

# ENGINEERING OF SUBSEA PRODUCTION SYSTEMS – LEVEL 2

7 - 10 December 2016 | Singapore

## COURSE OUTLINE

### DAY 1

0830hr Course Presentation, Objectives & Analysis of the Pre-Course Questionnaire and Safety Brief

### 0900hr THE SUBSEA BUILDING BLOCKS, THE FLOATING HOSTS & THE FIELD ARCHITECTURE

#### L1 | INTRODUCTION TO OFFSHORE ENGINEERING, SUBSEA DEVELOPMENT OPTIONS & THE SUBSEA BUILDING BLOCKS

Why subsea: Operators preferences; Current design philosophies; from B61 to B65 to New Subsea Technologies. From the most simple to the most complex field development.

#### L2 | INTRODUCTION TO FPSOS, OTHER FLOATING HOSTS & AROUND THE WORLD DEEPWATER REVIEW

Spread moored & turret moored FPSO; in Shallow & deep waters around the world. Spar & Semi-sub TLP & mini TLPs. FDPSO? Etc... What is next with the Gas & Floating LNG (FLNG solutions to date)

#### L3 | FIELD ARCHITECTURE & LAYOUT – THE DICTATING FACTORS

Specific Analysis of Lay-outs in shallow and deep waters in the North Sea, the GOM, offshore Canada and West Africa (Angola, Nigeria, Mauritania & Ghana) and Asia. From Reservoir configuration, to Subsea Wells locations and profiles, SPS and SURF equipment optimum positions and topside production for Oil, Gas, or Condensate process, storage & Export systems.

1230hr Lunch

### 1330hr SYSTEM DESIGN, FLOW ASSURANCE & CASE STUDY 1 – BP GREATER PLUTONIO

#### L4 | SYSTEM DESIGN REQUIREMENTS FOR WELLS, SPS / SURF & HOST INTERFACES

From the Field Development Plan & the Basis of Design (B of D) to the Subsea Operation "Manual". From Sub-surface requirements to Seabed and to Topside Processing, Controls and export options. Within an Integrated Project Team looking at early concepts, preferred solutions & to a fully operational, reliable total Production System.

#### L5 | FLOW ASSURANCE ISSUES, MITIGATION & PREVENTION METHODS

From the early days in shallow waters to very complex situations today, in deep and ultra-deep waters for production of Oil Fields, Gas & Condensate Fields. What to do and not to do? Have we made mistakes? Yes & Why? What about the Cold points and rigid spools: Vibrations? Simulations & Analysis. Experiences from various Operators.

– L5 + TOTAL deep water constraints. A short pdf presentation in complement.

– L5 ++ Flow Assurance Shell first OTC Paper after Malampaya Field detail design work.

### CASE STUDY 1: BP ANGOLA BLOCK 18 GREATER PLUTONIO SUBSEA HUB PRODUCING INTO A LARGE FPSO

Detailed review and analysis of training the offshore Operators at Level 1 with a purpose designed Training CD. After a slide presentation, a key points CD analysis will be made covering all the key issues any BP Operator needed to learn before going to work Offshore. A copy of the CD will be given to every Participant, for further in-house learning.

2330hr End of Day 1

Footnote: Many points in the course will be illustrated with video sequences & animations from AOL DVD / CD collection

### DAY 2

0830hr WELLHEAD, XMAS TREES, TEMPLATES, MANIFOLDS & WELL WORKOVER

#### L6 | SUBSEA WELLHEAD SYSTEMS AND GUIDE BASE

Types of Wellheads; for Drilling and for Subsea Completions with a brief intro into drilling operations, setting the 30° Conductor, the guide base & the WH. Review of various equipments, installation sequence in shallow & deep waters, illustrated with animations.

#### L7 | SUBSEA X TREES FOR PRODUCTION, WATER INJECTION AND GAS PRODUCTION OR RE-INJECTION

Types of Xmas Trees; with development history, Conventional Dual bore Vertical XTree X60, Why the Horizontal XTree HXT was invented & now why the Drill Through Horizontal Tree DTHXT with advantages and limitations. Reported problems.

L7 ++ Total S&P field experience. All electric SPS using Cameron DC system (Rio Conf Report)

A review of all main Manufacturers Products, Main components, Testing and Installation sequence and typical Scope of Work for the Manufacturers.

If time, Animations of DTHXTs in use in the Delta Field by Aker S&P in the Jubilee Field by FMC.

#### L8 | SUBSEA WELL OPERATION AND MAINTENANCE

Conventional Heavy Work-Over done by Rig, or low cost intervention by Well Service Vessel (W.S.V) using Subsea Lubricator or the new technique by Expro with the Rigless AX-S system.

