

# Corrosion Management Training

Consultant / Trainer

**Ali Morshed**



The **Petrogenium. Corrosion Management Training** course will provide the participants with the most innovative and modern approach to asset corrosion control in the oil and gas industry. It will help them to enhance their existing corrosion control system by introducing the concept of risk into their asset integrity management system (AIMS) and by further promoting their corrosion failure preemption capability. One of the main outcomes of such a novel approach to asset corrosion control would be optimising corrosion and integrity costs.



### Participants

This **Petrogenium.** course is useful for any discipline which contributes to the asset integrity management system (AIMS) in general and to the asset corrosion control in particular. To attend the course, one does not require any specific technical or engineering background; however, some basic or general field experience is beneficial. There are numerous group exercises and case studies incorporated into the course to further help the participants to better appreciate the various applications, concepts and topics covered and discussed throughout this training course



### Learning Objectives

After completion of this course the participant will learn to:

- How to differentiate between the CE and CM concepts
- How the CM approach to asset integrity management is more efficient than the CE approach
- How to create and improve the 'corrosion failure pre-emption capability'
- How to use the corrosion engineering-based tools (e.g., design, materials selection, chemical treatments, coatings and CP) more efficiently
- How to create plant integrity windows & corrosion key performance indicators
- How to optimize corrosion costs

# Programme

## DAY 1

- The Significance of Creating the Integrity Picture
- Asset Integrity Management Systems (AIMS)
- AIMS Components, Objectives, and Benefits
- Corrosion and Corrosion Engineering (CE) in the Industry
- The Main International Corrosion Management (CM) Models
- The CM Concept Definition
- Pre-Course Assessment

## DAY 2

- The Integrity Review Process
- The Significance of the Integrity Review Process
- The CM Implementation Process
- The Failure Risk Assessment (FRA) Process
- A Brief Introduction to Risk-Based Inspection (RBI)
- Inspection Basics
- The Concept of Risk and Its Basics
- Risk-Based Inspection Basics
- Equipment Corrosion Loops and Process Flow Diagrams

## DAY 3

- Introduction to Management Requirements: Twelve Management Requirements
- Registers, Strategies, and Procedures
- Databases, Documentation, and Data Management
- The Significance of Communication

## DAY 3 cont,

- The Asset Corrosion Management Strategy Document
- Corrosion Control Matrices and Corrosion Key Performance Indicators
- Team Structure, Roles, and Responsibilities
- The Significance of Competency

## DAY 4

- Shortcomings Associated with the CM Implementation Process
- The Corrosion Failure Pre-emption Capability
- Corrosion Cost Optimisation
- Other Important CM Requirements
- The Corrosion Management Audit
- The Management of Change Process
- The Anomaly Management System

## DAY 5

- The Leak Register Database, Failure Investigations and Learning from Past Mistakes
- Corrosion Management Application Benefits
- Recommendations for Optimised Corrosion Management Implementation
- Main Conclusions
- Main Recommendations
- Post-Course Assessment



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## Why select Petrogenium.?

The above support will be provided by principal consultants with 20+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

## Contact Petrogenium.:

Email: [training@petrogenium.com](mailto:training@petrogenium.com)

Website: <https://www.petrogenium.com/training/>

***Because Experience Matters***