDENTIFICATION & RISK ASSESSMENT**

**Training Duration**

**5 days**

**Training Venue and Dates**

REF	HS014	Hazard Identification & Risk Assessment	5 Days	04 -08 October 2020	\$4,500	Dubai, UAE
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In any of the 5 star hotels. The exact venue will be informed once finalized.

**Training Fees**

- 4,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**TRAINING INTRODUCTION & DESCRIPTION**

Health and safety issues are becoming increasingly important in the modern industrial world. Risk assessment is a core element of health and safety management. Risk and safety management play an important part in every business success. Identifying the various types of hazards/risks and the implications that each might have on an organisation, as well as highlighting the business benefits that can be obtained through successful risk and safety management all need to be included in an overall company strategy.

Hazard identification and risk assessment is a continual process. It is done in order to identify whatever could cause injury, damage, ill-health, financial loss and reputational loss to the organization.

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**The System Approach to the HIRA**

- Identify the hazards
- Assess the risks
- Control the hazard
- Evaluate the control mechanisms
- Continually monitor the hazard and reassess the risk
- Learn how to develop control measures to control risk

**BENEFITS:**

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This course provides an understanding for hazard identification and risk assessment. Hazard identification and risk assessment is one of the key planning elements for OHSAS 18001 and forms the basis for the design of a management system.

On completion of this course the participants will be able to:

- Obtain the knowledge and skills to identify risks
- Identify hazards in the workplace.
- Complete risk assessments in the workplace.
- Identify improvement measures to reduce identified risks.

### TRAINING OBJECTIVES

- To create an Awareness , Appreciation , and Application of HIRA
- Identify any thing that may cause injury, damage, ill-health
- To describe the broad frame work of hazard identification and risk assessment (HIRA) in Chemical Process Industries, storages and in transportation .
- Prioritize the risks in terms of urgency of required attentions
- Discover preventive or mitigating actions that can be taken in each case  
Create awareness in all concerned in each and every factor and activity that may cause injury damage or ill health<
- Enhance decision making by brining all concerned and effected parties into the HIRA process
- Encourage employees to take ownership of their own safety in terms of recognizing and reporting hazards and participating in the discovery and implementations of the solutions that will prevent incidents or mitigate the consequence
- Build a team approach to Health & safety Management

### WHO SHOULD ATTEND?

Safety committee members, HSE Managers, Process Engineers and personnel responsible for undertaking hazard identification and risk assessment

### TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

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## DAILY OUTLINE

### DAY 1

Introduction -Productivity and HIRA  
HIRA and ISO 14001 and OHSAS 18001  
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- Legal and Statutory Requirements
  - Classifying Work Activities
- Defining hazard types.
  - Identifying Hazards
  - Determining Risks

### DAY 2

- Defining breakdown of hazards.
  - Hazards Classification
- Physical (Machinery).
- Chemical.
- Biological.
- Health.
- Psychosocial.

### DAY 3

- Risk assessment techniques.
- Hazard rating system.
  - Deciding if risk is tolerable
- Control systems to reduce hazards.
  - Preparing Risk Control Plan
  - Reviewing Adequacy of Control Plan
    - Risk Assessment Process
  - Planning for Risk Assessment

### Day 4

- Risk Analysis
- Risk Evaluation
- Risk Control
- Effective safety inspections.
  - Hazards Evaluation
  - Residual Risk Evaluation & Risk Control
  - HAZMAT
  - HAZWOPER

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- Safety Audit

**Day 5**

- Benefits of conducting risk assessment
- Application of methodologies
  - Hazard Operability (HAZOP)
  - Failure Mode and Effect Analysis (FMEA)
  - Fault Tree Analysis (FTA)
  - Event Tree Analysis (ETA)
- Safety Audit

**NOTE:**

**Pre & Post Tests will be conducted**

**Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.**



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