MERCURY

HAZOP Leadership and Management

28 February – 4 March 2027
Dubai (UAE)



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Ref: 121231_1023713 **Date:** 28 February – 4 March 2027 **Location:** Dubai (UAE) **Fees:** 4600 Euro

Introduction:

The HAZOP Leadership and Management course equips professionals with the knowledge and skills to lead and manage HAZOP studies effectively. It emphasizes identifying process hazards, evaluating risks, and implementing control measures. Participants will learn structured methodologies to guide multidisciplinary teams and ensure operational safety.

The HAZOP Leadership and Management program integrates theoretical principles with practical applications to enhance decision-making. It targets the development of leadership, analytical, and risk management skills specific to industrial processes. Participants will confidently and efficiently manage HAZOP sessions.

Targeted Groups:

This HAZOP Leadership and Management training targets professionals seeking specialized knowledge and skills:

- Process safety engineers.
- Operations managers.
- Risk assessment specialists.
- Chemical and process engineers.
- HSE coordinators.
- Project managers.
- Technical supervisors.

Course Objectives:

Participants will achieve the following objectives by completing the HAZOP Leadership and Management course:

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- Understand HAZOP principles and methodology.
- Identify potential process hazards and risks.
- Lead multidisciplinary HAZOP teams effectively.
- Develop systematic risk assessment skills.
- Implement safety measures and control strategies.
- Enhance decision-making in high-risk scenarios.
- Integrate regulatory and industry standards.
- Communicate findings clearly and concisely.
- Improve overall process safety performance.
- Foster a safety-oriented organizational culture.

Targeted Competencies:

Participants will gain the following competencies during the HAZOP Leadership and Management program:

- Conduct comprehensive HAZOP studies.
- Analyze process deviations and hazards.
- Apply risk evaluation techniques.
- Lead and coordinate team discussions.
- Develop action plans for mitigation.
- Integrate safety standards and compliance.
- Use structured approaches for problem-solving.
- Enhance communication with stakeholders.
- Prioritize safety in decision-making.
- Monitor and review process safety performance.

Studying Scenarios:

In this HAZOP Leadership and Management training, participants will develop their skills through the analysis of the following scenarios:

- Identifying hazards in chemical reactors.
- Evaluating risks in oil and gas operations.
- Leading a team through deviation analysis.
- Mitigating risks in pressure vessels.
- Reviewing control measures for storage systems.
- Handling emergency response scenarios.
- Assessing compliance with safety regulations.
- Implementing corrective actions after incidents.

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Course Content:

Unit 1: Introduction to HAZOP:

- Definition and scope of HAZOP studies.
- Historical background and evolution.
- Importance of process safety management.
- Key principles and objectives.
- Types of hazards encountered in industries.
- Roles and responsibilities of HAZOP leaders.

Unit 2: HAZOP Methodology and Tools:

- Step-by-step HAZOP procedure.
- Guide words and their applications.
- Process flow diagrams interpretation.
- Risk identification and assessment.
- Documenting findings systematically.
- Using software tools for HAZOP studies.
- Communicating observations effectively.

Unit 3: Leading HAZOP Teams:

- Leadership skills for effective facilitation.
- Team selection and role allocation.
- Encouraging collaborative discussions.
- Managing conflicts and differing opinions.
- Decision-making under uncertainty.
- Time management during HAZOP sessions.
- Recording and reporting team outcomes.

Unit 4: Risk Management and Mitigation:

- Risk ranking and prioritization techniques.
- Developing and implementing control measures.
- Safety instrumented systems integration.
- Incident investigation and learning lessons.
- Regulatory compliance and auditing.
- Monitoring risk reduction effectiveness.
- Continuous improvement strategies.

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Unit 5: Practical Applications and Case Studies:

- Industrial case study analysis.
- Process deviations and hazard identification.
- Developing corrective action plans.
- Scenario-based problem-solving exercises.
- Evaluating the effectiveness of control measures.
- Reporting and communication best practices.
- Lessons learned and real-world applications.

Final Insights & Key Takeaways:

Participants will leave the program equipped to confidently lead HAZOP studies. They will apply practical strategies to enhance process safety and operational efficiency.