

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 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 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 80" 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.

0915 → Total 80% 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 + 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.

- 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
- WPPS

• 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.

Subsea Engineering Training Manual

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product guide SUMMER 2008 , Advances in Material Sciences and Engineering Mokhtar Awang, Seyed Sattar Emamian, Farazila Yusof, 2019-09-19 This book presents selected papers from the 4th International Conference on Mechanical Manufacturing and Plant Engineering ICMMPPE 2018 which was held in Melaka Malaysia from the 14th to the 15th of November 2018 The proceedings discuss genuine problems concerning joining technologies that are at the heart of various manufacturing sectors In addition they present the outcomes of experimental and numerical works addressing current problems in soldering arc welding and solid state joining technologies

The ROV Manual Robert D Christ, Robert L. Wernli Sr, 2013-10-16 Written by two well known experts in the field with input from a broad network of industry specialists The ROV Manual Second Edition provides a complete training and reference guide to the use of observation class ROVs for surveying inspection and research purposes This new edition has been thoroughly revised and substantially expanded with nine new chapters increased coverage of mid sized ROVs and extensive information on subsystems and enabling technologies Useful tips are included throughout to guide users in gaining the maximum benefit from ROV technology in deep water applications Intended for marine and offshore engineers and technicians using ROVs The ROV Manual Second Edition is also suitable for use by ROV designers and project managers in client companies making use of ROV technology A complete user guide to observation class ROV remotely operated vehicle technology and underwater deployment for industrial commercial scientific and recreational tasks Substantially expanded with nine new chapters and a new five part structure separating information on the industry the vehicle payload sensors and other aspects Packed with hard won insights and advice to help you achieve mission results quickly and efficiently

HP-41CV Applied Drilling Engineering Manual Martin E. Chenevert, Frank Williams, Hampo Hekimian, 1983

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 Drilling Fluids Processing Handbook ASME Shale Shaker ASME Shale Shaker Committee,2011-03-15

Written by the Shale Shaker Committee of the American Society of Mechanical Engineers originally of the American Association of Drilling Engineers the authors of this book are some of the most well respected names in the world for drilling The first edition Shale Shakers and Drilling Fluid Systems was only on shale shakers a very important piece of machinery on a drilling rig that removes drill cuttings The original book has been much expanded to include many other aspects of drilling solids control including chapters on drilling fluids cut point curves mud cleaners and many other pieces of equipment that were not covered in the original book Written by a team of more than 20 of the world s foremost drilling experts from such companies as Shell Conoco Amoco and BP There has never been a book that pulls together such a vast array of materials and depth of topic coverage in the area of drilling fluids Covers quickly changing technology that updates the drilling engineer on all of the latest equipment fluids and techniques **Universal Well Control** Gerald Raabe,C. Scott Jortner,2021-11-03

Universal Well Control gives today s drilling and production engineers a modern guide to effectively and responsibly manage rig operations In a post Macondo industry well control continues to require higher drilling costs a waste of natural resources and the possibility of a loss of human life when kicks and blowouts occur The book delivers updated photos practice examples and methods that are critical to modern well control information ensuring engineers and personnel stay safe environmentally responsible and effective Complete with all phases of well control the book covers kick detection kick control loss of control and blowout containment and killing A quick tips section is included along with templated step by step methods to replicate for non routine shut in methods Bonus equipment animations are included along with a high number of visuals Specialized methods are covered including dual gradient drilling and managed pressure drilling Provides a practical training guide that is focused on well control including expanded subsea coverage Includes well kill procedures with added kill sheets and bonus video equipment animations Helps readers understand templated steps for non routine shut in methods such as the lubricate and bleed method and variable mud volume **Offshore Oil & Gas Rigs JOB INTERVIEW** Petrogav International Oil & Gas Training Center,2020-07-01

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 272 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Deep Diving and*

