AZ TECH

"Excellent Service – Excellent Delivery"

Corrosion Control in Oil, Gas & Water

Mitigating and Controlling Corrosion Damage Mechanisms in Oil, Gas and Water

22 - 26 March 2020
13 - 17 December 2020
Dubai, United Arab Emirates

An ISO 9001:2015 Certified Company

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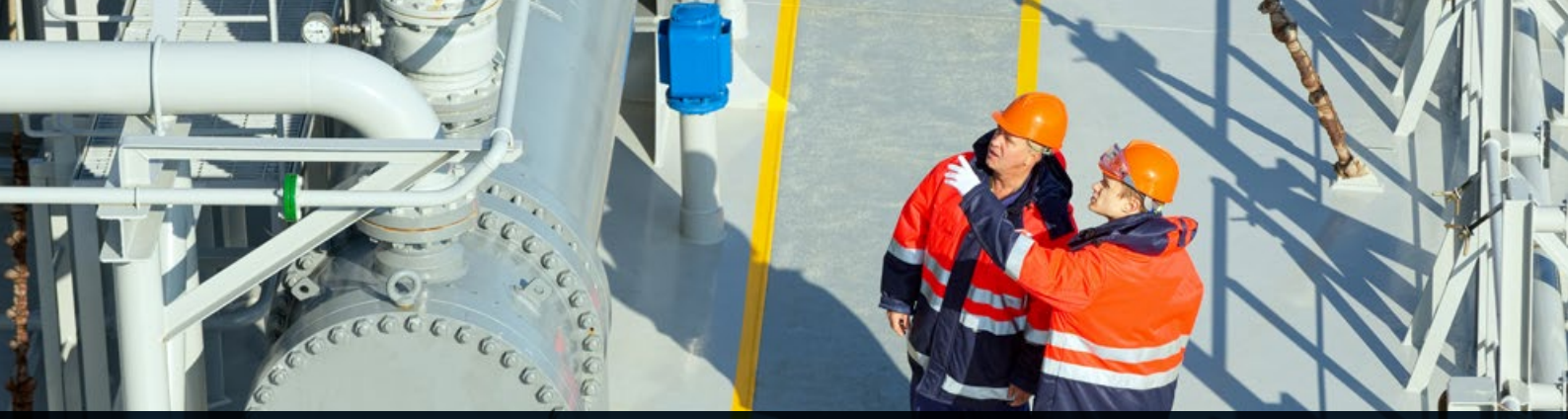
United Nations Global Compact



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Why Choose this Training Course?

This AZTech training course provides a deep knowledge of corrosion and focuses on the examination and identification of metallurgical problems that occurs in process units and methods of monitoring and damage reduction.

The equipment costs are a considerable part of the investment in the petro chemical and water industry, and for long-distance, large-diameter pipelines, they can become prohibitively high if the corrosivity of the fluid necessitates the use of corrosion-resistant alloys instead of carbon steel. Better understanding and control of the corrosion of carbon steel can increase its application range and therefore have a large economic impact.

Corrosion Control is an essential requirement in Oil & Gas activities. It utilizes application of engineering principles and procedures to minimize corrosion to an acceptable level by the most economical method. It is rarely practical or economical to eliminate corrosion completely and in practice one or more of the following methods would be applied.

Corrosion monitoring provides an early warning that damaging process or conditions exist which may result in corrosion induced failures. Moreover, it indicates the correlation of changes in process parameters and their effect on system corrosion. Corrosion Monitoring is essential to evaluate the service life of pipelines and to detect when would be the nearest replacement/ shutdown.

This AZTech training course will feature:

- Metallurgy and engineering material properties
- The cost of corrosion damages in industries
- Proper Corrosion mechanisms related to the oil, gas and water
- Major Corrosion control and mitigating programs
- Advanced techniques of corrosion monitoring

What are the Goals?

At the end of this training course, participants will have learned about:

- Materials of Construction used in the O&G and water fields
- Corrosion theories and mechanisms
- Typical Types of corrosion related to O&G and water fields
- Corrosion Monitoring and inspection Methods
- Practical Methods of controlling corrosion

Who is this Training Course for?

