



**MAESTRO**  
CONSULTANTS

**HAZARD  
IDENTIFICATION  
&  
RISK  
ASSESSMENT**



**COURSE OUTLINE 2020**

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## **TRAINING TITLE**

HAZARD IDENTIFICATION & RISK ASSESSMENT

## **VENUE**

Dubai, UAE

## **DURATION**

5 Days

## **DATES**

07 - 11 June 2020

## **PRICE**

US\$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet daily.

## **TRAINING INTRODUCTION**

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.

- 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

## **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 framework 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

## **TRAINING AUDIENCE**

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

## **COURSE 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
  - 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

## **TRAINING CERTIFICATE**

**MAESTRO CONSULTANTS** Certificate of Completion for delegates who attend and complete the training course

## **METHODOLOGY**

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of “real life” issues in their organizations. The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.