

# € TRAINING

Comprehensive Maintenance Management  
for Oil and Gas Facilities





# Comprehensive Maintenance Management for Oil and Gas Facilities

## Introduction to the Program:

This professional training program focuses on equipping participants with essential knowledge and skills in maintenance management specific to oil and gas facilities. It emphasizes practical strategies, industry standards, and technological advancements aimed at optimizing asset performance and ensuring operational reliability.

## Program Objectives:

- To enhance participants' understanding of maintenance management principles tailored to the oil and gas industry.
- To provide practical tools and methodologies for effective maintenance planning, execution, and optimization.
- To familiarize participants with regulatory compliance requirements and safety protocols relevant to maintenance activities.
- To equip participants with skills in utilizing technology and data-driven approaches for predictive and preventive maintenance.
- To enable participants to implement continuous improvement strategies to enhance maintenance efficiency and reduce downtime.

## Targeted Audience:

- Maintenance managers, supervisors, and engineers in oil and gas facilities.
- Asset managers and reliability engineers involved in maintenance planning and execution.
- Health, safety, and environmental HSE professionals responsible for integrating safety standards into maintenance operations.
- Technical personnel seeking to enhance their skills in asset management and maintenance optimization within the oil and gas sector.

## Outlines:

### Unit 1:

#### Maintenance Strategy and Planning

- Strategic importance of maintenance in oil and gas facilities
- Maintenance planning methodologies
- Risk-based maintenance RBM approaches
- Predictive maintenance techniques
- Maintenance scheduling and optimization

### Unit 2:

#### Asset Management and Reliability

- Asset lifecycle management

- Reliability-centered maintenance RCM
- Condition monitoring techniques
- Failure analysis and root cause analysis RCA
- Spare parts management and inventory control

### Unit 3:

#### Regulatory Compliance and Safety

- Regulatory requirements in the oil and gas industry
- Safety standards and protocols in maintenance operations
- Environmental considerations in maintenance practices
- Compliance auditing and monitoring
- Incident investigation and corrective actions

### Unit 4:

#### Technology and Digitalization in Maintenance

- Role of technology in modern maintenance practices
- Digitalization trends in asset management
- IoT and predictive maintenance applications
- Data analytics for maintenance decision-making
- CMMS Computerized Maintenance Management Systems implementation

### Unit 5:

#### Performance Metrics and Continuous Improvement

- Key performance indicators KPIs for maintenance management
- Benchmarking maintenance performance
- Continuous improvement methodologies e.g., Lean, Six Sigma
- Change management in maintenance operations
- Training and development for maintenance personnel