

# Corrosion Control in Ammonia/Urea Manufacturing

## Training Course

OGI-1278 · 5 days · 15 CPD hours · English

### Overview

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Corrosion Control in Ammonia/Urea Manufacturing is a specialised industrial training course from [Institute For Oil & Gas Training](#) that equips professionals with the technical knowledge and operational skills required to manage ammonia plant corrosion, urea plant corrosion and degradation across critical process equipment. Designed for organisations involved in oil and gas processing, gas-based fertiliser production, petrochemical operations and industrial chemical manufacturing, the course focuses on identifying corrosion mechanisms, assessing equipment condition, implementing corrosion prevention measures and maintaining the integrity of assets operating under demanding process conditions.

Ammonia and urea manufacturing facilities depend on complex process systems that handle high temperatures, elevated pressures, reactive chemicals and corrosive process streams. Equipment such as synthesis vessels, heat exchangers, condensers, reactors, piping networks, compressors and storage systems must maintain reliable performance throughout their operating life. Corrosion damage in these systems creates operational challenges, including unplanned shutdowns, product contamination, equipment failure, production losses and increased maintenance expenditure. Effective corrosion management therefore remains an essential element of asset integrity and operational reliability.

Ammonia plant corrosion presents distinct challenges because of the interaction between process chemistry, operating conditions, material selection and equipment design. Depending on the process configuration, damage mechanisms include hydrogen-related degradation, high-temperature corrosion, stress corrosion cracking, erosion-corrosion and deterioration associated with unsuitable operating conditions. Urea plant corrosion introduces additional concerns associated with ammonium carbamate, process condensates and other aggressive chemical environments. The performance of materials in synthesis equipment, stripping systems, condensers and associated piping depends on appropriate material selection, process control and effective maintenance practices.

The Corrosion Control in Ammonia/Urea Manufacturing Training Course addresses the need for coordinated corrosion management across engineering, operations, inspection and maintenance functions. Participants examine how process chemistry influences material degradation, how corrosion mechanisms develop under specific operating conditions and how engineering teams identify the most appropriate inspection and mitigation measures. The programme connects corrosion theory with practical industrial decisions, helping personnel recognise early warning signs, evaluate equipment risks and prioritise corrective action.

A central focus of the course is the relationship between corrosion prevention and long-term equipment reliability. Organisations require more than periodic inspections to control corrosion effectively. They need systematic approaches that integrate operating data, inspection findings, materials engineering, process monitoring, maintenance planning and risk assessment. Participants explore how these activities support informed decisions regarding equipment suitability, inspection intervals, repair methods and replacement priorities.

The course also addresses the importance of understanding the limitations of corrosion control methods. Protective materials, corrosion inhibitors, process chemistry adjustments, operating controls and mechanical repairs each serve different purposes. Their effectiveness depends on the corrosion mechanism, process conditions, equipment configuration and compatibility with the manufacturing process. Participants develop a structured approach to selecting control measures based on the identified degradation mechanism rather than relying on generic solutions.

For oil and gas organisations supplying feedstock to ammonia plants, operating integrated fertiliser facilities or managing chemical processing assets, corrosion control directly supports production continuity and responsible asset management. The programme helps personnel connect equipment condition with process performance, maintenance costs and operational risk. It also encourages stronger communication between engineering, inspection, operations and maintenance teams, ensuring that corrosion-related decisions reflect the wider requirements of the facility.

Delivered by Institute For Oil & Gas Training, this course provides a practical framework for managing corrosion in ammonia and urea manufacturing environments. Participants gain a clearer understanding of degradation mechanisms, inspection strategies, materials performance and corrosion mitigation techniques. The resulting capability supports more consistent technical decisions, improved maintenance prioritisation and stronger control of equipment integrity across critical process systems.

## Objectives

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- Explain the principal corrosion mechanisms affecting ammonia and urea manufacturing equipment.
- Identify operating conditions that increase the risk of process equipment corrosion.
- Distinguish between general corrosion, pitting, erosion-corrosion, stress corrosion cracking and hydrogen-related degradation.
- Explain how ammonia and urea process chemistry influences material performance and equipment reliability.
- Recognise corrosion risks associated with ammonium carbamate environments and other aggressive process streams.
- Assess the importance of material selection and material compatibility in corrosive operating environments.
- Interpret inspection findings and identify indicators of active corrosion or progressive equipment deterioration.
- Evaluate the role of thickness monitoring, visual inspection and non-destructive testing in corrosion management.
- Apply structured methods to prioritise corrosion findings according to equipment criticality and potential consequences.
- Identify appropriate corrosion prevention and mitigation measures for different equipment and process conditions.

- Explain how operating discipline, process monitoring and maintenance practices influence corrosion rates.
- Support the development of corrosion monitoring plans and equipment inspection strategies.
- Evaluate repair, replacement and continued-operation considerations using relevant engineering requirements.
- Improve coordination between operations, inspection, materials engineering and maintenance teams.
- Contribute to more effective corrosion management procedures and long-term asset integrity planning.

## **Training methodology**

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The Corrosion Control in Ammonia/Urea Manufacturing Training Course delivered by Institute For Oil & Gas Training follows an industry-focused approach that combines technical instruction, practical exercises, equipment-based scenarios and structured problem-solving. The training reflects the operating requirements of ammonia and urea manufacturing facilities, where corrosion management decisions depend on process chemistry, material compatibility, equipment criticality, production demands and safe operating practices.

