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| **Course Details** |
| **Course Title:** | CORROSION CONTROL |
| **Language:** | English |
| **Course Type:** | Public |
| **Location** | Dubai  |
| **Date:** | 05-09 February 2017 |
| **Duration:** | **5 Days** |
| **Fees:** | **$ 4,000** |
| **Discount:** | **10%**discount if your nomination for **3** Participants**15%**discount if your nomination for **4** Participants |
| **URL** | **http://www.astdubai.co/programs/details/10188\_CORROSION\_CONTROL** |

CORROSION CONTROL

Introduction

Corrosion costs the Oil & Gas and Process industry millions of dollars every year in equipment maintenance and replacement, leaks and system failures. Join your peers at this practical seminar and gain a deep understanding of corrosion processes and monitoring, corrosion control and corrosion prevention techniques.

With a specific focus on the Oil & Gas and Process industry you will learn the latest developments and best practices in materials engineering as well as technologies to prevent and mitigate corrosion effects.

Key Learning Objectives

Understand the cost of corrosion in the Oil & Gas and Process industry

Understand the importance of adopting an inspection strategy

Advantages and disadvantages of available corrosion monitoring techniques

Examine material selection as a method of corrosion control

Be able to monitor the effectiveness of the corrosion control process

SEMINAR OUTLINE

Corrosion - introduction, identification and methods of control

What is corrosion?

What is the cost of corrosion to industry?

How does corrosion take place?

What drives the corrosion process?

What are the distinct types of corrosion?

What are the normal methods used to control corrosion?

Overview of corrosion technology

Corrosion type identification

How corrosion affects the durability of materials

Material selection

Design - good practices - Galvanic Series and its role

Life extension of aging plant, equipment and infrastructure

Design guidelines for corrosion prevention

General classification of engineering materials

Corrosion resistant alloys

General classification of environments

Matching a material with an environment - good choices and bad choices

Examining various types of protective coatings - an overview

Metallic coatings, galvanising and metal spray

Coating types and tape wrappings

Cementicious coatings

Mitigation of internal corrosion

Corrosion rates, corrosion measurement and life prediction

The effects on corrosion of chemical treatments, inhibitors and biocides

Corrosion inhibitors - types and applications

Mitigation of external corrosion

Construction requirements - material durability

Coating applications

Cathodic protection - when is it required?

Corrosion testing and monitoring

Conventional methods - condition assessment and non-destructive testing

Weight loss coupon method (practical exercise)

Electrical resistance method

Electrochemical method

When, why, and how to monitor for corrosion damage

Identifying the make up and function of protective coatings

The practicalities and limitations of various coating types

Where they work and where they do not work

Field testing of protective coatings

Test equipment including paint film thickness and paint film integrity

Cathodic protection (CP)

Theory and application of cathodic protection and how it inter-reacts with protective coatings

Stray current corrosion

Monitoring CP

Evaluation of CP performance

# Training Methodology:

* Lecture
* Exercises
* Case Studies
* Video Presentation
* Question and Answer Session
* Live Audit

We trust the above price meets your requirements and we look forward to hear from you soon. Please do not hesitate to contact us should you require any further information.