

€ TRAINING

HAZOP Revaluation of MOC plants



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Introduction:

Revalidation HAZOPs are conducted in the process industry periodically as a matter of compliance, to review the hazards of the facility and improve process safety performance. This course involves plant personnel from multi disciplines to identify process and operability hazards associated with their plant.

Several challenges are met in conducting these studies, some of which are non-availability of personnel as operational plants have several days to day activities that are required to be conducted to which HAZOP activity can be seen as an additional "burden", non-availability of information is another obstruction which is a result of no update to date documentation. These challenges have to be overcome to ensure the good quality of the study.

This course imparts the necessary knowledge to participants to develop the skills required in leading formal Hazard and Operability HAZOP reviews of design processes to facilitate identifying potential hazards against all foreseeable conditions.

Course Objectives:

At the end of this course the participants will be able to:

- The HAZOP methodology and its application.
- The requirements for conducting effective HAZOP studies.
- The differences between HAZOP and other hazard identification techniques.
- The responsibilities of the HAZOP Leader and participator.
- How to prepare for HAZOP studies.
- Full hands-on application of HAZOP studies will be provided during the training will to enable participants to acquire HAZOP leadership capabilities.

Targeted Audience:

- Process engineers
- Operation engineers/supervisors
- HSE officers
- Instrument engineers
- Inspection engineers
- Course Details/Schedule

Course Outlines:

Unit 1:

- Course Introduction.
- 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:

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

Unit 3:

- 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:

- Syndicate Work-Selecting the Right Hazard Identification Techniques.
- Risk Ranking.
- Syndicate Work-Risk Ranking.
- Responsibilities of HAZOP Leaders Applying HAZOP Guidewords.

Unit 5:

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