

## HAZOP STUDIES AND PROCESS SAFETY MANAGEMENT

*"Enhancing Process Safety and Risk Management through Structured HAZOP Analysis"*

### Schedule

| Date             | Venue  | Fees (Online)        |
|------------------|--------|----------------------|
| 27 - 28 Jul 2026 | Online | USD 700 per delegate |

► **Available delivery methods:** Face-to-Face & Online Training

### Introduction

Process safety management is critical for preventing accidents, protecting personnel, and ensuring operational continuity in industrial facilities. HAZOP (Hazard and Operability) studies are a structured approach to identify potential hazards, assess risks, and implement effective safeguards.

This intensive 2-day online course equips participants with practical knowledge and skills to conduct HAZOP studies and integrate them into process safety management systems. Participants will learn how to analyze processes, identify risks, implement mitigation strategies, and enhance overall process safety performance.

### Objectives

By the end of this course, participants will be able to:

- Understand the principles and methodology of HAZOP studies
- Identify hazards and operability issues in industrial processes
- Conduct risk assessments and determine mitigation measures
- Apply process safety management concepts to prevent accidents
- Integrate HAZOP findings into safety and operational procedures
- Enhance organizational compliance with safety regulations and standards

## Why Attend

- Gain practical expertise in HAZOP analysis for industrial processes
- Improve process safety and risk management capabilities
- Enhance compliance with regulatory and industry safety standards
- Minimize operational hazards and potential downtime
- Strengthen decision-making and problem-solving in safety-critical environments

## Target Audience

This program is designed for:

- Process, chemical, and safety engineers
- Operations and maintenance managers
- HSE (Health, Safety, and Environment) professionals
- Project engineers and supervisors
- Personnel responsible for risk management and process safety

## Individual Benefits

Key competencies that will be developed include:

- Conducting structured HAZOP studies for industrial processes
- Identifying and assessing process hazards and operability issues
- Applying process safety management principles effectively
- Developing risk mitigation and safety improvement strategies
- Integrating HAZOP findings into operational and safety procedures

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved process safety performance and hazard control
- Reduced risk of accidents and operational disruptions
- Enhanced compliance with safety regulations and standards
- Strengthened organizational safety culture
- Effective documentation and implementation of HAZOP recommendations

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - HAZOP methodology, process safety management principles, and regulatory requirements
- Case Studies - Real-world HAZOP studies and process safety incidents
- Workshops - Hands-on exercises in hazard identification, risk assessment, and mitigation planning
- Peer Exchange - Group discussions on challenges, lessons learned, and best practices
- Tools - HAZOP worksheets, risk matrices, and safety documentation templates

## Course Outline

### Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: HAZOP Fundamentals and Methodology

##### Module 1: Introduction to HAZOP (07:30 – 09:30)

- Overview of HAZOP studies and process safety
- Importance of hazard identification and operability analysis
- Roles and responsibilities in HAZOP studies

##### Module 2: HAZOP Methodology (09:45 – 11:15)

- Step-by-step HAZOP approach
- Guidewords and deviation analysis
- Process flow diagrams and node selection

##### Module 3: Hazard Identification and Risk Assessment (11:30 – 01:00)

- Identifying potential hazards and operability issues
- Risk ranking and prioritization
- Determining safeguards and mitigation measures

##### Module 4: Workshop – HAZOP Study Simulation (02:00 – 03:30)

- Conducting a HAZOP analysis on a sample process
- Documenting findings and recommendations

#### Day 2: Process Safety Management and Application

##### Module 5: Process Safety Management Principles (07:30 – 09:30)

- Key elements of process safety management
- Linking HAZOP findings to safety policies and procedures
- Regulatory and industry compliance considerations

##### Module 6: Advanced Risk Mitigation Strategies (09:45 – 11:15)

- Risk reduction hierarchy and control measures
- Emergency response and contingency planning
- Integrating safety into operational processes

##### Module 7: Documentation and Implementation (11:30 – 01:00)

- Recording HAZOP recommendations
- Action tracking and follow-up
- Continuous improvement and audit readiness

##### Module 8: Workshop – Process Safety Application (02:00 – 03:30)

- Applying HAZOP results to operational scenarios
- Developing an implementation roadmap for process safety
- Group discussion and Q&A

## Certification

Participants will receive a Certificate of Completion in HAZOP Studies and Process Safety Management, validating their competence in hazard identification, risk assessment, mitigation planning, and integration of process safety management practices.

## Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

|  |   |   |
|--|---|---|
| <p><b>In-House / Customized Training</b></p> <p>Interested in running this course for your team?</p> <p>Please contact us:</p> | <p>TEL:</p> <p><b>+601116373203</b></p> | <p>EMAIL:</p> <p><b>info@mawaevents.net</b></p> |
|--|---|---|

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.