### **Technical Presentations and Facilitated Discussions**

Participants explore the fundamental principles of corrosion science and their application to ammonia and urea manufacturing. Discussions focus on the relationship between electrochemical corrosion, material degradation, process chemistry and operating conditions. Practical examples involving piping systems, pressure equipment, heat exchangers and chemical processing units help participants connect technical principles with equipment integrity challenges.

### **Industrial Case Studies**

Industrial case studies examine equipment deterioration, inspection findings, maintenance interventions and the operational consequences of corrosion. Participants review each scenario, identify potential degradation mechanisms and determine what additional evidence is required before recommending corrective action. This approach reinforces the importance of evidence-based assessment and accurate identification of corrosion damage.

### **Equipment and Process Scenarios**

Practical scenarios focus on corrosion affecting ammonia synthesis systems, urea manufacturing equipment, condensers, process piping, heat exchangers and associated utility systems. Participants assess how temperature, pressure, chemical composition, material condition and process deviations influence equipment integrity. These exercises improve their understanding of the relationship between local operating conditions and corrosion behaviour.

### **Inspection and Condition Assessment Exercises**

Participants examine representative inspection reports, thickness measurements, visual observations and non-destructive testing findings. They practise interpreting inspection evidence, identifying equipment requiring further

investigation and distinguishing between immediate repair requirements and longer-term monitoring needs. These exercises demonstrate how inspection information supports risk-based maintenance planning and equipment integrity assessments.

### **Group Problem-Solving Activities**

Group exercises encourage participants to examine corrosion problems from different professional perspectives. Operations personnel consider process stability, inspection specialists evaluate evidence of degradation, maintenance teams assess repair options and engineers review material suitability. This collaborative approach demonstrates the value of multidisciplinary decision-making in developing consistent corrosion management strategies.

### **Risk Assessment and Prioritisation Exercises**

Participants evaluate equipment scenarios to determine the significance of identified corrosion findings. They consider the likelihood of deterioration, potential failure consequences, operating conditions and the effectiveness of existing safeguards. These exercises strengthen their ability to prioritise inspection activities, recommend corrective measures and allocate maintenance resources according to equipment risk.

### **Action Planning and Workplace Application**

The programme concludes with practical activities focused on applying the knowledge gained within participants' organisations. Attendees identify opportunities to strengthen corrosion monitoring, improve inspection documentation, refine maintenance planning and enhance communication between technical departments. Recommended actions are aligned with established site procedures, engineering requirements and available resources.

### **Practical Application of Corrosion Management Principles**

The training methodology connects corrosion science with operational decision-making through technical discussions, case studies and equipment-specific scenarios. Participants develop a systematic approach to investigating corrosion problems, evaluating equipment condition and selecting appropriate mitigation measures. This practical focus strengthens their contribution to corrosion prevention, maintenance planning and asset integrity management.

## **Organisational impact**

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Effective corrosion management is essential for maintaining the reliability, safety and commercial performance of ammonia and urea manufacturing facilities. The Corrosion Control in Ammonia/Urea Manufacturing Training Course from Institute For Oil & Gas Training helps organisations improve their approach to identifying equipment deterioration, assessing corrosion risks and implementing appropriate control measures.

### **Improved Equipment Reliability**

Corrosion-related equipment failures disrupt production and increase maintenance demands. By developing a stronger understanding of degradation mechanisms, personnel can identify vulnerable equipment, investigate abnormal operating conditions and recommend corrective measures before damage becomes more severe. This supports the reliable operation of critical piping systems, pressure vessels, heat exchangers and other process

equipment.

### **Reduced Unplanned Maintenance and Production Disruption**

Unexpected equipment deterioration often leads to emergency repairs, production restrictions and unplanned shutdowns. The course helps participants assess corrosion concerns by considering inspection findings, process conditions and maintenance history. This knowledge supports better maintenance planning and enables organisations to prioritise interventions according to equipment condition and operational importance.

### **More Effective Maintenance Expenditure**

Corrosion management requires careful planning of inspection, repair and replacement activities. A structured assessment approach helps technical teams distinguish between equipment requiring immediate attention and assets suitable for planned monitoring. Organisations gain a stronger basis for allocating maintenance resources, coordinating work schedules and addressing significant degradation risks.

### **Stronger Process Safety Management**

Corrosion can weaken containment boundaries, pressure-retaining components and process piping. Improving personnel competence in corrosion identification and assessment helps organisations recognise conditions that require further investigation or escalation. The course reinforces the importance of engineering reviews, established inspection procedures and appropriate authorisation when making decisions that affect equipment integrity.

### **Better Materials and Engineering Decisions**

Material compatibility directly affects the performance of equipment exposed to ammonia, urea, carbamate solutions and associated process streams. Participants develop a clearer understanding of how operating environments influence material suitability. This knowledge supports informed engineering decisions concerning material selection, equipment modifications, repair methods and replacement specifications.

