SEMINAR ON
INTRODUCTION TO
PROCESS HAZARD ANALYSIS

07-08 April 2020
08:00am - 04:00PM
Manama, Kingdom of Bahrain

For registration and inquiries:
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The process of hazard analysis is a thorough, orderly and systematic approach to identify, evaluate and control the hazards of processes involving hazardous materials. An initial process hazard analysis must be performed on all process units in the oil and gas sectors. The PHA must be appropriate to identify, evaluate and control hazards involved in day processes. The course is designed to cover elements and understand the process to eliminate any potential hazard in the oil and gas industry.

**Objectives and benefits**

The participants must understand the following principles:

- What if
- Checklist
- Hazard and operability study (Hazop)
- Failure mode and effects analysis (FMEA)
- An appropriate equivalent methodology
- Consequences of failure and failure control
- Human factors and facilities
- Identification of any previous incident and lessons learnt

**Seminar outline**

- Definition of process hazard analysis as per the process safety management standard
- Highlight some history of the PHA and its applications and benefits.
- PHA methodology
- PHA matrix for hazard evaluation, analysis and control
- Understand the concept of ALARP
Methodology

There will be several short lectures, followed by case studies, videos, games, practical assignments, group workshop and discussions.

Who should attend?

Process engineers, mechanical, civil, electrical engineers, operators, technicians and designers should attend. Such a course identifies and controls the hazard risk in oil and gas, refineries, petrochemicals and water desalination and power plants.

Facilitator

Mohamed Alaradi

An offsite and utilities Senior Project Engineer, holding a BSc in Mechanical Engineering form KFUPM at Saudi Arabia, with 27 years of experience in oil and gas specialized static equipment design, material selections, installation and maintenance such as storage tanks, pressure vessels, heat exchangers, heaters, pipelines ...etc.

Active member of Bahrain Society of Engineers (BSE) holding technical training courses for new engineers technicians in Basic Engineering Skills and Best Practices for design, selection and execution of successful engineering projects and Project Management System for professional engineers.
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