

Anmar International Center for Training

C.R. 2055024564

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Learning Topic: Advanced Process Hazard Analysis (PHA) Methods & Leadership (HAZOP, What-if, FMEA).

Course Name: Certified HAZOP Leader

Reference Code: SAF 307

Description:

A Process Hazard Analysis (PHA) is an organized effort to identify and analyze the significance of hazardous situations associated with a process or activity. Specifically, PHA studies are used to pinpoint weaknesses in the design and operation of facilities that could lead to accidental chemical releases, fires, or explosions.

This training teaches you the fundamental of PHA and systematic approach to effective use of appropriate techniques in all settings. It covers, HAZOP, What-if, FMEA, and FTA

Course Objective:

Learn to organize and lead process hazard analysis studies

Develop the basic requirement for collecting data and information to conduct PHA

Conduct PHA using "What-If" technique.

Conduct PHA using "FTA" technique.

Conduct PHA using "HAZOP" technique.

Conduct PHA using "FMEA" technique.

Conduct PHA using "ETA" technique.

Learn to organize and conduct PHA Revalidation

Program Methodology:

The course is conducted in a workshop fashion and is based with large capacity of training aid materials and practical sessions; and customized for SHE team in performing advanced PHA. Sessions include formal presentation, interspersed with directed discussion, workshops and case study. In addition, relevant videos will be shared and commented on.

United Arab Emirates

Emirates Towers, Level 41 Sheikh Zayed Road Dubai-UAE. P.O Box 3103

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Who Should attend?

Course Outline:

This course targets HSE team leaders, supervisors and managers as well as any staff members who may be involved in conducting PHA for the facility.

 Overview of PHA Hazard Scenarios PHA Regulatory Requirements Hazard Identification, HAZID PHA Methods Overview
 Checklist What-If Hazard and Operability (HAZOP) Failure Modes and Effects Analysis (FMEA) Fault Tree Analysis (FTA) Event Tree Analysis (ETA) Bow Tie Analysis (BTA)
 □ Process Hazard Review (PHR) □ Preparing and Organizing PHA Studies □ Subdividing the Process for Study □ Inherent Safety Review □ Completing the PHA Worksheet • Team Leader Role and Responsibilities

Recording PHA Studies

- Design Intent, Parameters and Deviations
- Causes
- **Events**
- Consequences
- Safeguards
- **Enablers**
- Risk Ranking

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Venue

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Course Fee

 Recommendations
Overall Guidelines
Meeting Regulatory Requirements
Leadership Skills for Managing the Team
Management of PHA Studies
Multiple Failures in PHA
Human Failures and Human Factors in PHAs
Facility Siting in PHAs
Utilities and Support Systems in PHA
Modes of Operation in PHAs
PHA of Process Changes
PHA for Batch Processes
Quality Control in PHA Studies
PHA Revalidation Overview
Preparing for PHA Revalidations
Conducting and Documenting PHA Revalidations
PHA Report Preparation

Time: 08:00 AM -03:00 PM **Numbers of hours: 30** Hours

Date

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Course Duration

5 Days

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