### **Improved Inspection Effectiveness**

Inspection programmes provide valuable information when findings are interpreted correctly and translated into appropriate actions. The course strengthens participants' ability to connect observed damage with potential corrosion mechanisms, identify limitations in available evidence and determine when further examination is necessary. Organisations benefit from clearer inspection recommendations and more effective follow-up activities.

### **More Consistent Corrosion Prevention**

Reactive maintenance alone does not provide a comprehensive approach to corrosion control. The course examines the contribution of process monitoring, operating controls, suitable materials, inspection planning and preventive maintenance to equipment integrity. Integrating these activities helps organisations manage deterioration systematically and maintain equipment within established operating limits.

### **Enhanced Cross-Functional Collaboration**

Effective corrosion management requires cooperation between operations, process engineering, materials specialists, inspection teams and maintenance personnel. A shared technical understanding improves discussions about

degradation mechanisms, repair options and operational restrictions. The programme supports clearer responsibilities, consistent reporting and better coordination during corrosion investigations.

### **Improved Technical Documentation and Decision-Making**

Accurate records of corrosion findings, equipment condition, process deviations and corrective actions provide an important basis for future engineering assessments. Participants learn the importance of documenting evidence, explaining recommendations and maintaining traceability between identified risks and completed interventions. These practices improve maintenance history reviews and support future inspection planning.

### **Stronger Operational Governance**

Recognised engineering standards and inspection practices provide a structured foundation for corrosion management. The course introduces relevant standards in their appropriate technical contexts, helping personnel understand their application to inspection, materials selection and equipment integrity decisions. Organisations remain responsible for identifying and applying the specific legal, technical and site requirements relevant to their facilities.

Overall, the programme supports stronger technical assessments, more disciplined maintenance prioritisation and improved coordination of corrosion-related activities. The actual benefits achieved depend on the application of the training, the quality of site information and the implementation of appropriate engineering controls.

### **Personal impact**

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The Corrosion Control in Ammonia/Urea Manufacturing Training Course develops the practical knowledge and professional capabilities required to address corrosion challenges in ammonia and urea production environments. Participants learn to assess equipment condition systematically, communicate technical findings clearly and contribute to decisions that influence plant reliability and asset integrity.

### **Deeper Understanding of Corrosion Mechanisms**

Participants develop the ability to recognise different forms of corrosion and understand the conditions that contribute to material degradation. They learn to distinguish between general corrosion, localised attack, cracking-related damage and other degradation mechanisms affecting process equipment. This knowledge improves their ability to investigate corrosion concerns and identify appropriate areas for further assessment.

### **Greater Confidence in Technical Assessments**

The course provides a structured approach to reviewing operating conditions, inspection findings and equipment history. Participants become better equipped to identify relevant technical questions, recognise gaps in available information and support recommendations with appropriate evidence. This improves their contribution to corrosion investigations and equipment integrity reviews.

### **Improved Equipment Integrity Awareness**

Participants gain a stronger understanding of the relationship between corrosion, containment integrity and operational reliability. They develop the ability to recognise equipment conditions that require additional inspection,

engineering evaluation or escalation through established site procedures. This awareness supports more responsible decision-making in industrial environments.

### **Enhanced Inspection and Maintenance Planning Skills**

The programme explains how corrosion findings influence inspection priorities, repair decisions and maintenance schedules. Participants learn to contribute more effectively to discussions with inspectors, maintenance supervisors, reliability engineers and equipment specialists. These skills support coordinated maintenance activities and better management of corrosion-related work.

### **Stronger Materials Selection Knowledge**

Participants improve their understanding of material compatibility and the influence of process chemistry on equipment performance. This knowledge helps them contribute to materials reviews, equipment specifications and corrosion mitigation discussions. They also develop a clearer appreciation of the relationship between service conditions, material properties and long-term equipment reliability.

### **Improved Problem-Solving Capability**

Through case studies and practical scenarios, participants practise investigating possible corrosion mechanisms, reviewing supporting evidence and comparing mitigation options. This structured approach strengthens their ability to address technical problems methodically and avoid recommendations based solely on assumptions. It also improves their ability to identify when specialist assessment or additional inspection is required.

### **Better Communication Across Technical Teams**

The course establishes a shared technical foundation for discussing corrosion concerns with colleagues across different disciplines. Participants improve their ability to explain equipment risks, document inspection observations and communicate the technical reasoning behind recommended actions. These capabilities support more effective collaboration between operations, engineering, inspection and maintenance functions.

### **Greater Contribution to Organisational Performance**

Participants gain practical knowledge that supports equipment reliability, maintenance efficiency and asset integrity management. They become better prepared to contribute to corrosion prevention initiatives, technical reviews and maintenance improvement activities. The programme also provides a foundation for continued professional development in corrosion control, materials engineering and industrial equipment integrity.

### **Who should attend**

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- Corrosion Engineers: Strengthen the assessment of corrosion mechanisms and develop more effective prevention and mitigation strategies.
- Materials Engineers: Improve understanding of material compatibility, degradation mechanisms and material performance in aggressive process environments.

