



## دورة تدريبية متقدمة في الوقاية من التآكل: خاصة بقطاع النفط والغاز



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### Course Overview:

Welcome to Corrosion Control Mastery, a groundbreaking course designed to equip professionals with in-depth knowledge and skills in corrosion control for the oil, gas, and water sectors. Unlike other training courses, this program delves deeply into the science of corrosion and its economic impact, offering practical solutions that can save your organization millions. This is an all-in-one package that combines corrosion control training courses, oil and gas accounting training courses, and oil and gas safety training certification courses to offer a comprehensive understanding. Don't miss this opportunity to elevate your proficiency and add significant value to your career and organization.

### Target Audience:

- Petroleum Engineers
- Welding Engineers
- Process Engineers
- Inspectors and Inspection Supervisors
- Equipment Engineers
- Maintenance Engineers and Planners
- Design Engineers
- Service Company Representatives

### Targeted Organizational Departments:

- Particularly Petroleum, Mechanical, and Process Engineers who directly engage Engineering Departments with issues of corrosion control.
- To understand and implement preventive measures against corrosion. Maintenance and Reliability Teams
- For staff involved in checking material integrity and ensuring Quality Control and Inspection Units compliance with corrosion control standards.
- For teams focused on creating more corrosion-resistant materials or methods. Research and Development
- For selecting corrosion-resistant materials and services. Procurement and Supply Chain Teams

## Targeted Industries:

- : Given the high costs of corrosion in this sector, knowledge is critical for asset longevity and operational efficiency. **Oil and Gas Industry**
- : Control of corrosion can significantly extend the life of pipes and treatment units. **Water Treatment Plants**
- : Corrosion-resistant materials and knowledge can prevent leaks and accidents. **Chemical Processing Industry**
- : Ship and offshore rig operators would gain substantially from improved corrosion control. **Maritime Industry**
- : For those working with metals and other materials that need long-lasting corrosion resistance. **Construction Industry**

## Course Offerings:

By the end of the course, participants will be skilled in:

- Understanding and applying corrosion theories and mechanisms
- Employing monitoring and inspection methods for corrosion control in oil and water fields
- Implementing practical methods for controlling corrosion

## Training Methodology:

The course utilizes a blended learning approach that combines traditional lectures with interactive sessions, case studies, and group work. Feedback sessions and real-world examples are integrated to ensure the most effective learning experience. The course incorporates advanced oil and gas online training courses materials for a well rounded understanding.

## Course Toolbox:

- Workbook on Corrosion Control Engineering
- Software for corrosion rate measurement
- Checklists for routine inspections
- Templates for corrosion management plans
- Access to a library of oil and gas industry training courses



## Course Agenda:

### Day 1: Fundamentals of Corrosion Control

- Introduction to Corrosion Engineering Topic 1: •
- Importance of Corrosion Control in Oil and Gas Topic 2: •
- Materials of Construction: Metals and Alloys Topic 3: •
- Economic Impacts of Corrosion Topic 4: •
- Recap of key points and interactive Q&A on economic implications of corrosion control. Reflection & Review: •

### Day 2: Types of Corrosion I

- Galvanic Corrosion: Causes and Control Topic 5: •
- Localized/Pitting Corrosion: Identification and Management Topic 6: •
- Soil Corrosion: Prevention Strategies Topic 7: •
- Corrosion Exposed to Stray Currents Topic 8: •
- Hands-on practice with corrosion simulations and identification techniques. Reflection & Review: •

### Day 3: Types of Corrosion II

- Crevice Corrosion: Causes and Control Topic 9: •
- Microbiologically Induced Corrosion MIC: Treatment and Management Topic 10: •
- Wet Hydrogen Sulfide H<sub>2</sub>S Corrosion Mechanisms Topic 11: •
- Corrosion Under Insulation CUI: Identification and Mitigation Topic 12: •
- Case studies review and group discussions on mitigating corrosion types discussed. Reflection & Review: •

### Day 4: Corrosion Control Methods I

- Active Cathodic Protection: Sacrificial Anode Technique Topic 13: •
- Passive Protection: Coating Types and Applications Topic 14: •
- Cathodic Protection: Impressed Current Methodology Topic 15: •
- Chemical Inhibitors: Types and Applications Topic 16: •
- Participant presentations on designing a corrosion control program using the methods learned. Reflection & Review: •

## Day 5: Corrosion Control Methods II & Monitoring

- Corrosion Monitoring: Thickness Measurements using Ultrasonic Testing Topic 17: •
- Risk-Based Inspection RBI in Corrosion Control Topic 18: •
- Corrosion Coupons: Applications and Analysis Topic 19: •
- Intelligent Pigs: Advanced Monitoring Techniques Topic 20: •
- Final course wrap-up, Q&A, and feedback session on corrosion monitoring and future Reflection & Review: • trends.

### How This Course is Different:

Corrosion Control Mastery stands apart due to its comprehensive coverage, combining both theory and practical applications. Unlike other oil and gas industry training courses, we offer a holistic approach to corrosion control, covering oil and gas safety training certification courses and oil and gas accounting training courses as well.



## فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السيبراني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



## فئات الدورات التدريبية



دورات معتمدة بشهادة CPD



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة  
الهائية



دورات مكتب إدارة المشاريع وإدارة المشاريع  
الرشيقية



دورات معتمدة من قبل هيئات دولية

## مدن التدريب



اسطنبول - تركيا



أمستردام - هولندا



أنقرة - تركيا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلاند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

## مدن التدريب



جاكرتا - جمهورية اندونيسيا



تبليسي - جورجيا



بوكيت - تايلاند



برشلونة - اسبانيا



روما - ايطاليا



دبي - الامارات العربية المتحدة



جوهانسبرغ - جنوب افريقيا



جنيف - سويسرا



شهر الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة  
الامريكية



زنبار - تنزانيا



طوكيو - اليابان



طشقند - اوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة  
الامريكية

## مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترنو - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



**AGILE LEADERS**  
Training Center

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