Submarine Operations Sir Robert Henry Davis,1995 **Patty's Toxicology, 6 Volume Set** Eula Bingham,Barbara Cohrssen,2012-07-31 Featuring the improved format used in the 5th edition this updated set presents in logical groupings comprehensive toxicological data for industrial compounds including CAS numbers physical and chemical properties exposure limits and biological tolerance values for occupational exposures making it essential for toxicologists and industrial hygienists This edition has about 40% new authors who have brought a new and international perspective to interpreting industrial toxicology and discusses new subjects such as nanotechnology flavorings and the food industry reactive chemical control to comprehensive chemical policy metalworking fluids and pharmaceuticals Well Control for Completions and Interventions Howard Crumpton,2018-04-04 Well Control for Completions and Interventions explores the standards that ensure safe and efficient production flow well integrity and well control for oil rigs 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

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1977 Training for job interview Offshore Drilling Platforms 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 273 questions and answer for job interview and as a BONUS 150 links to video movies and web addresses to 205 ecruitment companies where you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *100 questions and answers for job interview Offshore Drilling Platforms* PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you ll see a general prognosis of the drilling process If you are new to the oil gas industry you ll enjoy having a leg up with the knowledge of

these processes If you are a seasoned oil gas person you ll enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations

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 you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Job interview questions and answers for**

employment on Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 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 289 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Subsea Engineering Handbook Yong Bai,Qiang Bai,2012-01-25 Designing and building structures that will withstand the unique challenges that exist in Subsea operations is no easy task As deepwater wells are drilled to greater depths engineers are confronted with a new set problems such as water depth weather conditions ocean currents equipment reliability and well accessibility to name just a few A definitive reference for engineers designing analyzing and instilling offshore structures Subsea Structural Engineering Handbook provides an expert guide to the key processes technologies and equipment that comprise contemporary offshore structures Written in a clear and easy to understand language the book is based on the authors 30 years of experience in the design analysis and instillation of offshore structures This book answers the above mentioned crucial questions as well as covers the entire spectrum of subjects in the discipline from route selection and planning to design construction installation materials and corrosion

inspection welding repair risk assessment and applicable design solutions It yields a roadmap not only for the subsea engineer but also the project managers estimators and regulatory personnel hoping to gain an appreciation of the overall issues and directed approaches to subsea engineering design solutions Up to date technical overview of deepwater riser engineering Easy to understand Coverage of design analysis and stallation Addresses issues concerning both fixed and floating platforms Covers techincal equipment such as Subsea Control Systems Pressure Piping Connectors and Equipment Layout as well as Remotely operated vehicles Pipeline Risk Management Manual W. Kent Muhlbauer,2004-01-24 Here s the ideal tool if you re looking for a flexible straightforward analysis system for your everyday design and operations decisions This new third edition includes sections on stations geographical information systems absolute versus relative risks and the latest regulatory developments From design to day to day operations and maintenance this unique volume covers every facet of pipeline risk management arguably the most important definitely the most hotly debated aspect of pipelining today Now expanded and updated this widely accepted standard reference guides you in managing the risks involved in pipeline operations You ll also find ways to create a resource allocation model by linking risk with cost and customize the risk assessment technique to your specific requirements The clear step by step instructions and more than 50 examples make it easy This edition has been expanded to include offshore pipelines and distribution system pipelines as well as cross country liquid and gas transmission pipelines The only comprehensive manual for pipeline risk management Updated material on stations geographical information systems absolute versus relative risks and the latest regulatory developments Set the standards for global pipeline risk management **Oil and Gas Development and Coastal Zone Management, Hearings Before the National Ocean Policy Study Of..., 93-2, Apr. 23, 24, 25; May 2, & 22, 1974** United States. Congress. Senate. Committee on Commerce,1974 **Employment on Offshore Drilling Rigs COMPLETE COURSE** Petrogav International Oil & Gas Training Center,2020-07-02 This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry 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 As a BONUS this eBook contains web addresses to 306 video movies for a better understanding of the technological process and 204 web addresses to recruitment companies where you may apply for a job

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