

Subsea Awareness Course

22nd– 26th June, 2015

Hotel Jen

1A Cuscaden Road, 249716, Singapore



This four and a half day Course has been designed to be suitable for contractors, engineers, operators and those new to the offshore industry, those transferring from other disciplines within the industry and those who have worked in subsea previously but would benefit from a refresher course and exposure to the latest technology. Whilst most of the course will be presented in a 'classroom' environment, the sessions will be interactive, with the opportunity to ask questions and discuss what has been learnt.

PROGRAMME

Day 1: 09.00 – 18.00

General Introduction to the Subsea Sector

Overview

- Why subsea?
- What other options are available, including option evaluation and election?
- Examples of different systems used on existing fields
- What are the current design philosophies and the technology drivers?

Subsea Development Options

- Single well tieback, template, cluster/manifold etc

Tea/Coffee

Components of Subsea Systems/'Building Blocks'

- What is the purpose of each and how do they fit into the overall system?

Development Areas

- Deep water/ultra deep water
- Complete subsea solutions

12.30 - 13.30 Lunch

Flow Assurance

- Understanding the nature of fluids, thermal management of subsea systems

Tea/Coffee

- Deep- and ultra-deepwater development, seabed processing

17.00–18.00

Networking session

Day 2: 09.00 - 17.00

Subsea Wellheads/Trees

Introduction Getting to know the Technology and Terminology

- Drilling Vessels
- The basics of Drilling a Well
- An overview of Key components and their methods of operation
- Xmas Tree Applications
- Completion risers

Tea/coffee

Wellhead Systems

- UWD-15 Wellhead System Overview
- UWD-15 Wellhead Installation Animation

Tree systems

- HXT and VXT System Overview
- HXT & VXT Installation & Tooling Overview
- HXT Installation Animation
- VXT Installation Animation

12.00 – 12.45 Lunch

Templates Manifolds and Connections

Tea/coffee

2.15 pm Depart Hotel for site visit to FMC's base at Gul Circle.

17.00 Return to Hotel, Day end

Day 3: 09.00 – 16.45

Subsea Control Systems

Types of Control System

- Advantages/disadvantages of each type

Tea/coffee

Typical Equipment

- Hydraulic power unit, electrical power unit, master control station, subsea control modules

Subsea Options

- Hydraulics, electrics, umbilical's, sensors

Operator Interface

- Master control station, functionality and options

Future

- Technology drivers

12.30 – 13.30 Lunch

Subsea Control Fluids

- The control fluid as a component of the system
- Anatomy of a control fluid
- Environmental impact

Tea/coffee

Umbilicals

- Design • Manufacture • Project Uses

16.45 Day end

Day 4: 09.00 - 16.45

Installation

Field Architecture Overview

- Subsea tieback • Subsea floater

Installation Vessels

- Vessel Types, Positioning

Structures

- Structure types, Foundation types, Foundation installation, Structure Installation

Pipelines - Flexibles

- Flexible Types, Critical success Factors, Installation methods

Pipelines - Rigid

- Rigid types, Critical success factors, Installation methods

Tie Ins

- Rigid spools, Flexible jumpers, Flying leads, Critical success factors

12.30 - 13.30 Lunch

Remote Intervention

Introduction

- Safety, current environment, technology drivers, water depth

ROV Technology

- Introduction, system types
- Typical system components
- Operational systems & capabilities, launch & recovery systems

Tea/coffee

AUV Technology

- Introduction, system components, capabilities, sensors, trials & testing

Systems

- Tooling standards, interfacing, component replacement systems
- Connection systems, diverless pipeline repair

16.45 Day end

Day 5: 09.00 - 12 Noon

Workshop Tour

Fugro Subsea Technologies Pte Ltd.

From drawing board to reality: You will have the opportunity to follow the stages involved in creating and building the FCV 3000 - Next Generation Work Class ROV & the FCV 600. You will be taken through the stages from concept/drawing/building to FAT.

You will also have the opportunity to view the ROV control cabins with the latest generation pilot console.

12 Noon, return to Hotel Course Close



SUT reserves the right to change/amend the programme as it see fit.

Registration form overleaf - For more information on this course, please contact Joyce Bremner on j.bremner@sut.org



Registration Information – Subsea Awareness Course - Singapore

To register, please e-mail completed registration form to Joyce Bremner on J.Bremner@sut.org

Registration Fees

SUT Members 3000.00 Singapore Dollars

Non Member 3250.00 Singapore Dollars

Please note that all payments will be charged in British Pound Sterling, an exchange rate of S\$2.00 Singapore Dollars to £1 will be used
Included in the Fees: All refreshments during the Course, transport to and from site visits a copy of the Course notes in handout format and USB memory stick containing PDF versions of the presentations.

Preferred Payment Methods:

Credit Card: Mastercard or Visa ONLY. We cannot accept payment by other cards.

Bank Transfer: (exclusive of transfer fees and currency exchange rates) details will be provided upon request

Invoice: Please provide Po no. if required, contact name, company name & address as should be shown on invoice.

Joining Instructions:

Joining instructions will be e-mailed to the registered delegate (as shown on the registration form). All details of presenters and updates to the programme will be included in the joining instructions.

Site Visit:

All costs for the site visits are included in the registration fee, transport will be arranged by the SUT.

Cancellations:

Refunds will be made on written cancellation received up to ten working days in advance of the event, but will be subject to a 15% handling charge. 50% will be deducted up to three working days in advance and 100% thereafter up to the start of the event. No refund will be given for non-attendance. Delegates may wish to nominate a substitute in their place.

Transport During the Course:

Delegates are responsible for their own travel arrangements to and from the Traders Hotel.

Registration Form

Please e-mail completed registration form to Joyce Bremner on **J.Bremner@sut.org**

SUT Member No. _____

Please tick to indicate your preferred payment method:

Credit Card _____ (Visa or MasterCard)

Invoice (PO No.) _____

Bank Transfer _____

Name of attendee _____

Company _____

E-mail address _____ Tel No. _____

If paying by credit card, please provide the following information:

Credit Card No: VISA or MASTERCARD ONLY _____/_____/_____/_____

Exp. _____ / _____ Security no _____ (last 3 digits on the back of your card)

Name on the card _____

Billing Address _____

Amount to be charged _____ Signature _____

E-mail address to send payment receipt _____

If you require an invoice please provide the following information:

PO No. should it be required _____ Amount to be charged _____

Company Name and address as it should be shown on invoice _____

E-mail address where soft copy invoice should be sent _____