

CORROSION CONTROL IN GAS, OIL & WATER

“Protecting Assets, Ensuring Safety, and Extending Equipment Life Through Effective Corrosion Prevention Strategies”

Schedule

| Venue (In-house) | Fees |
|-------------------------------|-----------------------|
| At Your Organization Premises | Ask For The Quotation |

► **Available delivery methods:** In-House Training

Introduction

Corrosion is one of the most critical challenges in the oil, gas, and water industries, leading to costly equipment failures, production losses, and safety risks. Effective corrosion control is essential for maintaining asset integrity, operational reliability, and environmental compliance.

This Certificate in Corrosion Control in Gas, Oil & Water Systems provides participants with a comprehensive understanding of corrosion mechanisms, monitoring techniques, and control strategies. The course covers corrosion in pipelines, process plants, tanks, and water systems, and highlights the use of coatings, inhibitors, cathodic protection, and material selection for prevention and mitigation.

Participants will gain practical insights into corrosion diagnosis, inspection methods, and maintenance planning to ensure long-term asset protection and operational efficiency.

Objectives

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

- Understand the principles and mechanisms of corrosion in oil, gas, and water systems
- Identify types and causes of corrosion, including uniform, pitting, galvanic, and microbial corrosion
- Select suitable materials and coatings for corrosion resistance
- Apply corrosion prevention and mitigation techniques effectively
- Use corrosion monitoring and inspection methods to detect and assess damage
- Implement cathodic protection and chemical inhibitor systems
- Develop and manage corrosion control programs for pipelines and processing equipment
- Ensure compliance with safety and environmental regulations related to corrosion control

Why Attend

This course helps professionals build the technical knowledge and practical skills necessary to prevent and control corrosion-related problems in industrial systems. Participants will learn how to evaluate corrosion risks, choose the best prevention methods, and implement cost-effective maintenance strategies.

By attending, you will improve system reliability, reduce maintenance costs, and extend the life of valuable assets in oil, gas, and water operations.

Target Audience

This course is ideal for:

- Corrosion Engineers and Specialists
- Maintenance and Inspection Engineers
- Pipeline and Facility Engineers
- Production and Process Engineers
- Quality Assurance and HSE Personnel
- Asset Integrity and Reliability Professionals
- Technicians and Supervisors involved in equipment maintenance and corrosion monitoring

Individual Benefits

- Gain in-depth knowledge of corrosion causes, effects, and prevention techniques
- Improve ability to diagnose and manage corrosion-related failures
- Learn how to design and maintain corrosion control systems
- Enhance technical decision-making in material and inhibitor selection
- Develop skills in corrosion monitoring and risk assessment
- Strengthen professional qualifications in integrity and reliability management

Organizational Benefits

- Reduce maintenance costs and equipment replacement frequency
- Improve plant reliability and production uptime
- Ensure regulatory compliance and operational safety
- Extend the lifespan of critical infrastructure and assets
- Minimize environmental and safety risks caused by corrosion failures
- Develop in-house expertise for proactive corrosion management

Instructional Methodology

This training uses an interactive and practical learning approach including:

- Instructor-led technical presentations
- Real-world case studies and industrial examples
- Group discussions and troubleshooting exercises
- Demonstrations of corrosion inspection and monitoring tools
- Hands-on activities and problem-solving workshops
- Continuous feedback and participant evaluation

Course Outline

- Module 1: Introduction to Corrosion and Its Industrial Impact
- Module 2: Types and Mechanisms of Corrosion in Oil, Gas, and Water Systems
- Module 3: Factors Affecting Corrosion and Material Degradation
- Module 4: Corrosion Monitoring and Inspection Techniques
- Module 5: Cathodic Protection Systems - Design and Operation
- Module 6: Chemical Treatment and Use of Inhibitors
- Module 7: Coatings, Linings, and Material Selection
- Module 8: Corrosion Control in Pipelines, Process Equipment, and Water Systems
- Module 9: Risk Assessment, Maintenance, and Integrity Management
- Module 10: Capstone Project - Developing a Corrosion Control Program

Certification

Upon successful completion, participants will receive the Certificate in Corrosion Control in Gas, Oil & Water Systems, acknowledging their technical expertise in preventing and managing corrosion in industrial environments.

This certification demonstrates your ability to implement corrosion prevention strategies that enhance asset longevity, safety, and operational reliability.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training

Interested in running this course for your team?

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