- Inspection Engineers: Enhance the interpretation of inspection findings and support the selection of appropriate follow-up assessments.
- Plant Integrity Engineers: Integrate corrosion findings into equipment integrity reviews, maintenance priorities and longer-term asset management plans.
- Reliability Engineers: Connect corrosion-related failure mechanisms with equipment reliability assessments and preventive maintenance strategies.
- Process Engineers: Understand how process chemistry, temperature, pressure and operating conditions influence equipment degradation.
- Chemical Engineers: Apply process knowledge to the assessment of corrosion risks in ammonia and urea manufacturing systems.
- Production and Operations Engineers: Recognise corrosion indicators associated with abnormal operating conditions and support appropriate operational responses.
- Plant and Shift Supervisors: Improve coordination of corrosion reporting, operational monitoring and maintenance escalation.
- Maintenance Engineers: Strengthen decisions concerning corrosion-related repairs, replacement planning and equipment maintenance requirements.
- Maintenance Supervisors and Planners: Improve the prioritisation and coordination of corrosion-related work orders and planned interventions.
- Non-Destructive Testing Personnel: Develop a stronger understanding of how examination findings relate to corrosion mechanisms and equipment integrity.
- Quality Assurance and Quality Control Professionals: Understand the importance of material verification, repair quality and documented engineering requirements.
- Asset Management Professionals: Incorporate corrosion-related risks into equipment lifecycle planning and asset performance reviews.
- Technical Managers and Engineering Managers: Improve oversight of corrosion management strategies, inspection resources and cross-functional technical decisions.

- Fertiliser Plant Personnel: Build specialist knowledge relevant to the integrity challenges of ammonia synthesis, urea synthesis and associated processing systems.
- Oil and Gas Processing Professionals: Develop transferable corrosion management knowledge applicable to gas processing and integrated chemical production facilities.
- Project and Commissioning Engineers: Strengthen awareness of corrosion considerations during equipment specification, installation, commissioning and operational handover.
- Technical Consultants and Engineering Contractors: Improve their ability to evaluate corrosion-related issues and contribute to equipment integrity assignments.

## Course outline

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### Corrosion Fundamentals in Ammonia and Urea Facilities

This module establishes the technical foundation for understanding corrosion in ammonia and urea manufacturing environments. Participants examine the relationship between material properties, process chemistry, operating conditions and equipment degradation. The emphasis is on recognising the principal mechanisms that affect the reliability of industrial process systems.

The module also explores how corrosion develops across different equipment types and why a single control method is not appropriate for every damage mechanism. Participants examine the importance of distinguishing between general material loss, localised corrosion, cracking and other forms of deterioration when assessing equipment condition.

### Corrosion Mechanisms in Ammonia Manufacturing

This module focuses on ammonia plant corrosion and the degradation mechanisms associated with ammonia synthesis, gas processing and related equipment. Participants examine the influence of temperature, pressure, hydrogen exposure, process gas composition and material characteristics on equipment performance.

The module considers the importance of evaluating equipment operating conditions and material suitability when investigating corrosion concerns. Particular attention is given to hydrogen-related damage, high-temperature degradation, stress corrosion cracking and other mechanisms relevant to selected ammonia production processes. The applicability of each mechanism depends on the plant design, materials and actual operating environment.

### Corrosion Management in Urea Manufacturing

This module examines urea plant corrosion, with emphasis on equipment exposed to ammonium carbamate and other chemically aggressive process environments. Participants explore the corrosion challenges associated with synthesis equipment, strippers, condensers, process piping and associated systems.

The module considers how process chemistry, temperature, concentration, material condition and operating practices affect corrosion behaviour. Participants also examine the importance of selecting suitable materials, monitoring

operating conditions and maintaining effective corrosion control practices throughout the equipment lifecycle.

### **Corrosion Inspection, Monitoring and Risk Assessment**

This module examines the techniques used to identify, monitor and assess process equipment corrosion. Participants review the role of visual inspection, thickness measurements, non-destructive testing and operating data in determining equipment condition.

The module also addresses the interpretation of inspection findings and the importance of relating evidence to the likely damage mechanism. Participants examine how equipment criticality, potential failure consequences, degradation history and inspection confidence contribute to maintenance prioritisation and decisions concerning further examination.

### **Corrosion Prevention, Mitigation and Asset Integrity**

This module brings together the principles of corrosion identification, materials performance, inspection and operational control. Participants examine how organisations develop coordinated corrosion management strategies for ammonia and urea manufacturing facilities, including the selection of mitigation measures and the integration of corrosion findings into maintenance programmes.

The module also considers the importance of documenting decisions, reviewing recurring damage and evaluating the effectiveness of corrective actions. Participants develop a practical approach to improving corrosion prevention through engineering controls, suitable operating practices, planned inspection and cooperation between technical departments.

### **Scheduled dates**

| Dates            | Venue                           | Format    | Fee    |
|------------------|---------------------------------|-----------|--------|
| 26 - 30 Oct 2026 | Abu Dhabi, United Arab Emirates | In person | £3,600 |
| 26 - 30 Oct 2026 | Abuja, Nigeria                  | In person | £3,600 |
| 26 - 30 Oct 2026 | Accra, Ghana                    | In person | £3,600 |
| 26 - 30 Oct 2026 | Addis Ababa, Ethiopia           | In person | £3,600 |
| 26 - 30 Oct 2026 | Al Ain, United Arab Emirates    | In person | £3,600 |
| 26 - 30 Oct 2026 | Al Khobar, Saudi Arabia         | In person | £3,600 |
| 26 - 30 Oct 2026 | Alberta, Canada                 | In person | £3,600 |
| 26 - 30 Oct 2026 | AlUla, Saudi Arabia             | In person | £3,600 |
| 26 - 30 Oct 2026 | Amman, Jordan                   | In person | £3,600 |
| 26 - 30 Oct 2026 | Amsterdam, Netherlands          | In person | £3,600 |
| 26 - 30 Oct 2026 | Athens, Greece                  | In person | £3,600 |

