1. Course Details:

Course Code : HSEM-012
Course Title : Hazard Analysis and Risk Assessment
Course Duration : 5 Days

2. Course Overview

- This course is primary intended for Engineers and safety personnel in chemical production and processing industries, including petroleum, petrochemical and Gas Processing. Participants at the end of the course will be familiar with wide range of Loss prevention techniques and will be able through risk assessment to establish priorities for changes to plant, processes or procedure to enable management to achieve an effective Loss prevention program.

3. Learning Outcomes:

- Contribute to the risk assessment programs at their workplace
- Conduct risk assessments (assuming they have the technical knowledge in relation to the activities / environments / issues being assessed
- Organize and implement a risk assessment program where this has not already been started
- Participate in the identification of specific training needs for the activities being assessed
- Assist employers in meeting legal requirements and promote improved standards of health and safety within their organization

4. Course Contents:

- Overview of Hazard Identification and Evaluation
- Legal liability, standards, and code of practice
- Process hazards “chemical, physical, mechanical, electrical, fire,…..etc”
- Hazard Identification Procedure
- Predictive Hazard Evaluation
- Anatomy of incident
- Accident Statistics and Cost
- Accidents and Related Factors
- Risk Reduction “preventive and protective methods”
- Risk Assessment; Team Make up
- Hazard Evaluation study report
- Preliminary Hazard Analysis (PHA)
- Qualitative methods
- Quantitative methods

- Elements of an effective hazard identification and control program
- Concept of Risk management and hierarchy of hazard control measures.
- Hazard & operability (HAZOP)
- Fault Tree Analysis (FTA)
- Event Tree Analysis (ETA)
- Design and reliability of protective system
- Records, Monitoring, and Review
- Risk assessment case studies and exercises
- Risk Management Software“workshop“

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?

- Process Engineers and project Engineers
- Maintenance Engineers
- Safety Engineers and or Safety Inspectors
- Maintenance & Process section Heads