

€ TRAINING

HAZOP Revaluation of MOC plants





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Introduction:

This training program focuses on updating participants' skills in conducting Hazard and Operability Studies HAZOP within the context of Management of Change MOC plants. Through it, participants will be equipped to ensure the continued safety and operability of MOC plants through thorough HAZOP reevaluation processes.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the HAZOP methodology and effectively apply it to identify and mitigate hazards in various processes.
- Demonstrate proficiency in conducting comprehensive HAZOP studies, including knowledge of the necessary requirements and procedures.
- Differentiate between HAZOP and other hazard identification techniques, discerning their respective strengths and limitations.
- Define the roles and responsibilities of both the HAZOP Leader and participants, ensuring clear understanding of their contributions to the study process.
- Prepare adequately for HAZOP studies, including node preparation and understanding the steps involved in creating and closing out HAZOP reports.

Targeted Audience:

- Process engineers.
- Operation engineers/supervisors.
- HSE officers.
- Instrument engineers.
- Inspection engineers.

Program Outlines:

Unit 1:

Fundamentals of HAZOP Analysis:

- Introduction to HAZOP.
- Incident Case study.
- Assessing the impact of Changes Management of Change.
- A key element of operability for plants.
- HAZOP Methodology.

Unit 2:

Advanced HAZOP Techniques and Reporting:

- Process HAZOP.
- Writing HAZOP Recommendations.
- HAZOP reporting.
- HAZOP Study for procedures.
- HAZOP Team Requirements.

Unit 3:

Specialized Applications of HAZOP Studies:

- HAZOP Study for MPC plant and process safety management.
- Syndicate work - Batch HAZOP.
- Failure Mode and Effect Analysis FMEA.
- Structure What-If Techniques SWIFT.
- Selecting Hazard Identification Techniques.
- Syndicate Work-Selecting the Right Hazard Identification Techniques.

Unit 4:

Risk Assessment and Management in HAZOP:

- Syndicate Work-Selecting the Right Hazard Identification Techniques.
- Risk Ranking.

- Syndicate Work-Risk Ranking.
- Responsibilities of HAZOP Leaders Applying HAZOP Guidewords.

Unit 5:

Practical Implementation and Closure in HAZOP Analysis:

- Applying HAZOP Guidewords.
- Preparing nodes for HAZOP Study.
- Practice on How to create a Haze report and closeout the HAZOP report.