| Dates            | Venue                        | Format    | Fee    |
|------------------|------------------------------|-----------|--------|
| 26 - 30 Oct 2026 | Baku, Azerbaijan             | In person | £3,600 |
| 26 - 30 Oct 2026 | Barcelona, Spain             | In person | £3,600 |
| 26 - 30 Oct 2026 | Berlin, Germany              | In person | £3,600 |
| 26 - 30 Oct 2026 | Boston, United States        | In person | £3,600 |
| 26 - 30 Oct 2026 | Brussels, Belgium            | In person | £3,600 |
| 26 - 30 Oct 2026 | Budapest, Hungary            | In person | £3,600 |
| 26 - 30 Oct 2026 | Cairo, Egypt                 | In person | £3,600 |
| 26 - 30 Oct 2026 | Cape Town, South Africa      | In person | £3,600 |
| 26 - 30 Oct 2026 | Casablanca, Morocco          | In person | £3,600 |
| 26 - 30 Oct 2026 | Dammam, Saudi Arabia         | In person | £3,600 |
| 26 - 30 Oct 2026 | Dhahran, Saudi Arabia        | In person | £3,600 |
| 26 - 30 Oct 2026 | Doha, Qatar                  | In person | £3,600 |
| 26 - 30 Oct 2026 | Dubai, United Arab Emirates  | In person | £3,600 |
| 26 - 30 Oct 2026 | Edinburgh, United Kingdom    | In person | £3,600 |
| 26 - 30 Oct 2026 | Edmonton, Canada             | In person | £3,600 |
| 26 - 30 Oct 2026 | Frankfurt, Germany           | In person | £3,600 |
| 26 - 30 Oct 2026 | Geneva, Switzerland          | In person | £3,600 |
| 26 - 30 Oct 2026 | Houston, United States       | In person | £3,600 |
| 26 - 30 Oct 2026 | Istanbul, Turkey             | In person | £3,600 |
| 26 - 30 Oct 2026 | Jakarta, Indonesia           | In person | £3,600 |
| 26 - 30 Oct 2026 | Jeddah, Saudi Arabia         | In person | £3,600 |
| 26 - 30 Oct 2026 | Jubail, Saudi Arabia         | In person | £3,600 |
| 26 - 30 Oct 2026 | Khamis Mushait, Saudi Arabia | In person | £3,600 |
| 26 - 30 Oct 2026 | Kigali, Rwanda               | In person | £3,600 |
| 26 - 30 Oct 2026 | Kuala Lumpur, Malaysia       | In person | £3,600 |
| 26 - 30 Oct 2026 | Lisbon, Portugal             | In person | £3,600 |

| Dates            | Venue                            | Format    | Fee    |
|------------------|----------------------------------|-----------|--------|
| 26 - 30 Oct 2026 | Liverpool, United Kingdom        | In person | £3,600 |
| 26 - 30 Oct 2026 | London, United Kingdom           | In person | £3,600 |
| 26 - 30 Oct 2026 | Los Angeles, United States       | In person | £3,600 |
| 26 - 30 Oct 2026 | Luanda, Angola                   | In person | £3,600 |
| 26 - 30 Oct 2026 | Madrid, Spain                    | In person | £3,600 |
| 26 - 30 Oct 2026 | Manama, Bahrain                  | In person | £3,600 |
| 26 - 30 Oct 2026 | Marbella, Spain                  | In person | £3,600 |
| 26 - 30 Oct 2026 | Marrakech, Morocco               | In person | £3,600 |
| 26 - 30 Oct 2026 | Miami, United States             | In person | £3,600 |
| 26 - 30 Oct 2026 | Milan, Italy                     | In person | £3,600 |
| 26 - 30 Oct 2026 | Munich, Germany                  | In person | £3,600 |
| 26 - 30 Oct 2026 | Muscat, Oman                     | In person | £3,600 |
| 26 - 30 Oct 2026 | Nairobi, Kenya                   | In person | £3,600 |
| 26 - 30 Oct 2026 | New York, United States          | In person | £3,600 |
| 26 - 30 Oct 2026 | Nice, France                     | In person | £3,600 |
| 26 - 30 Oct 2026 | Nouakchott, Mauritania           | In person | £3,600 |
| 26 - 30 Oct 2026 | Oslo, Norway                     | In person | £3,600 |
| 26 - 30 Oct 2026 | Paris, France                    | In person | £3,600 |
| 26 - 30 Oct 2026 | Port Louis, Mauritius            | In person | £3,600 |
| 26 - 30 Oct 2026 | Prague, Czech Republic           | In person | £3,600 |
| 26 - 30 Oct 2026 | Pretoria, South Africa           | In person | £3,600 |
| 26 - 30 Oct 2026 | Riyadh, Saudi Arabia             | In person | £3,600 |
| 26 - 30 Oct 2026 | Rome, Italy                      | In person | £3,600 |
| 26 - 30 Oct 2026 | Sarajevo, Bosnia and Herzegovina | In person | £3,600 |
| 26 - 30 Oct 2026 | Sharm El Sheikh, Egypt           | In person | £3,600 |
| 26 - 30 Oct 2026 | Singapore                        | In person | £3,600 |

