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
- Service Facility Site Visit
- Curtin Corrosion Centre Site Visit

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 as well as a couple of site visits to relevant facilities.
**REGISTRATION FORM**

SUT Membership Number

Full name

Job title

Organisation/company

Address

City

County

Postcode

Telephone

Email

Signature

**Course fees: (please tick)**

- Early Bird* Member  $1090 AUD
- Early Bird* Non-member  $1300 AUD
- Member   $1360 AUD
- Non-Member  $1620 AUD
- Student Member  $440 AUD

*Early Bird rates apply to all bookings paid by 30 June 2021. All bookings received from 1 July 2021 will be charged at the standard rate.

Rates include GST at standard rate.

Terms & Conditions 2021: Refunds will be made on written cancellation received up to 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 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.

Please note, direct competitors of site inspection hosts will be unable to participate in this component of the course.

**PAYMENT INFORMATION:**

- Please invoice (P.O. No.) [ ]
- Credit Card [ ]

If you choose Credit Card, please provide the following:

- Credit card: [ ]
- Mastercard, Visa or AMEX* ONLY.
- *Payment by AMEX will carry a 2.75% surcharge, Visa a 1.5% surcharge.
- Card number
- Card holder’s name
- Signature
- Expiry date
- Security Code (last 3 digits on the back of your card)
- Start date
- Issue number
- Email address to send receipt

**Please tick here if you do not want to receive our weekly newsletter.**

Onsite parking available at the venue for $15/day

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**COURSE SCHEDULE**

**WEDNESDAY 28TH JULY**

08.30 Registration

09.00 Introduction & Overview

- Chris Solomon, Wood
  - 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 Solomon, 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

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

12.30 Lunch Break

13.00 Lunch

13.45 Specification, Fabrication & Welding

- Niekie Jooste, The WeldNet
  - 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 Course Conclusion (time is approximate)

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**THURSDAY 29TH JULY**

08.30 Operational Integrity & FFS

- Grahame Strong, CCE
  - 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

- Irene Pettigrew, Sonomatic
  - 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 (diver’s etc)

12.30 Department 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.

15.00 Course Networking event

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12.30 Depart for site visit

- Baker Hughes
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**Please submit your registration to:**

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

Images courtesy of ChampionX