

FUNDAMENTALS OF HAZOP

“Master Hazard and Operability Analysis to Enhance Process Safety”

Schedule

Date	Venue	Fees (Online)
09 - 10 Sep 2026	Online	USD 700 per delegate

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

Introduction

Hazard and Operability (HAZOP) analysis is a critical technique for identifying potential hazards, operational issues, and safety risks in industrial processes. This 2-day online course provides participants with a comprehensive understanding of HAZOP methodology, enabling them to systematically analyze processes, identify deviations, and implement corrective measures.

Through interactive workshops, case studies, and practical exercises, participants will develop the skills required to conduct HAZOP studies effectively. By the end of the program, attendees will be equipped to enhance process safety, mitigate risks, and support compliance with industry safety standards.

Objectives

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

- Understand the principles and methodology of HAZOP analysis.
- Identify potential hazards and operational deviations in processes.
- Conduct structured HAZOP studies using standard guidelines.
- Recommend corrective actions and preventive measures.
- Promote a proactive safety culture within industrial operations.

Why Attend

- Gain practical skills in HAZOP analysis and hazard identification.
- Learn to systematically detect operational risks and deviations.
- Enhance process safety and compliance with industry standards.
- Improve decision-making and preventive safety measures.
- Network with peers and share insights on HAZOP implementation.

Target Audience

This program is designed for:

- Process engineers and safety officers
- HSE professionals and risk managers
- Operations and maintenance personnel in industrial plants
- Project engineers and quality assurance professionals
- Professionals responsible for hazard analysis and process safety

Individual Benefits

Key competencies that will be developed include:

- Mastery of HAZOP principles, terminology, and methodology.
- Skills to identify hazards, deviations, and potential risks.
- Ability to facilitate and participate in structured HAZOP sessions.
- Knowledge of industry best practices and safety compliance standards.
- Capability to recommend effective corrective and preventive measures.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced capability to identify and mitigate process hazards.
- Improved operational safety and risk management practices.
- Strengthened compliance with industrial safety standards.
- Reduced likelihood of accidents and operational disruptions.
- A proactive safety culture supporting continuous improvement.

Instructional Methodology

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

- Strategy Briefings – Overview of HAZOP methodology, safety principles, and risk assessment
- Case Studies – Analysis of real-world incidents and lessons learned from HAZOP studies
- Workshops – Hands-on exercises in conducting HAZOP sessions
- Peer Exchange – Group discussions on challenges and best practices in hazard analysis
- Tools – Templates and checklists for HAZOP studies and reporting

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 Break: 01:00 – 02:00

Day 1: Introduction to HAZOP and Hazard Identification

- Module 1: Principles of HAZOP (07:30 – 09:30)
- Module 2: Process Flow Analysis and Deviation Identification (09:45 – 11:15)
- Module 3: HAZOP Team Roles and Responsibilities (11:30 – 01:00)
- Module 4: Workshop: Conducting a Mock HAZOP Session (02:00 – 03:30)

Day 2: HAZOP Analysis, Corrective Actions, and Reporting

- Module 1: Risk Assessment and Prioritization (07:30 – 09:30)
- Module 2: Recommending Corrective and Preventive Actions (09:45 – 11:15)
- Module 3: Documentation and Reporting of HAZOP Findings (11:30 – 01:00)
- Module 4: Interactive Workshop: HAZOP Case Study and Peer Feedback (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion in Fundamentals of HAZOP, validating their expertise in hazard identification, HAZOP methodology, and process safety improvement practices.

Why Choose MAWA Events

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Interested in running this course for your team?

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