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| 26 - 30 Oct 2026 | Stockholm, Sweden               | In person | £3,600 |
| 26 - 30 Oct 2026 | Tokyo, Japan                    | In person | £3,600 |
| 26 - 30 Oct 2026 | Toronto, Canada                 | In person | £3,600 |
| 26 - 30 Oct 2026 | Tromso, Norway                  | In person | £3,600 |
| 26 - 30 Oct 2026 | Vienna, Austria                 | In person | £3,600 |
| 26 - 30 Oct 2026 | Zagreb, Croatia                 | In person | £3,600 |
| 26 - 30 Oct 2026 | Zurich, Switzerland             | In person | £3,600 |
| 26 - 30 Oct 2026 | Online, Virtual                 | Online    | £3,600 |
| 22 - 26 Feb 2027 | Abu Dhabi, United Arab Emirates | In person | £3,600 |
| 22 - 26 Feb 2027 | Abuja, Nigeria                  | In person | £3,600 |
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| 22 - 26 Feb 2027 | AlUla, Saudi Arabia             | In person | £3,600 |
| 22 - 26 Feb 2027 | Amman, Jordan                   | In person | £3,600 |
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| 21 - 25 Jun 2027 | Al Ain, United Arab Emirates    | In person | £3,600 |
| 21 - 25 Jun 2027 | Al Khobar, Saudi Arabia         | In person | £3,600 |
| 21 - 25 Jun 2027 | Alberta, Canada                 | In person | £3,600 |
| 21 - 25 Jun 2027 | AlUla, Saudi Arabia             | In person | £3,600 |
| 21 - 25 Jun 2027 | Amman, Jordan                   | In person | £3,600 |
| 21 - 25 Jun 2027 | Amsterdam, Netherlands          | In person | £3,600 |
| 21 - 25 Jun 2027 | Athens, Greece                  | In person | £3,600 |
| 21 - 25 Jun 2027 | Baku, Azerbaijan                | In person | £3,600 |
| 21 - 25 Jun 2027 | Barcelona, Spain                | In person | £3,600 |
| 21 - 25 Jun 2027 | Berlin, Germany                 | In person | £3,600 |
| 21 - 25 Jun 2027 | Boston, United States           | In person | £3,600 |
| 21 - 25 Jun 2027 | Brussels, Belgium               | In person | £3,600 |
| 21 - 25 Jun 2027 | Budapest, Hungary               | In person | £3,600 |
| 21 - 25 Jun 2027 | Cairo, Egypt                    | In person | £3,600 |
| 21 - 25 Jun 2027 | Cape Town, South Africa         | In person | £3,600 |
| 21 - 25 Jun 2027 | Casablanca, Morocco             | In person | £3,600 |
| 21 - 25 Jun 2027 | Dammam, Saudi Arabia            | In person | £3,600 |
| 21 - 25 Jun 2027 | Dhahran, Saudi Arabia           | In person | £3,600 |
| 21 - 25 Jun 2027 | Doha, Qatar                     | In person | £3,600 |
| 21 - 25 Jun 2027 | Dubai, United Arab Emirates     | In person | £3,600 |
| 21 - 25 Jun 2027 | Edinburgh, United Kingdom       | In person | £3,600 |

| Dates            | Venue                        | Format    | Fee    |
|------------------|------------------------------|-----------|--------|
| 21 - 25 Jun 2027 | Edmonton, Canada             | In person | £3,600 |
| 21 - 25 Jun 2027 | Frankfurt, Germany           | In person | £3,600 |
| 21 - 25 Jun 2027 | Geneva, Switzerland          | In person | £3,600 |
| 21 - 25 Jun 2027 | Houston, United States       | In person | £3,600 |
| 21 - 25 Jun 2027 | Istanbul, Turkey             | In person | £3,600 |
| 21 - 25 Jun 2027 | Jakarta, Indonesia           | In person | £3,600 |
| 21 - 25 Jun 2027 | Jeddah, Saudi Arabia         | In person | £3,600 |
| 21 - 25 Jun 2027 | Jubail, Saudi Arabia         | In person | £3,600 |
| 21 - 25 Jun 2027 | Khamis Mushait, Saudi Arabia | In person | £3,600 |
| 21 - 25 Jun 2027 | Kigali, Rwanda               | In person | £3,600 |
| 21 - 25 Jun 2027 | Kuala Lumpur, Malaysia       | In person | £3,600 |
| 21 - 25 Jun 2027 | Lisbon, Portugal             | In person | £3,600 |
| 21 - 25 Jun 2027 | Liverpool, United Kingdom    | In person | £3,600 |
| 21 - 25 Jun 2027 | London, United Kingdom       | In person | £3,600 |
| 21 - 25 Jun 2027 | Los Angeles, United States   | In person | £3,600 |
| 21 - 25 Jun 2027 | Luanda, Angola               | In person | £3,600 |
| 21 - 25 Jun 2027 | Madrid, Spain                | In person | £3,600 |
| 21 - 25 Jun 2027 | Manama, Bahrain              | In person | £3,600 |
| 21 - 25 Jun 2027 | Marbella, Spain              | In person | £3,600 |
| 21 - 25 Jun 2027 | Marrakech, Morocco           | In person | £3,600 |
| 21 - 25 Jun 2027 | Miami, United States         | In person | £3,600 |
| 21 - 25 Jun 2027 | Milan, Italy                 | In person | £3,600 |
| 21 - 25 Jun 2027 | Munich, Germany              | In person | £3,600 |
| 21 - 25 Jun 2027 | Muscat, Oman                 | In person | £3,600 |
| 21 - 25 Jun 2027 | Nairobi, Kenya               | In person | £3,600 |
| 21 - 25 Jun 2027 | New York, United States      | In person | £3,600 |

