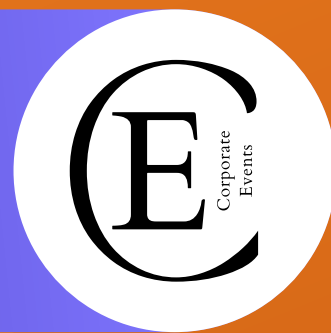


CORROSION BASICS, FORMS, CONTROL & MITIGATION METHODS

23rd - 26th - June 2025
Hotel Sofitel Duabi - UAE



COURSE OVERVIEW

Coastal and offshore structures in the Middle East face severe corrosion challenges due to harsh environmental conditions. This course is designed for professionals in oil and gas operations who are involved in inspection, maintenance, and corrosion control of offshore assets.

Participants will gain a foundational understanding of corrosion types, causes, and mitigation methods. Topics include relevant design codes, material selection, coatings, linings, chemical inhibitors, and corrosion management strategies. A dedicated module covers cathodic and anodic protection systems, offering practical knowledge on installation, monitoring, and maintenance for structures like pipelines, tanks, and concrete facilities.

The course combines lectures with case studies, giving delegates practical insight into real-world corrosion issues and solutions.

COURSE OBJECTIVES

Participants will be able to:

- Understand basic corrosion mechanisms and soil-related corrosion.
- Identify types of corrosion and corrosive soil conditions.
- Apply corrosion control methods like coatings and cathodic protection.
- Differentiate between sacrificial anode and impressed current systems.
- Manage corrosion in tanks using inhibitors and monitoring tools.
- Measure and assess cathodic protection system effectiveness.
- Explain ICCP systems and rectifier applications.
- Design CP systems for tanks and secondary containment.
- Address stray current issues in plant systems.
- Plan offshore CP design, retrofitting, and maintenance.
- Monitor corrosion in reinforced concrete using CP systems.

TRAINING METHODOLOGY

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 50% Lectures
- 25% Workshops & Work Presentations
- 15% Case Studies & Practical Exercises
- 10% Videos, Software & General Discussions

WHO SHOULD ATTEND

This course provides an overview of all significant aspects and considerations of cathodic protection for those who are responsible for cathodic protection systems, measuring the effectiveness of cathodic protection systems and/or recording this data, including pipeline design engineers, pipeline operations engineers, corrosion engineers, materials engineers, design engineers, mechanical engineers, inspection engineers, chemical engineers, marine maintenance people, offshore structure design and operation people, CP field personnel, supervisors and other technical staff.

COURSE TRAINER



Dr. Antonio Martinez
CORROSION & CATHODIC PROTECTION EXPERT

Dr. Antonio Martinez is a Chemical Engineer with a PhD in Physics-Chemistry and Corrosion, bringing over 45 years of specialized experience in corrosion prevention, cathodic protection, and asset integrity within the oil, gas, and petrochemical industries.

He holds degrees from Simon Bolivar University in Venezuela and Dijon University in France. Throughout his career, he has held senior engineering positions at Petrochemical Co. in Venezuela, Corpro Co ME, ADMA-OPCO, ARAMCO, Rumaila Operating Organization in Iraq, and Asset Integrity Engineering in the UAE. Dr. Martinez is widely recognized for his expertise in designing and managing corrosion control systems for storage tanks, offshore platforms, pipelines, and water treatment facilities.

Awards

Dr. Martinez was honored with the Outstanding Contribution to Corrosion Advancement Award in the United Arab Emirates in 2010. He is also a NACE Fellow, a prestigious distinction he has held for over 30 years, acknowledging his lifelong commitment & impact in corrosion control and management.

Publications

He is the author of several influential publications focused on cathodic protection, corrosion inhibition, offshore protection systems, pipeline integrity, and microbiological corrosion. His research & technical papers have contributed significantly to industry best practices & the advancement of corrosion science.

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COURSE CONTENT

INTRODUCTION TO MECHANISMS/PROCESSES OF CORROSION AND TYPES COMMONLY ENCOUNTERED

The aim of this Module is to highlight the fundamentals of corrosion, as well as the potential problems, direct and indirect HSE and cost impact caused by corrosion. It provides a review of the types of corrosion, causes, & the methods for identification, monitoring & control.

RECAP OF RELEVANT DESIGN CODES AND RULES/EXISTING STANDARDS

Review and familiarize with the existing standards, editions, publications, guidelines and best practices, such as NACE, API, BS, EN, DIN, related to corrosion and deterioration of Offshore structures.

