MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

PRACTICAL HAZOPS FOR ENGINEERS AND TECHNICIANS

"Identifying process hazards and improving operational safety through effective HAZOP studies"

Schedule

Date	Venue	Fees (Online)
12 – 13 May 2026	Online	USD 700 per delegate

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

Introduction

Hazard and Operability Studies (HAZOP) are a critical risk assessment technique used to identify potential hazards and operability problems in industrial processes. Engineers and technicians involved in design, operations, maintenance, and safety must clearly understand how to conduct and participate effectively in HAZOP studies.

This 2-day practical training provides participants with hands-on knowledge of HAZOP methodology, guidewords, team roles, and documentation. The course emphasizes real-life examples and practical exercises to help participants confidently identify risks, recommend safeguards, and improve process safety performance.

Objectives

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

- Understand the purpose and importance of HAZOP studies
- Explain HAZOP terminology, guidewords, and methodology
- Identify process hazards and operability issues
- Participate effectively as HAZOP team members
- Analyze causes, consequences, and safeguards
- Develop practical recommendations to reduce risk
- Improve safety and reliability of industrial operations

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Why Attend

- Learn a globally recognized hazard identification technique
- Enhance process safety awareness
- Gain practical skills through real HAZOP examples
- Improve compliance with HSE and regulatory requirements
- Strengthen your role in safety reviews and risk assessments
- Suitable for both engineers and technicians

Target Audience

This program is designed for:

- Process, mechanical, electrical, and chemical engineers
- Operations and maintenance technicians
- HSE and safety officers
- Plant supervisors and shift leaders
- Project engineers and design team members
- Anyone involved in process safety and risk management

Individual Benefits

Key competencies that will be developed include:

- Strong understanding of HAZOP principles and techniques
- Ability to identify hazards in process systems
- Improved analytical and problem-solving skills
- Confidence in participating in HAZOP workshops
- Better understanding of process deviations and risks
- Enhanced professional safety knowledge

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved hazard identification and risk control
- Reduced likelihood of accidents and incidents
- Stronger safety culture within operations
- Better compliance with HSE standards
- More effective and structured HAZOP studies
- Improved operational reliability and efficiency

Instructional Methodology

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

- Strategy Briefings – Fundamentals of HAZOP methodology and process safety
- Case Studies – Real-world industrial HAZOP examples
- Workshops – Practical HAZOP exercises using process diagrams
- Peer Exchange – Group discussions on common hazards and lessons learned
- Tools – HAZOP worksheets, guideword lists, and documentation templates

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Course Outline

Detailed 2-Day Course Outline

Training Hours: 9:00 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks included

Day 1: Introduction to HAZOP and Hazard Identification

Module 1: Fundamentals of Process Safety (09:00 – 10:30)

- Introduction to process safety concepts
- Common industrial hazards
- Role of HAZOP in risk management

Module 2: HAZOP Methodology and Terminology (10:45 – 12:15)

- What is HAZOP?
- Guidewords, parameters, and deviations
- HAZOP team roles and responsibilities

Module 3: HAZOP Study Preparation (01:00 – 02:15)

- Defining scope and nodes
- Required documents (P&IDs, procedures)

Module 4: Workshop – Basic HAZOP Exercise (02:30 – 03:30)

- Simple process HAZOP analysis

Day 2: Practical HAZOP Application and Risk Reduction

Module 1: Identifying Causes and Consequences (09:00 – 10:30)

- Deviation analysis
- Consequence severity and likelihood

Module 2: Safeguards and Recommendations (10:45 – 12:15)

- Existing safeguards
- Developing effective recommendations

Module 3: Documentation and Follow-up (01:00 – 02:15)

- HAZOP reporting
- Action tracking and closure

Module 4: Workshop – Full HAZOP Case Study (02:30 – 03:30)

- Team-based HAZOP simulation
- Lessons learned and best practices

Certification

Participants will receive a Certificate of Completion in Practical HAZOPs for Engineers and Technicians, validating their understanding of HAZOP methodology and their ability to identify and analyze process hazards in industrial environments.

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.

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