| Dates            | Venue                            | Format    | Fee    |
|------------------|----------------------------------|-----------|--------|
| 21 - 25 Jun 2027 | Nice, France                     | In person | £3,600 |
| 21 - 25 Jun 2027 | Nouakchott, Mauritania           | In person | £3,600 |
| 21 - 25 Jun 2027 | Oslo, Norway                     | In person | £3,600 |
| 21 - 25 Jun 2027 | Paris, France                    | In person | £3,600 |
| 21 - 25 Jun 2027 | Port Louis, Mauritius            | In person | £3,600 |
| 21 - 25 Jun 2027 | Prague, Czech Republic           | In person | £3,600 |
| 21 - 25 Jun 2027 | Pretoria, South Africa           | In person | £3,600 |
| 21 - 25 Jun 2027 | Riyadh, Saudi Arabia             | In person | £3,600 |
| 21 - 25 Jun 2027 | Rome, Italy                      | In person | £3,600 |
| 21 - 25 Jun 2027 | Sarajevo, Bosnia and Herzegovina | In person | £3,600 |
| 21 - 25 Jun 2027 | Sharm El Sheikh, Egypt           | In person | £3,600 |
| 21 - 25 Jun 2027 | Singapore                        | In person | £3,600 |
| 21 - 25 Jun 2027 | Stockholm, Sweden                | In person | £3,600 |
| 21 - 25 Jun 2027 | Tokyo, Japan                     | In person | £3,600 |
| 21 - 25 Jun 2027 | Toronto, Canada                  | In person | £3,600 |
| 21 - 25 Jun 2027 | Tromso, Norway                   | In person | £3,600 |
| 21 - 25 Jun 2027 | Vienna, Austria                  | In person | £3,600 |
| 21 - 25 Jun 2027 | Zagreb, Croatia                  | In person | £3,600 |
| 21 - 25 Jun 2027 | Zurich, Switzerland              | In person | £3,600 |
| 21 - 25 Jun 2027 | Online, Virtual                  | Online    | £3,600 |
| 25 - 29 Oct 2027 | Abu Dhabi, United Arab Emirates  | In person | £3,600 |
| 25 - 29 Oct 2027 | Abuja, Nigeria                   | In person | £3,600 |
| 25 - 29 Oct 2027 | Accra, Ghana                     | In person | £3,600 |
| 25 - 29 Oct 2027 | Addis Ababa, Ethiopia            | In person | £3,600 |
| 25 - 29 Oct 2027 | Al Ain, United Arab Emirates     | In person | £3,600 |
| 25 - 29 Oct 2027 | Al Khobar, Saudi Arabia          | In person | £3,600 |

| Dates            | Venue                       | Format    | Fee    |
|------------------|-----------------------------|-----------|--------|
| 25 - 29 Oct 2027 | Alberta, Canada             | In person | £3,600 |
| 25 - 29 Oct 2027 | AlUla, Saudi Arabia         | In person | £3,600 |
| 25 - 29 Oct 2027 | Amman, Jordan               | In person | £3,600 |
| 25 - 29 Oct 2027 | Amsterdam, Netherlands      | In person | £3,600 |
| 25 - 29 Oct 2027 | Athens, Greece              | In person | £3,600 |
| 25 - 29 Oct 2027 | Baku, Azerbaijan            | In person | £3,600 |
| 25 - 29 Oct 2027 | Barcelona, Spain            | In person | £3,600 |
| 25 - 29 Oct 2027 | Berlin, Germany             | In person | £3,600 |
| 25 - 29 Oct 2027 | Boston, United States       | In person | £3,600 |
| 25 - 29 Oct 2027 | Brussels, Belgium           | In person | £3,600 |
| 25 - 29 Oct 2027 | Budapest, Hungary           | In person | £3,600 |
| 25 - 29 Oct 2027 | Cairo, Egypt                | In person | £3,600 |
| 25 - 29 Oct 2027 | Cape Town, South Africa     | In person | £3,600 |
| 25 - 29 Oct 2027 | Casablanca, Morocco         | In person | £3,600 |
| 25 - 29 Oct 2027 | Dammam, Saudi Arabia        | In person | £3,600 |
| 25 - 29 Oct 2027 | Dhahran, Saudi Arabia       | In person | £3,600 |
| 25 - 29 Oct 2027 | Doha, Qatar                 | In person | £3,600 |
| 25 - 29 Oct 2027 | Dubai, United Arab Emirates | In person | £3,600 |
| 25 - 29 Oct 2027 | Edinburgh, United Kingdom   | In person | £3,600 |
| 25 - 29 Oct 2027 | Edmonton, Canada            | In person | £3,600 |
| 25 - 29 Oct 2027 | Frankfurt, Germany          | In person | £3,600 |
| 25 - 29 Oct 2027 | Geneva, Switzerland         | In person | £3,600 |
| 25 - 29 Oct 2027 | Houston, United States      | In person | £3,600 |
| 25 - 29 Oct 2027 | Istanbul, Turkey            | In person | £3,600 |
| 25 - 29 Oct 2027 | Jakarta, Indonesia          | In person | £3,600 |
| 25 - 29 Oct 2027 | Jeddah, Saudi Arabia        | In person | £3,600 |

