

BASIC DRILLING, COMPLETION AND WORKOVER

2 - 4 Sept 2015 / Jakarta, Indonesia

Duration : 3 days



WHO SHOULD ATTEND?

This course has been designed for a broad audience: technical and non-technical new entrants into Oil & Gas industry, junior level engineering staff, non-engineering and non-technical staff, and managers looking to broaden their E&P knowledge of other departments and companies within the Oil Industry.



INSTRUCTOR :

Mr. RICHARD LAU

is currently a Training Consultant for the Upstream Oil & Gas Industry. Richard was formally a Senior

Lecture with The Petroleum Institute in Abu Dhabi, UAE. He also directed the Summer Internship program for Petroleum Engineers and was Academic Advisor for the Petroleum Engineering Department. His oil field experience includes 9 years as General Field Engineer for Schlumberger Wireline in California and South America. He progressed through a series of hands-on international positions from Field Engineer, Senior Field Engineer, General Field Engineer, Sales Engineer, Engineer Instructor and Manager.

ABOUT COURSE

This 3-day Basic Drilling, Completion, and Workover course will give participants an understanding of the processes involved in drilling, completing and workover work of oil and gas wells. It is intended for individuals who will be working closely with drilling departments, production departments and reservoir departments within their companies. Topics covered include well construction, well design, well control, well execution, overview of reservoir concepts, performance predictions, typical completions, typical production operations, workover methodologies, types of rigs, and safety regulations.

At the end of this course you will:

- Have an overview of the Drilling, Completion and Workover phases of Oil and Gas Wells.
- Be able to understand basic industry practices and principles in drilling a well, types of equipment used, well design, well control and well construction.
- Become familiar with completion techniques, reservoir concepts, performance predictions, completion equipment and safety procedures.
- Be able to understand the role a workover rig plays in maintaining well productivity, by being introduced to various well interventions and monitoring equipment.
- Be aware of the major HSE risks within the drilling, completion and workover segments of the E&P Industry.

FEE	1 PAX	3 PAX OR MORE
Per Person	USD 3095.00	USD 2795.00
<p>Early bird discount Pay Online with Credit Card by 30th March to SAVE USD 300.00 per person</p>		



FOR ENQUIRIES

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COURSE CONTENT

DAY 1

Well Construction Overview

- Where drilling fits in the E&P process
- What information is required and available from well construction group
- Roles and responsibilities of the wellsite and office drilling team
- Different rig types and main equipment used in well construction

Well Design Overview

- The well planning/design process including data inputs e.g. Pore Pressure, Frac Gradient, rock mechanics, lithology and completion requirements
- Typical time line for well planning/design and long lead items e.g. rig selection, tubulars and well heads Well timing, costs, risks and AFE generation
- Impact of surface constraints in well design e.g. existing wells on pad, anti-collision requirements
- Drilling fluid selection including drilling performance, environmental constraints and formation damage
- Basic Casing and Cementing
- Directional Drilling and Deviation Control

Well Control

- Kicks
- BOPs, wireline pressure control equipment, Christmas trees

Well Execution and Operations

- Casing, logging, cementing, and completions
- Problems: stuck pipe, kicks, wellbore instability, lost circulation, fishing
- Operational risks e.g. Rig equipment failures and potential consequences

Real-time operations

Review of Day and Workshop Examples

DAY 2

Overview of Reservoir concepts

- Geology and Production
- Rock Properties
- Fluid Properties
- Reservoir Driving Mechanisms Damage

Performance Prediction:

- Well Testing
- Nodal Analysis
- Nodal Analysis exercises

Typical Upper Completion:

- Casing and Tubing Selection
- Packers
- Wellheads and Xmas trees
- Accessories
- Safety Valves
- Running Completions
- Artificial Lift
- Multilaterals

Typical Lower Completions:

- Introduction to Sand Control
- Gravel Pack Design
- Perforations

Production Operations:

- Stimulation
- Acidizing, Fracturing
- Surface Facilities
- Production Logging

Review of Day and Workshop Examples

DAY 3

Morning Session

- Workover and completion methodology
- Risk management
- Well problems and well control
- Cement bond logs
- Perforating
- Sand control management
- Cement squeezing - workover
- Acidizing - workover

Afternoon Session

- Workover Rigs
- Coiled tubing
- Fishing
- Completion management
- Cased Hole operations Artificial Lift systems

Review and Final Exam



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