1. Course Details:

Course Code : HSEM-006
Course Title : Certified Process Hazard Analysis - PHA
Course Duration : 5 Days

2. Course Overview

- The goal of this training course is to develop and understanding of the requirements for a Process Hazards Analysis (PHA) and the techniques used to conduct such an analysis.Participants will collaborate in small groups to analyze scenarios using incident videos and case studies. They will use critical thinking skills to predict potential problems.

3. Learning Outcomes:

- Learn features a problem-based learning approach that provides a collaborative job focused experience.
- Participants will practice completing parts of the PHA including hazard identification, consequence analysis and hazard evaluation, risk analysis
- Development of recommendations, identify and apply procedural requirements to potential job-related safety hazards
- Use critical thinking to compare requirements to actual documented hazards.
- Participants will collaboratively build a personal compilation of recommendations to apply back at work.

4. Course Contents:

- Planning and Preparing for a PHA: Covers how to select team members, train them, and develop a charter
- Hazard Identification: Participants will identify toxic, flammable, explosive, reactive, and mechanical hazards
- Consequence Analysis:Participants will practice toxic and flammable modeling. They will also uncover the direct impact of potentially hazardous events
- Process Hazards Evaluation: Participants will explore the ways hazardous events can occur
- Determine Consequences with Loss of Engineering and Administrative Controls: Participants will determine consequences based on the consequence analysis
- Identify Independent Layers of Protection: Participants will review the results of the hazard analysis and determine the level of protection required
- Determine Frequency: Will focus on determining the frequency at which an event could occur.
- Determine Risk: Using consequence and frequency, the risk of an event will be estimated during this module

- Identify Risk Mitigation Needs:Participants will determine events that require risk mitigation.
- Develop and Prioritize Recommendations: Participants will develop recommendations to maximize efficacy of the PHA
- Prepare Report: How the PHA team should document the review team's work and prepare a report
- ***Examination***

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?

- Supervisor with an experience of 5 years
- Shift Supervisor with 5 years' experience
- Maintenances Supervisor working in process plant with an experience of 03 years
- Junior Engineers from Technical Department and Safety Department with 02-year experience
- Any specialist on PHA