CORROSION MITIGATION BY MATERIALS SELECTION

It will explain also the use of various metals and non-metals, physical characteristics, how and why different metals are selected for specific environmental purposes, including resistance to wear, corrosion, heat, cold, splash zone, and impact.

CORROSION MITIGATION BY COATING, LINING SYSTEMS AND CORROSION INHIBITORS

This lecture will introduce different coating systems of steel structures, including organic Coatings, active (galvanic) coatings, thermal spray coatings, inhibitive coatings, application of coatings. It will also introduce failure mechanisms of coating and give some guidance on testing methodologies. A review of the category of atmospheric corrosivity classification and impact on the ability to cause corrosion in a harsh environment based on ISO 9223, considering sulfur dioxide (SO₂), coastal area salinity, relative humidity, temperature, and the effects of solar radiation, is given.

CORROSION MITIGATION BY CATHODIC AND ANODIC PROTECTION SYSTEMS

This Module is designed to provide participants with an elementary grounding in cathodic protection engineering. It provides basic knowledge and fundamentals for understanding of sacrificial and impressed current cathodic protection systems applied to Offshore structures: subsea pipelines, wellhead towers, risers, boat landings, caisson legs and any immersed facility. It will explain also how to choose appropriate CP systems for different structures.

PERFORMANCE ASSESSMENT TECHNIQUES OF CORROSION MONITORING AND CORROSION CONTROL

Corrosion and Inspection Engineers are called to be involved continuously in the engineering principles and corrosion control methods to ensure all the time the integrity of the Offshore facilities. This lecture will provide detailed assessment of various techniques of corrosion monitoring & control, and Key Performance Indicators to implement effective and effective corrosion management strategy.

IMPLEMENTATION OF EFFECTIVE MONITORING/CONTROL STRATEGIES FOR CORROSION MANAGEMENT

Most of the time the corrosion engineer is called to deal with integrity assessments and repair of severe corrosion affected structures. This lecture will explain the strategy of developing Corrosion Management Strategies, including effective corrosion monitoring/control, to ensure all aspects of corrosion management & engineering are properly implemented, including the revision of corrosion KPIs best practices.

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REGISTRATION FORM

To register, simply email the scan copy of the signed registration form on training@corevents.org

REGISTRATION DETAILS

▪ Name: _____
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PAYMENT MODE

- Payments will be made by Credit Card or by Bank transfer, an Invoice will be sent after we receive the signed & filled registration form.
- Payment has to be made within 5 working days upon receiving an invoice.

ORGANIZATION DETAILS

Company: _____
Telephone: _____
Country: _____
Address: _____

AUTHORIZED BY

Signature: _____
Name: _____
Date: _____
Email: _____

PAYMENT DETAILS

Credit Card Holder's Details - To Send Payment Link

First Name: _____
Last Name: _____
Email: _____
Country: _____

BOOK & PAY

Book before 23rd May 2025, Pay
USD 3,495 per delegate.

Book after 23rd May 2025, Pay
USD 3,995 per delegate.

Group Discount:

- 10% off on the registration of 2-3 participants.
- 20% off on the registration of 4-5 participants.
- 35% off on the registration of 6 or more participants.

EVENT CODE: SOD-AE-25

DATE: 23rd - 26th - June 2025 | Hotel Sofitel Duabi - UAE

Time: 09:00 am - 04:30 pm (UAE Standard Time)

TERMS & CONDITIONS

Customer Information:

Fees include all the tuition, full course documentation, lunches and refreshments for the duration of the programme.

Incidental expenses:

CorEvents is NOT responsible for covering airfare or other travel costs incurred by registrants. Delegates will be responsible for their own accommodation. Delegates are strongly advised to obtain relevant travel visas up to 3 weeks prior to the course. An invoice will be sent upon receipt of registration form. Payment must be received in full prior to the course start.

Disclaimer:

CorEvents reserves the right to change or cancel any part of its published programme due to unforeseen circumstances.

Cancellation policy:

A full refund less an administration fee of \$100 will be given for cancellation requests received up to 20 working days before the event. Cancellations must be made in writing (email) and reach this office before the 20 working day deadline. Delegates who cancel less than 20 working days before the event, or who don't attend, are liable to pay the full course fee and no refunds can be given. However, if you wish to transfer to another course of the same value, and you have paid your course fee in full, you will only be invoiced for 50% of the new course fee. Please note that you can only transfer once. Please note that the next course must take place within 12 months of the initial application. Of course, a replacement is always welcome. CorEvents reserves the right to change the time and meeting venue.