

**Training Title**

**OPERATIONAL INTEGRITY AND SAFETY PRACTICES**

**Training Duration**

5 Days

**Training Date & Duration**

REF HS014	OPERATIONAL INTEGRITY AND SAFETY PRACTICES	5	04-08 Nov 24'	\$5,500	Dubai, UAE
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Will be held at any of the 4 or 5-Star hotels. Exact venue will be informed once finalized.

**Training Fees**

US\$ 5,500 per participant includes Training Materials/Handouts, Tea/Coffee breaks, Refreshments and Lunch.

**Training Certificate**

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

**TRAINING OVERVIEW**

**TRAINING INTRODUCTION & DESCRIPTION**

Health, Safety and Environmental Management Systems are based on a proactive process for incidents prevention as well as reactive monitoring of performance. Risk assessment is required to be applied to all activities that impacts on health & safety, production, asset, environment and the company reputation. In this training session you will learn how to:

- Improve your practical skills in applying advanced risk assessment techniques relevant to the process industry
- Effectively balance risk against cost in order to optimize risk reduction measures
- Motivate your people for improved safety culture
- Appreciate the role of Quantified Risk Assessment and major hazards
- Apply root-cause analysis to incident investigation and analysis

**TRAINING OBJECTIVES**

- The objective of this course is to equip participants with the knowledge and skills necessary to maintain operational integrity and ensure safety in various organizational settings.
- Participants will learn to identify potential risks, implement effective safety protocols, and adhere to best practices to prevent accidents and enhance operational efficiency. Through case studies and discussions, participants will develop a thorough understanding of regulatory requirements, risk management strategies,

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and the importance of fostering a culture of safety and integrity within their organizations.

### WHO SHOULD ATTEND

- Production, project, process, mechanical, control, maintenance and HSE personnel
- All personnel involved in implementing the Company's HSE Management System

### 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

### DAILY COURSE OUTLINE

The course content will include the following will be covered in 5 days of time.

#### **DAY 1**

##### **Advanced Risk Assessment Techniques 1: HAZOP**

- Introduction to hazards identification and analysis techniques
- Techniques for hazard identification and analysis- HAZOP
- Syndicate exercise- application of HAZOP to batch and continuous processes
- Integrating HAZOP within the risk management system
- Review of commercial HAZOP software

#### **DAY 2**

##### **The role of Quantified Risk Assessment 'QRA'**

- Failure Modes & Effects Analysis 'FMEA'
- Decision trees and Event Tree Analysis 'ETA'
- Sources of failure data

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- Fault Tree Analysis 'FTA'
- Quantification of ETA and FTA
- Evaluation of Individual and Societal Risks

### DAY 3

#### Mechanics of Fire, Explosion and Toxic Releases

- The role of consequence analysis in QRA
- Types of Fires: Jet flame, pool fire, flash fire, BLEVE
- Types of Explosion: VCE, UVCE, pressure burst, dust explosion
- Vulnerability analysis
- Commercial software for modelling releases, fire, explosion and toxic releases

### DAY 4

#### Advanced Incidents Investigation Techniques

- Human contribution to accidents
- The role of root cause Analysis in identifying management system failures
- Accident investigation techniques
- Latent failure and root causes for incidents
- Techniques for root-cause analysis

### DAY 5

#### Promoting a positive safety culture

- Introduction to Safety Culture
- Techniques for improving safety culture
- Measuring improvements in safety culture
- Integrating safety culture within the HSE Management System

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#### 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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