

Workshop on

"HAZOP (Hazard and Operability Analysis)"

3-Day Program

About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in you teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

Trainer's Profile

The Trainer has 21 years of diversified experience in Process Industry. He has completed his Engineering from UET, Lahore and has completed his MBA from IBA.

Currently he is working as a consultant of Process Safety and design. He has also been associated with many Shell-Oman, OMV, Descon, Packages, ICI, NDC Petrochemical and FFBL etc.

He is registered with ICHEmE as a Process Safety Engineer, an IChemE Chartered Engineer and also a Senior Member of AIChE.

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He has been attended different training and completed various certifications are as follows:

- HYSIS Dynamic modeling
- FSE with Exida
- HYSIS Upstream, Aspen Flare System Analysis, HYSIS EDR
- Complex Hydro Carbon Treating with SHELL.
- Oil & Gas Separators Process Design - Shell
- Fractional Distillation Process Fundamentals - Shell
- FLOW Assurance with Schulumberger, Oman
- Apply, prepare & Lead HSE RISK Management Training Courses with SHELL Netherlands
- HEMP (HAZARD & Effect Management Process) Training with SHELL Canada
- Asset integrity Process Safety Management training for Designing Barriers - PDO Oman.
- KED, the Boiler Thermal Design Software training with KED Germany.
- Role of Line Management in Safety

He has been trained over 500 professionals and conducting various training sessions in HAZOP, HAZID, SIL/LOPA, etc in different industries inside and outside Pakistan.

Training Content:

- The Safety Life Cycle. Concept
- What is Risk
- Typical Industrial Incidents of concern
- Some Major Catastrophic Industrial Accidents (Brief over view) and lesson learnt
- What is PHA and its different Hazard Identification techniques?
- Specific Safety Terms related to Hazard identification and HAZOP
- What Increases the Potential for Industrial Facilities to Become More Hazardous?
- How are Process risks analyzed?
- Risk Analysis & Risk Management
- Structured hazard identification techniques

- HAZOP - When to Use and its Concept
- Pre-Requisites of HAZOP
- Methodology details for Generating Deviations
- Main Steps in HAZOP Process including guidewords and parameters, nodding, teams, roles and responsibilities Recording methods, software
- Types of HAZOP
- TYPICAL HAZOP TEAM
- Who Should be HAZOP Facilitator
- Roles and Responsibilities of HAZOP Facilitator
- What he should not Do?
- Preparation of HAZOP Reports
- HAZOP Examples
- Sample worksheets
- HAZOP Recommendations
- HAZOP Closeout
- Pitfalls with HAZOP Dos and Don'ts of HAZOP
- HAZOP Optimization When to do What
- Choosing Size of Nodes
- HAZOP Re-Validation/ Retro HAZOP
- HAZOP Team meeting time vs no of P&IDs
- Administrative and Engineering Controls
- Consequences of Failure of Controls

The
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