BLACKBIRD FOR TRAINING

Advanced Process HAZOP

6 – 10 December 2026
Amman (Jordan)



Advanced Process HAZOP

Ref: 3255230_335416 **Date:** 6 – 10 December 2026 **Location:** Amman (Jordan) **Fees:** 4900 GBP

Introduction

In high-risk industries such as oil and gas, petrochemicals, and energy, traditional safety and risk assessment methods are no longer sufficient. Complex processes require advanced techniques that go beyond compliance to anticipate failures, reduce operational risks, and safeguard both people and assets.

The Advanced Process HAZOP program is designed to provide participants with a comprehensive framework for mastering Hazard and Operability Studies at an advanced level. By focusing on leadership in multidisciplinary teams, applying systematic methodologies, and aligning outcomes with organizational strategy, this course equips professionals with the expertise to enhance operational safety and reliability.

Course Objectives

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

- Understand and apply advanced principles of HAZOP.
- Use structured methodologies to identify and evaluate process hazards.
- Analyze complex operational scenarios with accuracy.
- Lead cross-functional teams during HAZOP workshops.
- Develop proactive strategies to reduce operational risks.
- Apply both qualitative and quantitative risk assessment tools.
- Link HAZOP outcomes to strategic decision-making.
- Prepare professional reports that reflect actionable insights.

Course Outlines

Day 1: Advanced HAZOP Foundations

- Overview of advanced HAZOP principles.
- Differences between traditional and advanced approaches.
- The role of leadership in ensuring success.
- Case studies from high-risk industries.
- Organizing and managing HAZOP teams.
- Common challenges and mitigation techniques.



Day 2: Hazard Identification Techniques

- Process mapping and flow diagrams.
- Systematic identification of potential deviations.
- Structured brainstorming for operational risks.
- Human error is a contributing factor.
- Practical session: identifying hazards in sample processes.
- Review of applied industrial cases.

Day 3: Risk Analysis and Evaluation

- Assessing the probability and severity of risks.
- Advanced risk matrices and scoring systems.
- Interdependencies in process systems.
- Integrating HAZOP with functional safety standards.
- Scenario analysis and critical decision-making.
- Workshop: hands-on risk evaluation exercise.

Day 4: Risk Mitigation and Control Strategies

- Designing proactive risk reduction plans.
- Preventive and corrective measures.
- Improving operational reliability through HAZOP results.
- Change management in risk mitigation.
- Global best practices and benchmarking.
- Applied case study for real-world problem solving.

Day 5: Reporting and Governance

- Preparing structured HAZOP reports.
- Presenting findings to senior management.
- Governance and regulatory compliance.
- Future challenges in complex industrial operations.
- Final group exercise: comprehensive HAZOP assessment.
- Participant presentations and feedback session.



Why Attend This Course: Wins & Losses!

- Gain advanced knowledge of HAZOP methodology.
- Improve the ability to analyze complex operational risks.
- Strengthen leadership and facilitation skills.
- Enhance decision-making based on systematic analysis.
- Reduce accident frequency and improve safety culture.
- Apply international standards in process safety.
- Foster collaboration across diverse teams.
- Boost organizational reliability and sustainability.

Conclusion

The Advanced Process HAZOP program is more than just a technical exercise—it is a strategic tool for organizations seeking to protect assets, ensure compliance, and enhance operational resilience. By combining theory with practical application, participants gain the capability to lead high-impact studies, provide actionable insights, and foster a proactive safety culture.

For organizations operating in high-risk sectors, investing in this training means fewer incidents, greater process reliability, and long-term sustainability. The outcome is not only enhanced safety but also improved efficiency and stronger alignment with corporate goals.

