Material selection and maintenance, corrosion management Module 3: Corrosion phenomena and inspection in Oil & Gas Processes

Introduction

In oil and Gas production, corrosion forms a continuous threat to structures, equipment and vessels, on and offshore installations. Protecting your assets against integrity losses requires thorough under-standing of materials used and the degradation mechanism (corrosion phenomena).

This one day course provides you the intellectual tools on how to prevent corrosion and choosing the most effective measures when it is already affecting your valuable assets.

Modular course

The module fits in a full course of three modules for marine, offshore activities and oil and gas production.

Module 1: Corrosion basics and mechanisms. Metallurgy, Materials and Plastics for marine, offshore, static equipment and oil and gas.

Module 2: Marine and Offshore (Seawater, Brackish Water Natural Water). Materials Selection, Maintenance, Inspection and Corrosion.

Module 3: Oil and Gas. Oil and Gas Processes. Materials for topside equipment. NACE MR0176 (ISO 15156 for H2S resistant materials), CO2 Corrosion, de Waard

Milliams, NORSOK M506.

Target audience

Process engineers, Maintenance, Design, Piping Engineers, Superintendents, Asset Integrity Managers. Engineers. The course is Dutch or English spoken depending on the audience material will be in English.



Programm:

Materials Selection for Oil and Gas Steel Stainless Steel Copper Alloys Titanium GRE Coatings

ASTM Grades

Pipelines Piping Forgings Cast Alloys

CO2 Corrosion

Basic mechanism De Waard Milliams Calculations NORSOK M506 Calculations Using excel spreadsheets

H2S Corrosion and Design

Basic Mechanism Materials selection and design NACE MR0175/ISO 15156

MIC in Oil and Gas

Basic Mechanism Materials Selection Reservoir Souring

Corrosion in processes

Topside static equipment Downhole tubing and casing API 587 Subsea Corrosion Pipeline Corrosion Corrosion Monitoring

In company trainings are provided in the Dutch or English language on site, world wide and when needed, based on your specific working practice and cases.

