



HSE188

Certified HAZOP Leader

Course Introduction:

This course explores best practice in HAZOP leadership and management. Delegates will learn about the application of the technique and how to plan and manage study program more effectively. They will also learn how best to lead study teams to ensure maximum effectiveness and successful project execution. Case studies will allow delegates to undertake a range of project team roles and provide the opportunity to guide a team through the HAZOP process.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Prepare for a HAZOP study meeting and program
- Choose nodes (parts of the drawings or operation for HAZOP study)
- Estimate the program requirements for the successful completion of a study
- Facilitate techniques to motivate the team and keep them on task
- Avoid common problems encountered during study meetings, including challenging behaviours
- Discuss HAZOP Techniques
- Act as a Team Leader of a HAZOP Team and carry out HAZOP Studies

Who Should Attend?

This course provides an overview of all significant aspects and considerations of PHA and HAZOP Studies for those who are involved in the management, engineering (design, process, chemical, facilities, instrumentation and controls), operations and safety of process operations. Engineers, safety/environment personnel, plant operators, area managers and maintenance personnel will benefit from the practical approach presented in this course.

Course Outline:

Welcome & Introduction

Pre-Test

- **Examples of major disaster accidents**
- **Hazardous materials**
 - Flammable
 - Combustible substances
- **Hazardous areas:**
 - IEC standards, ATEX directive (EC)
 - NEC – USA CENELEC (EN)
 - Process safety management (PSM – OSHA)

- Hazard identification
- Hazard analysis
- Introduction to HAZOP
 - need for HAZOP
 - what are HAZOPS?
- Components of HAZOP
- Standard guide words
- Intention, parameters, and deviation
- Preparation for carrying out HAZOP
- HAZOP team
- Team leadership skills
- Team leader qualifications
- Responsibility of participants in PHAs & HAZOP teams
- HAZOP techniques
- HAZOP methodology
- Applying HAZOP
- FMEA & fault tree
- Process hazard analysis
- Management of change
- HAZOP examples & application
- HAZOP results/recordkeeping
- HAZOP reports

Post-Test / Competency Exam

Presentation of Completion Certificate

Course Certificate:

International Center for Training & Development (ICTD) will award an **ICTD Completion Certificates** and **IAOSHE international certification** for each delegate on completion of training.

Course Fees:

This rate includes hotel training venue, participant's manual, hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day, ICTD completion certificate and IAOSHE Certificate & Wallet Card.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

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