

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 Questionnaire 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 881 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 Malaysia's first deep design work.

CASE STUDY 1: 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 purposeful 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

Call us at +65-6742 9927 to ensure or email your query to info@subseaonline.sg. Visit us at www.subseaonline.sg for more information.

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 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.

1230hr Total 30% Field experience. All sections: SPS using Cameron DC system (the Gulf Report)

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

15 mins. Animations of OTHETs in use in the Delta Field by Baker S & in the Jubba Field by FMC.

1415 | 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 + FRC & 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.

- + 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
- + WPPS

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

1410 | 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.

1425 | 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.

Subsea Engineering Training Manual

Mark Steyvers



Subsea Engineering Training Manual:

The Top Books of the Year Subsea Engineering Training Manual The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Subsea Engineering Training Manual : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Subsea Engineering Training Manual : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://movement.livewellcolorado.org/results/Resources/default.aspx/the%20scootdawg%20complete%20owners%20manual.pdf>

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