Subsea Awareness Course

26th - 30th October 2015

Parkroyal Kuala Lumpur Hotel

Jalan Sultan Ismail, 50250, Kuala Lumpur, Malaysia

SUT
Society for Underwater Technology

This four and 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

PROGRAMME

Day 1: 09.00 – 16.45
General Introduction to the Subsea Sector
Presented by: SUT KL Branch

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 Lunch

13.30

Flow Assurance
Presented by: Wood Group Kenny

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

Tea/Coffee

• Deep- and ultra-deepwater development, seabed processing

17.00 Ice Breaker

Day 2: 09.00 – 16.45
Subsea Wellheads/Trees
Presented by: One Subsesa

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
• STC - 10 wellhead system overview
• STM - 15 wellhead installation animation

12.30 – 13.30 Lunch

Tree Systems
• HXT & VXT system overview
• HXT & VXT installation and tooling overview
• HXT installation animation
• VXT installation animation

Tea/coffee

Templates Manifolds and Connections

Connection Systems

16.45 Day end

Day 3: 09.00 – 16.45
Subsea Control Systems
Presented by: Aker Solutions

Introduction
• Overview, what does the control system do

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, umbilicals, sensors

Operator Interface
• Master control station, functionality and options

Controls Intervention:
Future Technology drivers

12.30 – 13.30 Lunch

Subsea Control Fluids
Presented by: Castrol Offshore

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

Tea/coffee

Umbilicals
Presented by: Aker Solutions
• Design   • Manufacture
• Project Uses

16.45 Day end

Day 4: 09.00 - 16.45
Installation
Presented by: Technip Malaysia

Introduction: 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
Presented by: Fugro Subsea Technologies Pte. Ltd.
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: 08.00 - 12.45
Depart Parkroyal Hotel for Site Visit to Aker Solutions facility at Port Klang
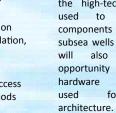
From drawing board to reality: you will see the high-tech equipment used to manufacture components for control of subsea wells & trees. You will also have the opportunity to view the hardware components used for subsea architecture.

12.45 Arrive back at Parkroyal Hotel Course conclusion

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

www.sut.org

Registration Information – Subsea Awareness Course - Kuala Lumpur

To register, please e-mail completed registration form to KLevents@sut.org

Registration Fees

SUT Members MYR 7250.00   Non Member MYR 7750.00

Included in the Fees: All refreshments during the Course, transport to and from Aker Solutions, 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.

Invoice: full details must be supplied ie. Po no. address to which the invoice should be sent.

Bank Transfer: (inclusive of transfer fees and currency exchange rates) Bank details will be provided on request.

Joining Instructions:

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

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 Parkroyal Hotel Kuala Lumpur. Transport will be provided to and from AkerSolutions for the site visit on the Friday.

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

Registration Form

Please e-mail completed registration form to **KLevents@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 where receipt should be sent _____

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 _____

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