This AZTech training course is suitable to a wide range of professionals but will greatly benefit:

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

How will this Training Course be Presented?

This AZTech training course will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes comprehensive hard and electronic course notes and copies of all presentation material. Relevant computer simulations and videos will be utilized to help with the understanding of the various topics.

THE COURSE CONTENT

DAY 01:
Construction Material Grades and Principles of Corrosion Engineering

- Metallurgy and Engineering material properties
- Materials testing (Destructive testing)
- Material identification according to API 5L and ASME code
- Economic impacts of corrosion
- Theory of Corrosion
- Corrosion rates and ways of measurements

DAY 02:
Types of Corrosion

- Galvanic corrosion
- Localized / pitting corrosion
- Corrosion exposed to stray currents
- Soil corrosion
- Crevice corrosion
- Microbiologically Induced Corrosion (MIC)

DAY 03:
Types of Corrosion (Continued)

- Wet hydrogen sulfide H2S corrosion mechanisms
- Corrosion Under Insulation (CUI)
- Corrosion Under Supports (CUS)
- Flow assisted corrosion (Erosion Corrosion)
- Cl stress corrosion cracking
- Intergranular corrosion

DAY 04:
Corrosion Control in Oil, Gas & Water Fields

- Protection by changing design
- Active Cathodic protection (Sacrifice anode)
- Cathodic protection (Impressed Current)
- Passive Protection (Coating)
- Types of protection paints
- Inhibitors

DAY 05:
Corrosion Monitoring in Oil, Gas & Water Fields

- Thickness measurements using ultrasonic testing
- Radiographic examination
- Corrosion coupons
- Electrical probes
- Intelligent pigs
- Exam

COURSE SCHEDULE:

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THE CERTIFICATE:

AZTech Certificate of Completion for delegates who attend and complete the training course

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13 - 17 Dec 2020	Dubai - UAE	$4,950

REGISTER NOW

*This fee is inclusive of Documentation, Lunch and Refreshments and exclusive of 5% UAE VAT

Complete & send by fax/mail to address given below. Please use BLOCK CAPITALS.

REGISTRATION DETAILS

FAMILY NAME:

FIRST NAME:

POSITION: COMPANY:

MAILING ADDRESS:

TELEPHONE: MOBILE:

FAX: EMAIL:

AUTHORISATION

AUTHORISE BY:

POSITION: EMAIL:

TELEPHONE: FAX:

POSTAL ADDRESS:

MODE OF PAYMENT

- ☐ PLEASE INVOICE MY COMPANY
- ☐ PLEASE INVOICE ME
- ☐ PLEASE FIND ENCLOSED A CHEQUE PAYABLE TO AZTECH
- ☐ ONLINE / CREDIT CARD

Hotel Accommodation

Hotel accommodation is not included in the Registration Fee. A reduced corporate rate and a limited number of rooms are available for attendees wishing to stay at the hotel venue. Please make your request for accommodation at least **3 weeks** prior to the commencement of the course.

Event Disclaimer

We reserve the right to cancel or postpone a seminar or related event, change venue, substitution of the Instructor and alter the course content at our sole discretion. If this occurs, our responsibility is limited to a refund of any registration fee(s) already paid. We are not responsible for airline tickets, hotels costs, other tickets or payments, or any similar fee penalties or related or unrelated losses, costs and/or expenses registrant may incur or have incurred as a result of any trip cancellations or changes.

Cancellation & Substitution

You must notify the Registrar of cancellations at least **2 weeks before a scheduled** seminar in order to be eligible for a credit. If you cannot attend, you may send a replacement from your organisation at no charge. There is a **$250 handling charge** for all cancellations or rescheduling. We reserve the right to cancel a seminar due to low enrollment. All registrants will be notified in advance and a full refund will be provided upon request.

4 Ways to Register

Toll Free: **800-AZTECH**
Telephone: **+971 4 427 5400**
Fax Number: **+971 4 427 5401**
Email Address: **info@aztechtraining.com**
Visit our website: **www.aztechtraining.com**

Certification

AZTech Certificate of Completion for delegates who attend and complete the training course

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Our training portfolio will provide you a number of seminars and courses to choose from depending on your organisational goals and personal development objectives.