MERCURY

Corrosion Engineering in Oil and Gas Training Course

08 - 12 Feb 2027
London (UK)

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

Corrosion Engineering in Oil and Gas Training Course

Ref.: 15512_310438 **Date:** 08 - 12 Feb 2027 **Location:** London (UK) **Fees:** 5900 **Euro**

Introduction:

This Corrosion Engineering in Oil and Gas training will give the delegates a complete theoretical and practical understanding of implementing asset integrity to safeguard assets, people, and the environment. It is designed for professionals in the oil and gas industry to understand corrosion and its management comprehensively. It is tailored to enrich knowledge and expertise in corrosion control, specifically targeting issues such as corrosion in oil and gas pipelines, the types of corrosion encountered in the industry, and strategies for corrosion prevention and mitigation.

Asset integrity management AIM focuses on safety, environmental protection, reliability, regulatory compliance, and data management. An effective AIM program provides assurance that a facility's equipment and assets are designed, fabricated, procured, installed, and maintained in a manner appropriate for their intended application throughout the life of the operation.

Control of corrosion in the oil and gas industry is critical to ensuring the longevity and reliability of industry operations. It will delve into the various types of corrosion problems in the oil and gas industry and the importance of implementing robust corrosion control measures in oil and gas pipelines. By integrating these components, participants will gain substantial knowledge and skills in corrosion control, qualifying them for certifications and fostering their growth as experts in corrosion engineering.

Targeted Groups:

- Integrity and Static Equipment Engineers/Managers.
- Inspection.
- Operations and Maintenance Professionals/Managers.
- Asset and Project Managers.
- Executives and Managers who are inspired for continual improvement.
- Excellence and maintainable success of their organizations.
- Team leaders and senior engineers working on Asset Integrity Management.
- System development, rollout, and implementation.

Course Objectives:

After this oil and gas corrosion engineering, control, and prevention course, attendees will be capable of:

- Explore the basic Assets of Integrity Management Modules. Clarify the organizational interfaces, duties, and responsibilities of the officers involved in AIMS's development, implementation, and rollout.
- Learn about major operators' AIMS achievements and compare asset integrity management strategies with best-in-class operators.
- To ensure effective AIMS, increase employee involvement, empowerment, and leadership while enhancing communications and cross-disciplinary teamwork.
- Recognize the various control methods and describe how successful mitigation can reduce risk exposure and be used to satisfy the life extension needs of aging facilities.

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Targeted Competencies:

After this oil and gas corrosion engineering, control, and prevention training, attendees competencies will be capable of:

- Metallurgy and engineering material properties.
- The cost of corrosion damage in industries.
- Comprehensive understanding of corrosion mechanisms in oil, gas, and water fields.
- Development of core corrosion control and mitigating programs.
- Advanced techniques for corrosion monitoring.

Course Content:

Unit 1: Asset Integrity Elements Overview:

- Integrity elements and their dependency.
- Importance of integrity elements.
- Definitions and Implementation.
- Asset Integrity Life Cycle.
- Concept selection and definition.
- Detailed engineering and design.
- Operation, modification, and maintenance.
- Acquisition and decommissioning.

Unit 2: Asset Integrity Barriers:

- Integrity barrier definition and introduction.
- Hard and soft barriers.
- Bow Tie models.
- Barrier threats and mitigation measures.
- Safety Critical Elements and Equipment.
- SCE and operational Integrity management.
- Safety critical element vs. safety critical equipment.
- Major accident hazards.
- Identifying SCE and performance standards.
- Verification, assurance, and ICP.

Unit 3: Asset Degradation and Damage:

- Asset Degradation and Damage.
- Definition and analysis.
- Damage and its impact.
- Bathtub curve.
- Time-independent vs. time-dependent failures.
- Key degradation and damage threats.
- Design concepts, identification, and mitigation measures.
- Operational Corrosion Management.
- Establish Operational Corrosion Management.
- Standards and Recommended Practices.
- Operational Requirements.

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Unit 4: Risk Based Inspection:

- Introduction and the history of RBI.
- Benefits and limitations.
- RBI methodology and implementation.
- Written schemes.
- Inspection scheduling.
- Pipeline Integrity Management.
- Pipeline integrity process and elements.
- Understand the pipeline threats and anomalies.
- Pipeline mitigation techniques and overview.
- Pipeline integrity methodology.

Unit 5: Key Performance Indicators:

- KPIs and their function.
- Lagging and leading KPIs.
- Establishing Approach.
- Integrity Strategy.
- Planning and Data Acquisition/CMMS Build.
- Risk Management.
- Asset Integrity Review.
- Review strategy and preparation.
- Implementing a review.
- Reporting and evaluation of results.

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Registration form on the :
Corrosion Engineering in Oil and Gas Training Course

code: 15512 **From:** 08 - 12 Feb 2027 **Venue:** London (UK) **Fees:** 5900 **Euro**

Complete & Mail or fax to Mercury Training Center at the address given below

Delegate Information

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

Company Name:
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Address:
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City / Country:
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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):
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Position:
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Payment Method

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