

ENGINEERING OF SUBSEA PRODUCTION SYSTEMS – LEVEL 2

7th TO 10th October 2024 | Singapore

COURSE OUTLINE

DAY 1

0830hr Course Introduction, Objectives & Structure of the Pre-Course Questionnaires and Supply Brief

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

0915 | INTRODUCTION TO OFFSHORE ENGINEERING, SUBSEA DEVELOPMENT OPTIONS & THE SUBSEA BUILDING BLOCKS

Why Subsea? Operators' preferences; Current design philosophies; from 888 to 886 to New Subsea Technologies. From the most simple to the most complex field development.

0930 | INTRODUCTION TO FPSO, 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, TOPCON Etc... What is next with the Gas & Floating LNG (FLNG) solutions to date?

0945 | 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 Reserve configuration, to Subsea Wells locations and profiles, SPS and SURF equipment optimum positions and topology production for Oil, Gas, or Condensate process, Storage & Export systems.

1230hr Lunch

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

1345 | 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 Surface 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.

1400 | 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 pipe vibrations? Simulations & Analysis – Experiences from various Operators.

+ 15.4 TOTAL deep water constraints. A short pdf presentation in complement.

+ 15.14 Flow Assurance Short First OTC Paper after Malampaya field detail design work.

CASE STUDY 2: BP ANGOLA BLOCK 88 GREATER PLUTONIO-SUBSEA HUB PRODUCING INTO A LARGE FPSO

Detailed review and analysis of tracing 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.

1730hr End of Day 1

Footnote: Many points in the course will be illustrated with video, drawings & animations from ADE, DPDS / CO collection

From Your Whole Team At A Convenient Time And Location Through to Home Training

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DAY 2

0830hr WELLSHEAD, EMAS TREE, TEMPLATES, MANIFOLDS & WELL WORKOVER

0845 | SUBSEA WELLSHEAD SYSTEMS AND GUIDE BASE

Types of Wellsheads for Drilling and for Subsea Completions with a land wire into drilling operations, setting the 30" Conductor, the guide base & the WBL. Review of various equipments, Installation sequence in shallow & deep waters, illustrated with animations.

0900 | SUBSEA X TREES FOR PRODUCTION, WATER INJECTION AND GAS PRODUCTION OR RE-INJECTION

Types of Branch Trees, with development history. Conventional dual bore vertical XTree VET, Why the horizontal XTree HET was invented & how why the DRB Rough Horizontal Tree (RHT) with advantages and limitations. Reported problems.

0915 → Total 30% field experience. All sections: SPS using Cameron DC system (the Giant Report)

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

0930, Animations of OTHETs in use in the Delta Field by Baker S & in the Jubba Field by FMC.

0945 | SUBSEA WELL OPERATION AND MAINTENANCE

Conventional Heavy Work-Over done by Rig, or less cost Intervention by Well Service Vessel (WSV) using Subsea Lubricator on the new technique by Cegre with the Rigless M-I system.

1230hr Lunch

1330hr SUBSEA "HARDWARE" FOR SPS & SURF + PISC & FLOWLINES PART I

1345 | SUBSEA "HARDWARE", TEMPLATES, MANIFOLDS AND CONNECTIONS

With development history the need for templates or clusters/manifolds, long chains & long-field flowline connections or export pipelines in shallow & deep waters, illustrated with animations & order sequences.

- + Manual 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 Chongqing Field
- + Flange materials, Valves & Chokes
- + Instrumentation, Sensors & Meters including MPMS and fluid sampling
- + Flowline connection systems. Advantages, limitations and potential problems
- + FLEM & FLET in FLET
- + WOPS

+ 15.15 Introduction to Materials, Valves & Chokes, Corrosion & Cathodic protection, etc)

1400 | 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.

1415 | MULTIPHASE PUMPS & WELL GAS COMPRESSORS

Recent examples in Angola with the Pacifier Field & the Goli Field. + in the Norwegian North Sea for Statoil Hydro2000 Ormen Lange Field.

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