

Materials & Corrosion

An Awareness Course



Wednesday 31 July - Thursday 1 August 2024

TBC, Perth CBD

ARE YOU NEW TO SUBSEA OR UNFAMILIAR WITH CORROSION CONSIDERATIONS?

This two-day course has been specifically designed for people new to subsea or unfamiliar with the various corrosion considerations which need to be applied during design, construction and operation of subsea assets. The course will cover the following topics:

- Overview of corrosion issues
- ► Corrosion & Erosion Modelling
- ► Chemical Selection, Injection & Inhibition
- Specification, Fabrication & Welding
- Cathodic Protection & Coatings
- ▶ Operational Integrity & FFS
- Planning and Implementation of Inspection & Monitoring

WHY WILL THIS COURSE BENEFIT YOU?

The aim of this course is to provide an overview of the various materials and corrosion issues which are applicable to subsea structures. The choices made which impact one area of corrosion and integrity will often impact the choices in other areas, and also affect the long term inspection and monitoring which may be required to ensure the design life is met.

Having a general overview of the interaction between the various factors and the impact that certain choices make and the equipment used in inspecting and monitoring the structures will provide attendees with a broad knowledge on the interaction which needs to be considered in any installation.

PRESENTERS

The course will be presented by experienced personnel from both the supply and subsea industries. Most of the course will be held in a classroom environment, with the session being interactive, with every opportunity to ask questions and discuss the material presented.



Thank you to the presenting companies:















COURSE SCHEDULE

WEDNESDAY 31ST JULY

08.30 Registration

09.00 Introduction & Overview

Grahame Strong, CCE

Overview & setting the scene.

Operating conditions for equipment.

Basic mechanisms of corrosion.

Effects of elevated temperature, CO2, H2S, sand, seabed topography & choice of material.

09.45 Corrosion & Erosion Modelling

Chris Selman, Wood

Models available to model effects of CO2, H2S & sand production on internals of pipelines.

Advantages, disadvantages & limitations of models.

11.15 Morning Tea

11.30 Chemical Selection, Injection & Inhibition

Steve Davoren, Champion

Types of inhibitors for oil & gas subsea production systems. Selection & qualification of inhibitors. Top of line corrosion management Downstream process impacts.

13.00 Lunch Break

13.45 Specification, Fabrication & Welding

Matt Lancien, SPEC

Materials used in subsea & welding related issues
Types of welds / Heat treatment / Metallurgy of welds
Differences between fabrication for subsea & topsides
Limitations imposed on welding offshore pipelines
Testing welds

15.15 Afternoon Break

15.30 Cathodic Protection & Coatings

John Grapiglia, CCE

Codes & standards in design of CP systems Factors affecting performance of CP systems Issues related to CP & the interaction with coating systems

17.00 **End Day 1**

17:30 Course Networking event, TBC

REGISTRATION FORM

Terms & Conditions 2024: Refunds will be made on written cancellation received up to

refunded. Delegates may send a substitute in their place at no charge. Should there be any

COVID related shutdowns that impact this course it will be run online instead of in person.

10 working days prior to the event, but will be subject to a 15% administration charge.

Cancellations received 9–4 working days prior to the event will be charged a 50% cancellation fee. Cancellations received 3–0 working days prior to the event will not be

Please submit your registration to:

Onsite parking available at the venue for \$15/day

Jade Melville Tel: + 61 (0) 8 9481 0999 Email: perthevents@sut.org

THURSDAY 1ST AUGUST

08.30 Operational Integrity & FFS

Colin Radici, Rosen

Pipeline pigging
Codes & standards for defect assessment/repair
Types of pigs, their benefits
Data collection & how it's processed
Limitations affecting intelligent pigging &
pipeline design

10.00 Morning Tea

10.15 Planning & Implementation of Inspection & Monitoring

Brian Matthews & Andrew McGregor,

Issues affecting subsea structures Types of inspection

ROV types, inspections & tooling ROV capabilities & regulatory requirements for

inspection
What data is required to perform thorough

inspections?

Other forms of inspection (divers etc)

11.45 Lunch

12.30 Depart for Site Visit

Baker Hughes

Delegates will be taken on a guided tour of the Baker Hughes subsea service facility. They will have the opportunity to view various items of subsea production equipment and gain insight into material selection and corrosion control applied to equipment operating in a subsea environment.

14.30 Arrive Back in Perth CBD (time is approximate)

** SUT reserve the right to amend the course programme as required.

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