

PFE 101 | PETROLEUM SUBSURFACE ENGINEERING FOR NON-PETROLEUM ENGINEERS

Fee : Malaysian RM 1750
International EURO 750



Course OBJECTIVES

At the end of this course, the students will be able to:

- Describe with the overall petroleum engineering activities
- Explain the general workflow of petroleum engineering activities from exploration to consumer products
- Identify the scope of work for every discipline.
- Explain the overall flow of the work processes and the key personnel involved in the job execution
- Explain piping design activities impact to the overall petroleum engineering activities

Course CONTENTS

Introduction to petroleum industry, Field Life Cycle; Exploring for oil and gas; Hydrocarbon origins and accumulations; Well logging; Reservoir geology; Drilling Systems; Drilling Operations; Well Planning; Well Control; Casing and Cementing; Well Completion; Fundamentals of Reservoir Engineering; Reservoir Rocks; Concepts of Permeability, Porosity and Saturation; Reservoir Fluid Properties; Fluid Sampling and PVT Analysis; Coring and Core Analysis; Volumetric (Reserves) Estimation; Deterministic Methods; Inputs to Volumetric Estimates; Reservoir Dynamic Behaviour; Reservoir Drive Mechanism; Fluid Displacement; Prediction Methods; Reservoir Modeling and Simulation; Development of a finite difference model; Derivation of governing equations and discretisation to obtain various difference schemes; Different approaches in generating the coefficient matrices; Errors in finite difference schemes; Matrix Solvers; Errors in Data Handling; History Matching; EOR - Recovering the remaining Oil; Thermal techniques; Chemical Techniques; Miscible Processes; Microbial Processes and others; Well Testing; Petroleum Production System; Petroleum Facilities Operation; Gas Lift System; Offshore Petroleum Facilities; Gas Production Facilities; Land and offshore production facilities; Crude oil Terminal and Storage Tanks; Transportation System; Visit Petrosience Petronas (KLCC)

Course TUTOR

Mr Azdi Abass | He graduated from Texas A&M, USA in Petroleum Engineering is specialized in Petroleum Facilities Engineering. Involved in mega offshore project development including deepwater facilities such as Angsi development Project (Malaysia), Cakerawala Development Project (Malaysia/Thailand JV), East Area Project (Nigeria), Chunxiou Development Project (China) and Kikeh deepwater Project (Malaysia) . Experience in design, fabrication, construction and modification activities. Hold various key positions in the offshore development projects such as Lead Piping Design and Plant Layout Engineer, Pipe Stress Engineer, Lead PDMS designer, PDMS Administrator, Lead QA/QC Engineer and Project Engineer. The Founder of Octagon Petroleum Technology and Managing Director of the company which provides education and training consultancy to industry and universities in Malaysia. Appointed as Deputy Chairman for Brunei National Advisory Committee (NPAC) for session 2002/5. Currently, appointed as one of Oil and Gas Advisory Board for Department of Skill Development (JPPK) under Ministry of Human Resource, Malaysia.

REPLY FORM

Name 1& Job Title : _____

Name 2& Job Title : _____

Company Information

Company Address : _____

Tel _____ Fax _____

Method of payment

Please kindly complete and return the reply form together with

By cheque / Bank draft which are made payable to OCTAGON PETROLEUM TECHNOLOGY SDN. BHD.

Please instruct your bank to remit us the full amount net of bank charges

Acct No: 62038-0-01-001554-1
Bank: Alliance Bank Bhd
Branch: Kajang

Cancellation & substitutions

A full refund will be promptly made for all written cancellations 2 weeks before the meeting. 50% refund will be made for written cancellations received 7 days before the meeting. A substitute may be made at any time.

Note

a) The organiser has the right to make any amendments that they deem to be in the best interest of the course and to cancel the course if insufficient registrations are received a week before course commencement date .

b) **CERTIFICATE OF ATTENDANCE** will be awarded at the end of the course.

Enquiries |

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