

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 1981 to 1986 to New Subsea Technologies. From the most complex 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 for Seafloor 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 Malaysia's first deep design work.

CASE STUDY 1: BP ANGOLA BLOCK 18 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 WTB. 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 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 + FISC & FLOWLINES PART 1

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.

- Mainstem 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 Puyfior Field & the Goli Field. & in the Norwegian North Sea for Statoil Hydro2000 Ormen Lange Field.

Subsea Engineering Training Manual

**Petrogav International Oil & Gas
Training Center**



Subsea Engineering Training Manual:

Subsea Production Systems Engineering Manual ,1997 Handbook of Bottom Founded Offshore Structures

Jan H. Vugts,2013-12-01 Offshore Engineering continues to develop and expand rapidly While in the public eye its focus has shifted towards subsea and floating developments in ever deeper waters bottom founded structures are still at the industry's heart The fixed structure remains its dependable workhorse and even today newly installed fixed structures far outnumber subsea and floating applications Additionally the knowledge and technology that have literally pushed the boundaries of Offshore Engineering into ever more demanding environments and water depths have been largely pioneered by bottom founded structures An engineer's central skill is to develop coherent and balanced models for the problems encountered Regrettably due to availability of ever more sophisticated computer applications this expertise is at risk of getting lost and adopting computer outcomes without truly understanding the models and their limitations is naive risky and unprofessional Therefore every engineer needs fundamental knowledge and understanding of underlying theories and technologies This Handbook is intended to help offshore engineers acquire and sustain relevant expertise in some notoriously difficult subjects It attempts to stimulate reflection and critical evaluation of the models used and the strengths and weaknesses of the solutions found While dealing more specifically with bottom founded structures the material is generally applicable to offshore structures of all types The Handbook can be used as a textbook for Master's students and as a manual and reference guide for practising professionals Introduction to Offshore Engineering , Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com *Training for job interview Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 271 questions and answers for job interview and as a BONUS 140 links to video movies and web addresses to 195 recruitment companies where

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