

Subsea Overview Course

6th – 8th December 2011

Training Choice, 50 Queen Street,
Melbourne, Victoria, Australia



This three day overview 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

PROGRAMME

Day 1: 09.00 – 12.30

General Introduction to the Subsea Sector

Presented by: JP Kenny Pty Ltd.

• Why subsea?

Components of Subsea Systems - hardware and soft issues

Subsea Development Options

- Platform - Floaters - All Subsea

Well arrangements

- Single well tieback - Template - Cluster - Daisy-Chain

Tea/Coffee

Subsea Challenges

- High Pressure and Temperature
- Assets in the Abyss • Long distance tie-backs

12..30- 13.45 *Lunch*

Subsea Wellheads/Trees

Presented by: GE Oil & Gas

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

Wellhead Systems

- Wellhead system overview
- Wellhead installation animation

Tea/coffee

Tree Systems

- HXT & VXT system overview
- HXT & VXT installation and tooling overview
- HXT installation animation

Templates Manifolds and Connection Systems

16.45 Day end

18.30 Course Dinner

Bergerac Restaurant, 131 King St.

Sponsored by:



Day 2: 09.00 – 12.30

Subsea Control Systems

Presented by: Origin Energy

Types of Control System

- Advantages/disadvantages of each type

Tea/coffee

Subsea Production Systems

- Hydraulics, electrics, umbilical's, sensors

Typical Equipment

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

Operator Interface

- MCS, functionality and options

11.45 Subsea Control Fluids

Presented by: Houghton

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

12.45– 13.30 *Lunch*

13.30 Installation

Presented by: JP Kenny Pty Ltd.

Field Architecture

- Subsea tieback • Subsea floater

Installation Vessels

- Vessel Types ,Positioning, Critical success factors

Structures

- Structure types, Foundation types, Foundation installation, Structure Installation, Critical success factor

Tea/coffee

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

16.30 Day end

Day 3: 09.00—12.30

Remote Intervention

Presented by: DI Design

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

12.30 - 13.15 *Lunch*

Operating Subsea Systems

Presented by: Tek-Ocean

A short overview of operating a subsea system, from well start up through the operating phase to well shutdown. What information is readily available, how to interpret it, to ensure a safe, smooth and efficient operation

Tea/coffee

Vulnerabilities - What could go wrong?

Presented by: Tek-Ocean

Explanations of the vulnerability of subsea hardware to the following: Hydrates, waxes & scale, causes & remedies; Insulation Resistance; Gas Ingress & condensing water Technology Obsolescence Reliability, redundancy & flexibility Dragged & dropped objects - Fishing activity, Corrosion/erosion Marine environmental influences - temperature, internal water motions, marine growth.

16.00 Day end

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

Presenting Companies Include:



DI Design



Registration Information – Subsea Overview Course - Melbourne 6 - 8 December 2011

To register, either e-mail the information required on the registration form to J.Bremner@sut.org or fax the completed form to Joyce Bremner on +61 8 9204 3826 Tel. +61 8 9446 9903

Registration Fees

SUT Members \$1500.00 + GST

Non Member \$1800.00 + GST

Included in the Fees: Printed handout notes, DVD containing presentations in PDF format and available animations
All refreshments during the Course, including dinner on the first night,

Preferred Payment Methods:

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

Cheque: Australian Dollar only, made payable to the Society for Underwater Technology,
Send to. PO Box 6227, Chapel Street North, South Yarra, VIC 3141

Bank Transfer: (exclusive of transfer fees and currency exchange rates) to
Westpac Banking Corporation, 447 Bourke Street, Melbourne, 3000
Account no. 294903 BSB 033-146 Account name: SUT Australasia Melbourne Branch

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.

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 course venue.

Registration Form

Please e-mail details to J.Bremner@sut.org or fax the completed form to +61 8 9446 9905

SUT Member No. _____

Please tick to indicate your preferred payment method:

Credit Card _____ (Visa or MasterCard) Cheque _____ Invoice (PO No.) _____

Name _____

Company _____

Address _____

E-mail address _____ Tel No. _____

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 if not as above _____

Amount to be charged \$ _____ Signature _____

E-mail address where receipt for credit card payment should be sent _____