



Training Seminars & Conferences

An Intensive 5-Day Training Seminar On

# Advanced Risk and Incident Analysis

## Risk Management, Incident Investigation and Root Cause Analysis

22 - 26 Aug 2021, Dubai



 View Details

# Advanced Risk and Incident Analysis

## Risk Management, Incident Investigation and Root Cause Analysis

### INTRODUCTION

An essential part of risk and incident analysis is to provide management with decision making criteria for determining and subsequently establishing an organisation's range of acceptable, tolerable and unacceptable risk category levels for the effective management of all their significant health, safety and process risks. Such tools are essential for avoiding major industrial incidents that can result in death, destruction, and commercial losses.

**In this EuroMaTech training course, delegates will advance their knowledge and skills by:**

- Understanding the importance and role of risk and incident analysis
- Learning the principles of risk management and assessment process
- Being able to analyse risks and incidents and consider the underlying causes
- Learning how to select / implement pro-active incident prevention measures
- Appreciating the roles and importance of managing Leading and Lagging Indicators
- Understanding pre and post risk and incident management

### WHO SHOULD ATTEND?

- Management and those with responsibilities for analysing risks and incidents
- Production, process, maintenance, and HSE personnel
- Line-management involved in planning and / or implementing the organisation's risk and incident analysis programmes

### TRAINING METHODOLOGY

Delegates will learn by active participation through inspiring presentation tools and interactive EuroMaTech training course and role-playing activities, presented in a lively, enthusiastic and interesting style. Delegates will take part in topic exercises, case studies and the practical programme.

### PROGRAMME OBJECTIVES

**This Advanced Risk & Incident Analysis training course aims to enable participants to achieve the following objectives:**

- Gaining an appreciation of risk and incident analysis techniques
- Understanding the role and the importance of "Barriers" in avoiding incidents and mitigating their consequence
- Identification of potential plant, process and work task related risks
- Developing and implementing Risk Management programmes
- Understanding how to carry out comprehensive incident analysis using evaluation tools, including root cause analysis (*RCA*)
- Appreciating the roles of Leading and Lagging Indicators in incident avoidance
- Develop skills for analysing new and existing risk control measures and improving incident analysis techniques of pre and post risk and incident management arrangements

### PROGRAMME SUMMARY

The purpose of this Advanced Risk & Incident Analysis training course is to provide delegates with the advanced skills and knowledge to successfully analyse new and existing risk control measures and conduct effective incident analysis. This EuroMaTech training course will show delegates how they can evaluate, determine and implement effective risk control measures to prevent serious incident occurring and / or re-occurring.

# PROGRAM OUTLINE

## DAY 01

### Advanced Risk Analysis

- Principles of Risk Analysis
- Control Measures and Mitigation
- Consideration of the Risk Analysis Framework
- Risk Evaluation Process and Risk Assessment Techniques
- Roles of Health & Safety and Process Management Systems
- An introduction to the concepts Barriers and of Layers of Protection (LOPs)

## DAY 02

### Advanced Incident Analysis (Part 1)

- Learning from Incidents – *Review of Case Studies*
  - » Gas Leak & Explosion; Liquid Leak & Explosion; Pipe Failures
  - » A study of some large health and safety incidents
- Accident and Incident Analysis
  - » Incident Occurrences; Eye Witness Testimonies; Analysis Team
  - » Gathering Evidence; Expert Support; Incident Sequence
  - » Preliminary Causes; Root Cause Analysis; Human Factors
  - » Risk Control Recommendations; Analysis Report

## DAY 03

### Advanced Incident Analysis (Part 2)

- Human Factors Environment
- Sensory and Perceptual Processes
- Individuals – *Psychology and Differences*
- Perception and Decision Making
- Human Error
- Incident Analysis using a series of case studies:
  - » PVC monomer plant fire and explosion
- Improving Human Reliability

## DAY 04

### Advanced Risk and Incident Analysis Programme

- Development of the Bow Tie Method
- Incident Analysis using a series of case studies:
  - » Process design issues - *Propylene Fire and Explosion*
  - » Failure to understand the Process - *Reactive Hazards Explosions*
  - » Deviations in Process Control - *A serious Ethylene Oxide Explosion*
- Incident Re-occurrence – *Organisations Have No Memory*

## DAY 05

### Advanced Risk and Incident Prevention Programme

- Incident Analysis using a series of case studies:
  - » So much went wrong - *A major oil refinery fire and explosion*
- Emergency Response Analysis
- Pro-Active Incident Prevention Measures
- Pre & Post Risk and Incident Management
- Key Points Summary

## IN-HOUSE TRAINING

EuroMaTech is capable of conducting this training programme exclusively for your delegates. Please e-mail us on [inhouse@euromatech.ae](mailto:inhouse@euromatech.ae) for further information and/or to receive a comprehensive proposal.

## QUALITY CERTIFICATIONS & ACCREDITATIONS

EuroMaTech is proud to be associated with the following accreditation bodies:



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# Advanced Risk and Incident Analysis

## Risk Management, Incident Investigation and Root Cause Analysis

✓	Date	Venue	Fee(\$)
	22 - 26 Aug 2021	Dubai	US\$4,950

*This fee is inclusive of instruction materials, documentation, lunch, coffee/tea breaks & snack. All Fees are subject to 5% Value Added Tax (VAT).\**

### Your Details

Name (Mr/Ms):.....  
Position:..... Organisation:.....  
Address:.....  
.....  
City / Country: .....  
Telephone / Fax: .....

### Mode Of Payment

- Please find enclosed a cheque made payable to EuroMaTech  
 Please invoice me  
 Please invoice my company as follows:

Contact Name: .....  
Company Name: .....  
Address:.....

#### Documentation

High Quality material has been prepared by the Seminar Leader for distribution to delegates. In addition, a special note pad to facilitate note taking will be provided.

#### Certificates

A Certificate of Completion will be issued to those who attend & successfully complete the programme.

#### Schedule

Our Course timings commences at 08:30 and concludes at 14:00, followed by lunch on a daily basis.

#### Hotel Accommodation

EuroMaTech has negotiated special rates for a limited number of rooms in the hotel. Early registration will help to secure a room at the reduced rate.

#### Registration & Payment

Please complete the registration form on this page & return it to us indicating your preferred mode of payment. For Further Information, Contact Your Nearest EuroMaTech Office.

#### Cancellation Policy

Request for seminar cancellation must be made in writing & received at EuroMaTech three weeks prior to the seminar date. A U.S.\$250/- processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.

#### Disclaimer

EuroMaTech reserves the right to alter the content, location of the Seminar, or the identity of the speakers in case of events beyond our control.

**\*VAT Announcement:** The Government of UAE have introduced Value Added Tax (VAT) on goods and services from 01-January-2018. In compliance with the legislation issued by the UAE Government, we will be applying a 5% VAT on the fees for all our programs and services offered from January 2018 as applicable and stipulated in the FTA circulars.

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