



*Training Course:
Corrosion Control Management*

*27 June - 8 July 2027
Cairo (Egypt)*

Training Course: Corrosion Control Management

Training Course code: EN9101 From: 27 June - 8 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 6950 € 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

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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