| Dates            | Venue                        | Format    | Fee    |
|------------------|------------------------------|-----------|--------|
| 25 - 29 Oct 2027 | Jubail, Saudi Arabia         | In person | £3,600 |
| 25 - 29 Oct 2027 | Khamis Mushait, Saudi Arabia | In person | £3,600 |
| 25 - 29 Oct 2027 | Kigali, Rwanda               | In person | £3,600 |
| 25 - 29 Oct 2027 | Kuala Lumpur, Malaysia       | In person | £3,600 |
| 25 - 29 Oct 2027 | Lisbon, Portugal             | In person | £3,600 |
| 25 - 29 Oct 2027 | Liverpool, United Kingdom    | In person | £3,600 |
| 25 - 29 Oct 2027 | London, United Kingdom       | In person | £3,600 |
| 25 - 29 Oct 2027 | Los Angeles, United States   | In person | £3,600 |
| 25 - 29 Oct 2027 | Luanda, Angola               | In person | £3,600 |
| 25 - 29 Oct 2027 | Madrid, Spain                | In person | £3,600 |
| 25 - 29 Oct 2027 | Manama, Bahrain              | In person | £3,600 |
| 25 - 29 Oct 2027 | Marbella, Spain              | In person | £3,600 |
| 25 - 29 Oct 2027 | Marrakech, Morocco           | In person | £3,600 |
| 25 - 29 Oct 2027 | Miami, United States         | In person | £3,600 |
| 25 - 29 Oct 2027 | Milan, Italy                 | In person | £3,600 |
| 25 - 29 Oct 2027 | Munich, Germany              | In person | £3,600 |
| 25 - 29 Oct 2027 | Muscat, Oman                 | In person | £3,600 |
| 25 - 29 Oct 2027 | Nairobi, Kenya               | In person | £3,600 |
| 25 - 29 Oct 2027 | New York, United States      | In person | £3,600 |
| 25 - 29 Oct 2027 | Nice, France                 | In person | £3,600 |
| 25 - 29 Oct 2027 | Nouakchott, Mauritania       | In person | £3,600 |
| 25 - 29 Oct 2027 | Oslo, Norway                 | In person | £3,600 |
| 25 - 29 Oct 2027 | Paris, France                | In person | £3,600 |
| 25 - 29 Oct 2027 | Port Louis, Mauritius        | In person | £3,600 |
| 25 - 29 Oct 2027 | Prague, Czech Republic       | In person | £3,600 |
| 25 - 29 Oct 2027 | Pretoria, South Africa       | In person | £3,600 |

| Dates            | Venue                            | Format    | Fee    |
|------------------|----------------------------------|-----------|--------|
| 25 - 29 Oct 2027 | Riyadh, Saudi Arabia             | In person | £3,600 |
| 25 - 29 Oct 2027 | Rome, Italy                      | In person | £3,600 |
| 25 - 29 Oct 2027 | Sarajevo, Bosnia and Herzegovina | In person | £3,600 |
| 25 - 29 Oct 2027 | Sharm El Sheikh, Egypt           | In person | £3,600 |
| 25 - 29 Oct 2027 | Singapore                        | In person | £3,600 |
| 25 - 29 Oct 2027 | Stockholm, Sweden                | In person | £3,600 |
| 25 - 29 Oct 2027 | Tokyo, Japan                     | In person | £3,600 |
| 25 - 29 Oct 2027 | Toronto, Canada                  | In person | £3,600 |
| 25 - 29 Oct 2027 | Tromso, Norway                   | In person | £3,600 |
| 25 - 29 Oct 2027 | Vienna, Austria                  | In person | £3,600 |
| 25 - 29 Oct 2027 | Zagreb, Croatia                  | In person | £3,600 |
| 25 - 29 Oct 2027 | Zurich, Switzerland              | In person | £3,600 |
| 25 - 29 Oct 2027 | Online, Virtual                  | Online    | £3,600 |

## Certificate

Attendees who successfully complete the Corrosion Control in Ammonia/Urea Manufacturing Training Course receive a Certificate of Completion from Institute For Oil & Gas Training.

The certificate confirms completion of the training programme and participation in its learning activities. Attendees must satisfy the course attendance requirement established by Institute For Oil & Gas Training to receive the certificate.

The Certificate of Completion recognises participation in the training course. It does not constitute a professional licence, statutory authorisation or independent technical certification unless separately specified by an authorised certifying body.