1. Course Details:

Course Code : HSEM-005
Course Title : Certified Hazard & Operability Study (HAZOP)
Course Duration : 5 Days

2. Course Overview

- HAZOP study is one of the most widely used hazard identification methods in the world and is utilized across many different industries. Countless potential risks and problems can be identified by using the systematic and structured approach of HAZOP.This course will provide participants with an understanding of the HAZOP methodology and why it works, as well as key skills to take on the role of a HAZOP Team Leader.
- Participants will learn how to function as a HAZOP study Leader including: preparing and selecting a team, choosing nodes, estimating timescales for completion, avoiding common problems, and formulating reports.

3. Learning Outcomes:

- Acquire the knowledge necessary to prepare for, lead, generate reports for, and follow-up on HAZOP studies
- Learn key aspects of PHA necessary for compliance
- Build on your team leadership skills enabling you to be qualified to lead HAZOP teams
- Learn the use of the most advanced Process Hazard Analysis software (PHA-) specially developed for Documenting HAZOP studies
- Discover means to achieve the optimum use of team time
- Develop revalidation methods that your company can use to improve PHA quality
- Create effective and user-friendly HAZOP study reports
- Analyze HAZOP study results and make organizational improvement recommendations
- Certification of team leaders to show evidence of competency to regulators

4. Course Contents:

- Introduction to and scope of HAZOP Reviews
- Why, Who, When, How, Where of HAZOP Review
- Limitations of HAZOP Review
- HAZOP Review is not a mere formality
- Make HAZOP a habit in day-to-day life
- Regulatory requirements for process hazard analyses (PHA's)
- Overview of Failure Mode Effect Analysis (FMEA)

- Overview of Fault Tree Analysis (FTA)
- Overview of Human Reliability Analysis (HRA)
- The HAZOP Process
- HAZOP Methodology
- Difference in application to Continuous and Batch Processes
- Team meetings and team member responsibilities
- Hazard recording and reporting
- Reviewing the HAZOP case study

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study.
- Live delivery method, instructor-led training.
- Experienced consultant, trainers, and professional.
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training dep. by the end of thecourse
- Attend 100 % from the course days also providedaily
- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- Health and Safety Professionals
- Supervisors and managers responsible for safety instrumented systems
- Instrumentation and Control Engineers
- Process Engineers
- Project Managers&Engineers

- Facilities Engineers
- Rotating Equipment and Package Engineers
- Operations Engineers
- Commissioning Engineers