



London TDM

# Oil and Gas Industry Training Courses

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 12 April 2026 To 16 April 2026

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

Corrosion Control in Oil and Gas Facilities is essential for maintaining the integrity and safety of infrastructure within the industry. This 5-day course is designed to equip professionals with the knowledge and skills necessary to effectively manage and mitigate corrosion in oil and gas facilities. Through a combination of theoretical knowledge and practical applications, participants will gain a comprehensive understanding of the various aspects of corrosion control.

- Understand the fundamental principles of corrosion and its impact on oil and gas facilities.
- Identify different types of corrosion and assess the damage potential associated with each type.
- Learn about various corrosion control methods and their application in the industry.
- Develop skills in selecting and implementing appropriate corrosion monitoring and mitigation strategies.
- Gain insights into industry best practices and regulatory compliance related to corrosion control.

## Course Outlines

### Day 1: Introduction to Corrosion

- Basic principles and definitions of corrosion.
- The electrochemical nature of corrosion processes.
- Different forms of corrosion and their characteristics.
- Understanding the fundamentals of material degradation in oil and gas environments.
- Introduction to corrosion economics and the impact on the oil and gas industry.

### Day 2: Identification and Assessment of Corrosion

- Corrosion identification techniques.
- Assessing corrosion damage and risk management.
- Introduction to corrosion inspection and monitoring methods.
- Analyzing case studies of corrosion failures in facilities.
- Application of corrosion assessment tools and technologies.

### Day 3: Corrosion Control Techniques

- Overview of corrosion protection and control strategies.
- Coatings and linings for corrosion prevention.
- Cathodic protection principles and applications.
- The role of material selection in corrosion control.
- Chemical corrosion inhibitors and their use in the field.

### Day 4: Implementation and Maintenance Strategies

- Developing corrosion management plans.
- Implementing and maintaining corrosion control systems.
- Periodic inspections and monitoring programs.
- Evaluating the effectiveness of corrosion control measures.
- Training and development of personnel in corrosion management.

## **Day 5: Regulatory Compliance and Best Practices**

- An overview of industry standards and regulations.
- Aligning corrosion control with health, safety, and environmental policies.
- Best practices in corrosion management.
- Case studies of successful corrosion control in the industry.
- The future of corrosion management and emerging technologies.