

INTRODUCTION TO HAZOP: BECOMING AN ACTIVE PARTICIPANT

“Enhancing Safety and Risk Awareness through Practical HAZOP Participation”

Schedule

Date	Venue	Fees
06 - 10 Sep 2026	Doha, Qatar	USD 3495 per delegate

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

Introduction

The Introduction to HAZOP: Becoming an Active Participant course is designed to equip participants with the fundamental knowledge and practical skills to actively contribute in Hazard and Operability (HAZOP) studies. This training provides a solid understanding of HAZOP methodology, its purpose in identifying potential hazards, and its role in process safety and risk management.

Throughout the 5 days, participants will engage in hands-on exercises and simulated workshops to strengthen their ability to prepare for, participate in, and effectively contribute to HAZOP reviews, helping organizations enhance operational safety and meet regulatory compliance.

Objectives

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

- Understand the principles, objectives, and process of HAZOP studies.
- Prepare effectively to participate as a team member in HAZOP sessions.
- Identify and assess potential process hazards and operability issues.
- Document and communicate HAZOP findings clearly and accurately.
- Support continuous improvement in process safety and operational risk management.

Why Attend

- Gain a foundational understanding of HAZOP methodology and its importance.
- Learn practical strategies to actively and confidently contribute in HAZOP reviews.
- Improve your ability to identify risks, propose safeguards, and support safety improvements.
- Enhance your professional value in industries where process safety is critical.
- Participate in interactive case studies and simulated HAZOP workshops.

Target Audience

This program is designed for:

- Process engineers, operations staff, and supervisors involved in plant operations.
- Safety engineers, HSE professionals, and risk management personnel.
- Project engineers, maintenance staff, and technical specialists.
- Anyone new to HAZOP or seeking to improve their role as an active participant in HAZOP teams.
- Individuals aiming to strengthen their understanding of process safety management.

Individual Benefits

Key competencies that will be developed include:

- Enhanced understanding of HAZOP techniques and process safety tools.
- Improved confidence in contributing to team-based risk assessments.
- Stronger ability to recognize hazards, assess risks, and suggest solutions.
- Skill development in documentation, communication, and reporting of HAZOP outcomes.
- Increased awareness of operational risks and preventive safety measures.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved team participation and engagement in HAZOP studies.
- Strengthened organizational process safety culture and risk awareness.
- Enhanced ability to identify and mitigate hazards proactively.
- More effective communication and implementation of safety recommendations.
- Support for regulatory compliance and continuous safety improvements.

Instructional Methodology

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

- Strategy Briefings – Core HAZOP principles, process safety fundamentals, and team roles.
- Case Studies – Real-world examples of HAZOP applications and lessons learned.
- Workshops – Interactive exercises simulating HAZOP reviews and hazard identification.
- Peer Exchange – Group discussions on challenges, barriers, and best practices in HAZOP participation.
- Tools – Templates and checklists for HAZOP preparation, participation, and documentation.

MAWA EVENTS

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

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



Course Outline

Detailed 5-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: Introduction to HAZOP and Process Safety

- Module 1: Foundations of HAZOP (07:30 – 09:30)
- Overview of HAZOP: Purpose, scope, and importance.
- HAZOP in the context of process safety management.
- Regulatory drivers and industry standards.
- Module 2: Understanding HAZOP Methodology (09:30 – 11:30)
- Key principles and terminology of HAZOP.
- Typical HAZOP team roles and responsibilities.
- Preparing for a successful HAZOP session.

Day 2: Preparing for HAZOP Participation

- Module 3: Identifying Hazards and Operability Issues (07:30 – 09:30)
- How to read and interpret process documents (P&IDs, process flow diagrams).
- Hazard identification techniques used in HAZOP.
- Using guidewords and parameters in HAZOP analysis.
- Module 4: Roles and Contributions of Team Members (09:30 – 11:30)
- Active participation as a HAZOP team member.
- Asking relevant questions and providing meaningful input.
- Communicating effectively during team discussions.

Day 3: Practical HAZOP Execution

- Module 5: Conducting a HAZOP Review (07:30 – 09:30)
- Step-by-step walkthrough of a HAZOP session.
- Facilitating the review process and ensuring coverage.
- Recording and tracking HAZOP findings.
- Module 6: Documentation and Reporting (09:30 – 11:30)
- Preparing HAZOP reports and action lists.
- Ensuring clarity, accuracy, and traceability of recommendations.
- Communicating outcomes to stakeholders and management.

Day 4: Case Studies and Simulated Exercises

- Module 7: Learning from Real-World HAZOPs (07:30 – 09:30)
- Review of actual HAZOP case studies and outcomes.
- Common challenges and pitfalls in HAZOP studies.
- Lessons learned from industry incidents.
- Module 8: Simulated HAZOP Workshop (09:30 – 11:30)
- Hands-on exercise simulating a HAZOP review.
- Applying guidewords, identifying hazards, and suggesting safeguards.
- Team collaboration and role-play.

Day 5: Enhancing HAZOP and Safety Culture

- Module 9: Improving HAZOP Effectiveness (07:30 – 09:30)
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Best practices for maximizing HAZOP value.

- Integrating HAZOP findings into safety management systems.
- Continuous improvement strategies.
- Module 10: Building a Strong Safety Culture (09:30 – 11:30)
- The role of HAZOP in shaping organizational safety culture.
- Engaging teams in proactive safety thinking.
- Sustaining long-term improvements in risk management.

Certification

Participants will receive a Certificate of Completion in HAZOP Participation and Process Safety, validating their readiness to actively contribute in HAZOP reviews and support organizational safety and risk management efforts.

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