BLACKBIRD FOR TRAINING

Corrosion Control & Management

10 – 14 January 2027
Dubai (UAE)

UK Traininig
PARTNER



Corrosion Control & Management

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Introduction

Corrosion control & management is a critical discipline focused on protecting assets, maintaining operational reliability, and extending the service life of equipment and infrastructure. Corrosion, if left unmanaged, can lead to asset degradation, safety risks, unexpected failures, and increased operational costs. Effective corrosion management relies on understanding corrosion mechanisms, assessing risks, and applying structured prevention and control measures.

This course is designed for executives, team leaders, and professionals across different departments, as well as early- and mid-career employees who are involved in asset management, maintenance planning, quality oversight, or operational decision-making. It is suitable for individuals seeking a clear and practical understanding of how corrosion impacts assets and how it can be systematically controlled.

The course provides practical value by linking corrosion fundamentals with real operational practices. Participants gain the ability to recognize corrosion risks, apply suitable control methods, and support decisions that improve asset reliability and long-term performance.

Course Objectives

This course aims to build structured knowledge and practical awareness of corrosion control and management through the following objectives:

- Understand the basic principles and mechanisms of corrosion.
- Identify common types of corrosion affecting assets.
- Recognize factors that accelerate corrosion processes.
- Apply corrosion control and prevention techniques.
- Analyze typical corrosion-related failures.
- Understand the role of maintenance in corrosion management.
- Use performance indicators to monitor corrosion control effectiveness.
- Support informed technical and managerial decision-making.



Course Outlines

Day One: Fundamentals of Corrosion and Control Principles

- Definition of corrosion and its impact on assets.
- Basic scientific principles of corrosion.
- Difference between general and localized corrosion.
- Influence of operating environments on corrosion.
- Organizational roles in corrosion control.
- Review of simple applied examples.

Day Two: Types of Corrosion and Damage Mechanisms

- Uniform corrosion and localized corrosion.
- Chemical and electrochemical corrosion processes.
- Stress-related corrosion mechanisms.
- Corrosion in wet and dry environments.
- Analysis of recurring corrosion issues.
- Practical exercise on corrosion type identification.

Day Three: Corrosion Prevention and Protection Methods

- Protective coatings and surface treatments.
- Material selection to reduce corrosion risk.
- Design considerations for corrosion prevention.
- Electrochemical protection methods.
- Preventive maintenance strategies.
- Applied case study discussion.

Day Four: Inspection, Monitoring, and Data Management

- Importance of regular corrosion inspections.
- Common tools used for corrosion detection.
- Recording and analyzing corrosion data.
- Linking inspection results to maintenance planning.
- Role of reporting in decision support.
- Review of structured inspection records.



Day Five: Evaluation and Continuous Improvement

- Comprehensive review of course concepts.
- Evaluation of corrosion control programs.
- Identification of weaknesses and areas for improvement.
- Development of practical improvement plans.
- Review of evaluation results.
- Final applied activity.

Why Attend This Course: Wins & Losses!

- Clear and structured understanding of corrosion phenomena.
- Practical content applicable to real work environments.
- Reduction of asset degradation and failure risks.
- Improved asset reliability and service life.
- Stronger support for technical decision-making.
- Better coordination between maintenance and operations.
- Increased professional awareness of corrosion risks.
- Support for sustainable asset performance.

Conclusion

The Corrosion Control & Management course provides a practical and well-structured framework for understanding and managing one of the most significant threats to asset integrity. The content is designed to be clear, balanced, and suitable for professionals with moderate experience, without unnecessary complexity.

By focusing on corrosion mechanisms, prevention techniques, inspection practices, and continuous improvement, the course helps participants reduce corrosion-related risks and improve asset performance. It also supports the integration of technical knowledge with organizational objectives, contributing to safer operations, controlled costs, and more reliable assets over the medium and long term.

