

# **Hazard Recognition**

# HH172

#### **Course Overview:**

Systematic risk-based inspection can assess the likelihood and potential consequences of the failure of pressure equipment. Risk-based inspection provides an opportunity for companies to prioritize inspection equipment; improve methods of inspection,frequency resources,develop specific plans inspection equipment, and enable the implementation of reliability centered maintenance.

### **Course Objective:**

- -understanding of the key aspects of Risk Based Inspection, its advantages and limitations
- -understanding of how it is linked to reliability-centered maintenance
- -Understand how fitness-for-service assessment affects the Risk
- -Provide you with the practical and effective methods you need to perform practical likelihood and consequence analysis
- -Learning how to develop optimum Inspection intervals for individual equipment
- based on the assessment of the active degradation

#### **Course Outline:**

- -Preparing for the hazard evaluation (risk review or PHA)
- -Quantitative & qualitative hazard
- -Hazardous materials (flammable & combustible substances)
- -Preliminary hazards analysis
- -HAZOP technique
- -Common Inspection Strategies and Their Limitations
- -Risk-Based Decision-Making Fundamentals and Tools
- -Understanding and Managing Risk
- -Risk Based Inspection Definitions
- -Risk Based Inspection Evolution
- -Reasons for implementing Risk Based Inspection
- -Inspection planning guidance
- -Inspection History, Interpretation
- -Equipment Data Base
- -Inspection Interval Optimization Based on Assessed Risk
- -Evaluation of Inspection Results
- -Estimation of Consequences of Failures

#### Who Should Attend:

- -Operations Engineers
- Maintenance Engineers
- -Engineering managers and supervisors
- -Technical staff with responsibilities for inspection, maintenance, assessment and mitigation of plant equipment degradation

## Page: 1 | 1

Training Language: EN / AR

### **Training Methodology:**

- -Presentation & Slides
- -Audio Visual Aids
- -Interactive Discussion
- -Participatory Exercise
- -Action Learning
- -Class Activities
- -Case Studies
- -Workshops
- -Simulation

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