

# Corrosion and Corrosion Control in Oil & Gas Industry

 **Manchester - UK**

## Overview

Corrosion is of enormous economic importance and can be of high cost for countries and companies worldwide. The global cost of corrosion has been estimated to be more than 10 trillion US dollars (World Corrosion Organization). Oil and gas industry as well as domestic assets are subject to severe corrosion due to aggressive environment, (i.e., salty waters, contaminated mud soils, polluted/aggressive atmosphere). Therefore, there is a great need, for oil and gas industry workers, to understand corrosion and corrosion protection methods, which is required to consider in facilities design, construction, operation, and maintenance.

This training focuses on the concept of corrosion, its features, main types, and the potential problems and consequence caused by corrosion in oil and gas industry. It provides a basic but thorough review of causes of corrosion and the methods by which it can be identified, monitored, and controlled. The active participation in this training course will enable participants to understand the whole story of corrosion and corrosion control methods through hands-on experiments and case studies, as well as on open discussion format.

## Target Audience

- Engineers/Designers
- Technicians
- Technical/projects Managers
- Researchers

 **6-9 May 2024 (5 days)**

## Objectives

- Provide principles and guidelines to identify and understand the concepts of corrosion and material destruction in assets/installations and equipment used in the oil and gas industry.
- Understand the impacts and costs associated with corrosion problems resulted from not protecting assets against corrosion.
- Define the electrochemical corrosion process and mechanism and identify the methodologies of controlling this process.
- Learn a basic principle of the theoretical and practical aspects of corrosion control and the various methods used to control corrosion, like material selection, coating and lining, corrosion inhibitors and cathodic protection.
- Learn the basic tools for capturing corrosion problems and how to perform structures and equipment failure analysis.
- Overview of specific inspection/testing, monitoring tools and methods to identify and monitor corrosion problems and the efficiency of corrosion protection methods. Practical examples and case studies will be discussed.
- Understand the various corrosion protection standards/specifications used in the industry and at all levels.

- Advisors/Supervisors
- Operators/Inspectors
- Instructors
- Quality Control

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## Course outlines

- Basics of Electrochemistry and Electrochemical Corrosion
- Types of Corrosion Environments in oil and gas industry
- Engineering Materials (metallic and non-metallic)
- Forms/types of Corrosion
- Corrosion Control & Prevention Methods
- Failure investigation and analysis.
- Testing & Monitoring Techniques Prerequisites

Note: No previous training in corrosion control is required. However, to gain the most from this course, a basic understanding of metallurgy, material science and chemistry is recommended.

- Number of hours: 6 hours /Day
- Language: English & Arabic
- Training Venue: 4\* Hotel

## Course Fees\*

- KD 1,200 includes:
- Professional Training
- Coffee & Lunch Break
- Training material
- Attendance CERTIFICATE from Majestix Training
- 2-site visits to Corrosion research center + private industrial company

\* Fees do not include accommodation or flight expenses



## Bank Details

اسم المعهد: انفوتك  
اسم البنك: بيت التمويل الكويتي- فرع الأندلس  
رقم الحساب: 351010008271  
رقم الآيبان: KW84KFHO000000000351010008271

## Instructor Profile



### Dr. Muayad Ajjawi

Corrosion Engineering- Manchester University, MISOTC67, MIOGPCSS and AMPP.

Internationally recognized corrosion expert with speciality in corrosion inhibitors, coating/lining and writing standards/specifications on these subjects.

### Experience

Muayad has great experiences (more than 30 years) in corrosion and corrosion control in industry and in coaching of corrosion Engineers, technical specifications developer/writers, and coordinators. He led project teams on design for corrosion protection, corrosion failure analysis and continuous improvement teams and divisions in Gulf Region as well as International.

He has more than 25 years of extensive global experience in corrosion and coatings standards drafting and standards development.

He created, implemented, and maintained the corrosion control, coating and lining and corrosion inhibitors standards and specifications in KOC, Qatar Energy and GSO.

He led teams of developing coating and lining standard/specifications in the Gulf Oil and Gas industry and International (ISO and IOGP).

He is the founding standards technical committee manager of the GSO TC 7 (Gulf oil and gas industry standards committee) and IOGP CSSC. He led various project standards under these committees.

Muayad is a member in ISO TC67 (International oil and gas industry technical committee) and its editing committee and the Convenor of the ISO TC 67 WG11 (coating and lining), managing their project standards/teams and work programs.

### Discount Policy:

- 5% for early registration before: 30th Feb 2024
- 5% for groups of 5 participants and above

### Cancellation Policy:

- 100% refund before 60 days
- 50% refund before 45 days
- No refund before 30 days