



Training Course: Advanced Process HAZOP

9 - 13 December 2024 Vienna (Austria)



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Training Course code: LS32456 From: 9 - 13 December 2024 Venue: Vienna (Austria) - Training Course Fees: 5250 Euro

Introduction

It is universally recognised that for any company to succeed it must take a proactive approach to risk management. Over the last few years Companies and a number of Countries legislators have been focusing on Process Safety as a method to reduce the risks posed by hazardous industries. Process Hazard Analysis PHA is recognised as being a critical tool in the implementation of a successful risk management system.

As Hazard and Operability HAZOP studies are now recognised world-wide as being the qualitative risk assessment methodology of choice in the Process Industries, there will be additional focus on this specific aspect of Process Hazard Analysis.

The delegates will learn:

- How to Apply Advanced Risk Assessment Techniques
- Mechanics of Dispersion, Fire, Explosion and Toxic Releases
- The Concept of Quantified Risk Assessment

 QRA
- Hazard and Operability HAZOP Study Methodology
- HAZOP Team Leadership

Objectives of Process HAZOP

- Understand the concepts of Risk Assessment and Risk Management
- Understand the estimation and evaluation of risks Qualitative, Semi-Quantitative and Quantified Risks
- Techniques for Hazard Identification and Analysis Check-Lists, Risk Profiling, HAZOP, FMEA and Task-Based Risk Assessment
- Cause-Consequences Analysis The Role of Fault Trees and Event Trees in Accident Prevention
- Understand HAZOP studies their benefits and their short comings
- Understand the requirements of a Team Leader or Facilitator, scribe and team members during HAZOP studies
- Be able to facilitate a HAZOP study

Who Should Attend?

- HSE Technical Personnel
- Project Engineers
- Maintenance Personnel
- · Process Engineers involved in design and modification
- Instrumentation and Control Engineers

Outline of Process HAZOP



DAY 1

Introduction to Risk Assessment

- Training Seminar Introduction: Delegate and Instructor Introductions; Training Seminar Objectives
- The Concepts of Hazards, Risk and Risk Assessment
- · Methods for Risk Evaluation
- Integrating Risk Assessment within Risk Management
- · Qualitative, Semi-Quantitative and Quantitative Risk Assessment Methodologies
- · Feedback and Review of Day 1

DAY 2

Risk Assessment Techniques: HAZOP

- Introduction to Hazards Identification and Analysis Techniques
- Techniques for Hazard Identification and Analysis HAZOP
- Where and When to Use HAZOP and the Requirements for a Successful HAZOP Study
- Team Composition for HAZOP Studies
- Guide Words and Process variables used for HAZOP Studies
- Syndicate Exercise Application of HAZOP to Relevant Processes
- · Report Back and Review of Day 2

DAY 3

HAZOP Leadership Techniques

- HAZOP Team Leader / Facilitator Requirements
- HAZOP Scribe Requirements
- Facilitating HAZOP Studies dolls and donlits
- Information required to allow Successful HAZOP Studies
- Case Study where each delegate has the opportunity to facilitate a HAZOP Meeting
- Review of Commercial Software used for HAZOP and Management of Change IMOCI
- · Report Back and Review of Day 3

DAY 4

Consequence Analysis

- Theory Behind Fire, Explosion, and Toxic Dispersion Modelling Utilised in Quantitative Risk Assessments
- Types of Fires and their Effects on People and Equipment
- Types of Explosions and their Effects on People and Equipment
- Review of Software available for Consequence Calculations
- · Report Back and Review of Day 4

DAY 5

The Role of QRA

- Introduction to Quantified Risk Assessment [QRA]
- The Role of Event Tree Analysis in Scenario Development
- The Role of Fault Tree Analysis for Multi-causation Analysis



- Applications for ETA and FTA
- Failure Data for Use in QRAIs
- Societal Risk and Individual Risk
- Review of Software available for Quantitative Risk Assessments
- Report Back on Day 5 and Discussion
- Programme Review and the Way Ahead



Registration form on the Training Course: Advanced Process HAZOP

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Euro

Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information
Full Name (Mr / Ms / Dr / Eng): Position: Telephone / Mobile: Personal E-Mail: Official E-Mail:
Company Information
Company Name: Address: City / Country:
Person Responsible for Training and Development
Full Name (Mr / Ms / Dr / Eng): Position: Telephone / Mobile: Personal E-Mail: Official E-Mail:
Payment Method
Please find enclosed a cheque made payable to Global Horizon Please invoice me Please invoice my company
Thease invoice my company
Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place. Fax your completed registration form to: +20233379764

E-mail to us : info@gh4t.com or training@gh4t.com Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.