

Learning Topic: Safety Engineering & Risk Management

Course Name: 2. Risk Assessment and Management.

Reference Code : SAF 329

Description:

A well established and proactive risk management processes underscore industry's commitment to comprehensive and effective risk management at all levels. Reputable industries recognize that integrating risk management philosophy and practice into its culture is an ongoing process which, in order to be effective, must be a continuous, dynamic and developing.

This training provides delegates with understand of the role of risk assessment.

Course Objective:

At the end of the program, the participants will:

- Understand the role of Risk Assessment in safety management.
- Be able to apply simple systems for evaluating the degree of risk.
- Understand the principle of "Uncertainty & Risk-based Decision-making".
- Be able to conduct basic Bow Tie Analysis, HAZOP, What-If Analysis, Event Tree Analysis (ETA) on industrial processes
- Comprehend the identification and application of additional control measures to manage risk to levels that are tolerable and As Low as Reasonably Practicable (ALARP)

Program Methodology:

The workshop is based with large capacity of training aid materials and practical sessions; and customized for basic train-the-trainer and the technical aspect of Risk Assessment and Management, providing meaningful experience for SHE personnel that work in petrochemical facilities. Sessions include formal presentation, interspersed with directed discussion, workshops and case study.

United Arab Emirates

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

Kingdom of Saudi Arabia

Khobar Gate Tower
King Fahad Street , Khobar 31952

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101 Business Tower, 8th Floor
Al Jubail 35513, Bldg# 9278 ,KSA

Who Should attend?

This training is beneficial to:

- ESH Professional
- Areas Mangers
- Supervisors
- Anyone involved in Risk Assessment Process

Course Outline:

1.Risk Identification And Evaluation

- Overview of the risk assessment process
- How to establish a formalized risk assessment process
- Occupational hazards identification and risk assessment
- Developing a qualitative RA
- The use of risk matrices to prioritize the risks.
- Workshop

2.Hazards Identification and Risk Assessment

- Developing a semi-quantitative RA
- Elements of a process accident
- What-if Analysis approach to RA
- Practical RA workshop using the What-if Analysis technique

3.Selecting an Appropriate Risk Assessment Approach – Applicability

- Selecting the appropriate technique for the RA
- Related video on real accident and elaboration
- Bow Tie Analysis approach
- Practical RA workshop using the Bow Tie Analysis

4.Practices on RA Techniques

- Related video on real accident and elaboration
- Event Tree Analysis (ETA)
- Practical RA group workshop using the ETA Analysis
- HAZOP Approach to RA
- Practical RA workshop using the HAZOP Analysis.

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5.Risk Management

- The principle of “Uncertainty & Risk-based Decision-making
- Dealing with information precision & uncertainty
- Systematic approach to risk reduction
- Hierarchy in risk controls – preventing vs. mitigating
- Reduction of environmental risks
- Acceptable risk” & As Low As Reasonable Practicable (ALARP)
- The “human factor” approach
- Group Workshop.

Course Duration	Date	Venue	Course Fee
5 Days			

Time: 08:00 AM -03:00 PM

Numbers of hours: 30 Hours

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