



*Training Course:  
Corrosion Control Management*

*21 March - 1 April 2027  
Sharm El-Sheikh (Egypt)  
Sheraton Sharm Hotel*

## Training Course: Corrosion Control Management

Training Course code: EN9101 From: 21 March - 1 April 2027 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel  
Training Course Fees: 7820 € Euro

### Introduction

Corrosion is a critical challenge across industries such as oil & gas, power generation, marine, and infrastructure, leading to asset degradation, safety risks, and high maintenance costs. Effective corrosion control management is essential to ensure asset integrity, operational reliability, and long-term sustainability.

This program, designed by Global Horizon Training Center, provides a comprehensive 10-day training that equips participants with advanced knowledge and practical skills to identify, monitor, prevent, and manage corrosion using modern technologies and international standards.

### Course Objectives

By the end of this program, participants will be able to:

- Understand advanced corrosion mechanisms and influencing factors
- Apply material selection and corrosion prevention techniques
- Implement corrosion monitoring and inspection systems
- Develop and manage corrosion control programs
- Apply risk-based inspection and integrity management
- Analyze corrosion data and assess asset condition
- Troubleshoot corrosion-related failures
- Ensure compliance with international standards NACE, ISO

### Target Audience

This program is designed for:

- Corrosion and Materials Engineers
- Inspection and Integrity Engineers
- Maintenance and Reliability Engineers
- Oil & Gas and Industrial Professionals
- Asset Management and Technical Staff
- Professionals involved in corrosion prevention and control

### Outline

#### Day 1: Fundamentals of Corrosion Science

- Electrochemical principles of corrosion
- Types of corrosion uniform, pitting, galvanic, SCC
- Environmental effects on corrosion
- Corrosion in industrial systems
- Safety considerations

#### Day 2: Advanced Corrosion Mechanisms

- Microbiologically influenced corrosion MIC
- High-temperature corrosion
- Erosion-corrosion and cavitation
- Hydrogen damage and cracking
- Case-based analysis

#### Day 3: Materials Selection and Design

- Material properties and corrosion resistance
- Selection of metals and alloys
- Non-metallic materials and composites
- Design for corrosion prevention
- Standards and codes

#### Day 4: Protective Coatings and Linings

- Types of coatings and applications
- Surface preparation techniques
- Coating inspection and testing
- Failure mechanisms in coatings
- Quality control practices

#### Day 5: Cathodic and Anodic Protection Systems

- Principles of cathodic protection CP
- Sacrificial anode and impressed current systems
- Design and installation of CP systems
- Monitoring and maintenance
- Troubleshooting CP systems

#### Day 6: Corrosion Monitoring and Inspection Techniques

- Inspection methods and tools
- Corrosion monitoring systems
- Non-destructive testing UT, RT, etc.
- Data collection and interpretation
- Corrosion rate measurement

#### Day 7: Risk-Based Inspection and Integrity Management

- Principles of Risk-Based Inspection RBI
- Asset integrity management systems

- Inspection planning and scheduling
- Failure modes and risk assessment
- Compliance with NACE and ISO standards

#### Day 8: Corrosion Data Analysis and Assessment

- Data analysis techniques
- Fitness-for-service FFS assessment
- Predictive modeling and trend analysis
- Decision-making based on data
- Reporting and documentation

#### Day 9: Troubleshooting and Failure Analysis

- Identifying corrosion-related failures
- Root cause analysis RCA
- Mitigation and corrective actions
- Case studies and lessons learned
- Preventive strategies

#### Day 10: Optimization, Strategy, and Case Studies

- Developing corrosion control strategies
- Cost optimization and lifecycle management
- Best practices in corrosion management
- Integration with maintenance systems
- Final case studies and practical applications

## Registration form on the Training Course: Corrosion Control Management

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Company Information

Company Name: .....  
Address: .....  
City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
- ☐ Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
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Giza, Giza Governorate,  
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