1230hr Lunch

### 1330hr SUBSEA "HARDWARE" FOR SPS & SURF + HISC & FLOWLINES PART 1

#### L9 | SUBSEA "HARDWARE", TEMPLATES, MANIFOLDS AND CONNECTIONS

With development history the need for templates or cluster/ manifolds, daisy chains & intra-field flowline connections or export pipelines in shallow & deep waters. Illustrated with animations & video sequences.

- Manifold design for Production and other functions.
- Templates & Manifolds in shallow waters and planned for deep waters "in the old days"
- Modular Template Manifold system by Kongsberg/FMC. Analysis of the Chinguetti Field
- Piping materials, Valves & Chokes
- Instrumentation, Sensors & Meters including MPFM and Fluid sampling
- Flowlines connection systems. Advantages, Limitations and potential problems
- PLEM & ILET or ILET
- HIPS

– L9 ++ Introduction to Materials, Valves & Chokes, Corrosion & Cathodic protection, etc

#### L10 | MANAGING HYDROGEN INDUCED STRESS CRACKING (HISC) History & Solutions

A review of all main Manufacturers Products, Main components, Testing and Installation sequence and typical Scope of Work for the Manufacturers.

#### L11 | MULTIPHASE PUMPS & WET GAS COMPRESSORS

Recent examples in Angola with the Pachon Field & the Girri Field, + in the Norwegian North Sea for Statoil Hydro/Shell Ormen Lange Field.

# Subsea Engineering Training Manual

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## **Subsea Engineering Training Manual:**

**Engineer Training Manual. U.S. Army** United States. Army. Corps of Engineers Board on engineer troops,1917

**The Underwater Handbook** Charles Shilling,2013-11-11 This handbook attempts to translate data on various parameters of man's capability in underwater and hyperbaric environments for those without a background in the life sciences Accomplishing any multifaceted task requires team work and effective team work depends on facile communication among all participants To communicate properly all parties must understand each other's problems and be able to speak a similar language To this end we believe that this publication will go a long way in furthering the understanding and communication necessary for maximum achievement The U S Navy has a fundamental interest in all types of activities connected with the ocean and is especially interested in the growing field of manned underwater and hyperbaric activities Thus the manuscript for this comprehensive book was developed under Office of Naval Research contract N00014 67 A 0214 0013 with The George Washington University We acknowledge with appreciation the financial support and technical guidance for this undertaking by the Naval Medical Research and Development Command of the Bureau of Medicine and Surgery as well as by the Engineering Psychology Program and the Physiology Program of the Office of Naval Research JOSEPH P POLLARD Director Biological and Medical Sciences Division Office of Naval Research vii Preface A need was felt for a book that would document the relationship of the human being to the underwater hyperbaric environment in such a way that the individual unfamiliar with the psychological or biomedical jargon could still understand and appreciate the information

[U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973](#) United States.

Environmental Protection Agency. Library Systems Branch,1974 [Concrete for Extreme Conditions](#) Ravindra K.

Dhir,Michael John McCarthy,Moray D. Newlands,2002 **Diver's Handbook of Underwater Calculations** Wayne C. Tucker,1980 Countless problems confronting the practicing commercial diver can be worked out easily and accurately with the use of the formulae provided in this unique guide to underwater calculations *product guide SUMMER 2008 ,*

**ASCE Manuals and Reports on Engineering Practice ,2001** **Thesaurus of Engineering and Scientific Terms**

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focusing on the post Macondo environment where tighter regulations and new standards are in place worldwide. Too many training facilities currently focus only on the drilling side of the well's cycle when teaching well control, hence the need for this informative guide on the topic. This long awaited manual for engineers and managers involved in the well completion and intervention side of a well's life covers the fundamentals of design, equipment and completion fluids. In addition, the book covers more important and distinguishing components such as well barriers and integrity envelopes, well kill methods specific to well completion and other forms of operations that involve completion like pumping and stimulation including hydraulic fracturing and shale coiled tubing, wireline and subsea intervention. Provides a training guide focused on well completion and intervention. Includes coverage of subsea and fracturing operations. Presents proper well kill procedures. Allows readers to quickly get up to speed on today's regulations post Macondo for well integrity, barrier management and other critical operation components.

**Bridge Safety** United States. Congress. House. Committee on Public Works and Transportation.

Subcommittee on Investigations and Oversight, 1988     *Ocean News & Technology*, 2003     *Subsea Engineering Handbook*

Yong Bai, Qiang Bai, 2012-01-13 Subsea production systems overview of subsea engineering subsea field development subsea distribution system Flow assurance and system engineering Subsea structure and equipment Subsea umbilical risers and flowlines     **The Engineer**, 1879

Discover tales of courage and bravery in this empowering ebook, Stories of Fearlessness: **Subsea Engineering Training Manual**. In a downloadable PDF format (\*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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