



**INDUSTRIAL CORROSION:  
MONITORING,  
INSPECTION, TESTING  
AND CONTROL**

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# INDUSTRIAL CORROSION: MONITORING, INSPECTION, TESTING AND CONTROL

REF: 1147 DATES: 21 - 25 Jan 2019 VENUE: Malaysia (Kuala Lumpur)-Grand Millenium Hotel

## Course Description

Managing corrosion in industries is the most effective method to reduce the cost of the products. This short course is intended to discuss the various corrosion control methods used to manage the corrosion, as well as the basic principles of corrosion, thus extending the life of the engineering components

## Course Objective

??? Addresses the types of corrosion problems encountered in various industries, especially the Oil and Gas industries.

??? It is aimed at corrosion engineers undergoing career development.

??? It provides a useful refresher for the senior corrosion professionals.

??? It provides corrosion awareness for engineers from various disciplines who wish to broaden their understanding of the corrosion aspects of projects or facilities for which they are responsible.

## Who Should attend?

??? Corrosion Engineers and Technicians

??? Inspection, Maintenance Engineers and Managers.

??? Chemical, Metallurgical, Mechanical, Civil, Industrial, and Petroleum Engineers.

??? Safety, and Risk Professionals

## Course Outline

### **Day 1**

??? Background: Corrosion and its Consequences. ???Cost of Corrosion

??? Prediction of Corrosion

??? Basic Electrochemical Theory of Corrosion

??? Forms of Corrosion

??? Uniform

??? Localized (Mechanical, SCC, HIC and SOHIC)

??? Localized (Non-mechanical, Crevice, Bi-metal, and Pitting, and Erosion-corrosion).

### **Day 2**

??? Corrosion in Specific Industrial Environments:

??? Corrosion in Water

??? Corrosion in Soil

??? Microbially Influenced Corrosion (MIC)

??? Corrosion in Oil and Gas Industries (Sweet and Sour Systems)

### **Day 3**

??? Design for Corrosion Control:

??? Materials Selection:

??? Carbon Steels, Low Alloy Steels and Cast Irons

??? Stainless Steels

??? Nickel and Copper Alloys ???

### **Day 4**

??? Cathodic Protection

??? Protective Coatings:

??? Metallic Coatings

??? Inorganic and Organic Coatings  
??? Corrosion Inhibition

## Day 5

??? Corrosion Testing and Monitoring  
??? Corrosion Economics  
??? Corrosion Testing, and Evaluation  
??? Simulated Service Testing  
??? Corrosion Testing in Atmosphere  
??? Corrosion Testing in Water  
??? Corrosion Testing in Soil  
??? Corrosion Evaluation  
??? Evaluation of Pitting Corrosion  
??? Evaluation of Intergranular Corrosion  
??? Evaluation of SCC, and Hydrogen Damage

### COURSE DATES

21 - 25 Jan 2019

**COURSE REF**1147

**VENUE**Malaysia (Kuala Lumpur)

**Address**Grand Millenium Hotel

# Booking: INDUSTRIAL CORROSION: MONITORING, INSPECTION, TESTING AND CONTROL - Malaysia (Kuala Lumpur) 21 - 25 Jan 2019

Please complete the following form required fields are indicated with an asterisk (\*).

## Delegate Information

TITLE

FIRST NAME \*

SURNAME \*

POSITION

PHONE NUMBER (include country)

MOBILE NUMBER (include country) \*

FAX NUMBER (include country)

E-MAIL \*

## Company Information

COMPANY NAME

CITY

COMPANY ADDRESS

COUNTRY

COUNTRY

## Person Responsible for Training

TITLE

FIRST NAME \*

SURNAME \*

POSITION

PHONE NUMBER (include country)

MOBILE NUMBER (include country) \*