

## Introduction to Oil & Gas Exploration & Production For New Engineers & Non-Technical Professionals

Comprehensive overview of the entire value chain and process of  
Oil & Gas Upstream Operations and Business

18 -19 July 2011, Kuala Lumpur



### FRANZ HARTSTEIN

International industry veteran with over 30 years of  
field and business experience in upstream Oil & Gas

"This course is recommended for those who are new to the oil and gas  
industry and held in industries the basics for exploration and  
production of oil and gas".

- Petronas

"This course provide me with a good introduction especially on the  
upstream activities".

"Very knowledgeable and perhaps gives an in-depth understanding".

- Petronas Carigali

Explore the multi-disciplinary nature of Oil & Gas exploration by examining the process, technology and  
technical terminology used during the exploration and production operations in an upstream business.

By attending this 2-day industry fundamentals training course, you will better able to:

- Appreciate the dynamics of world energy demand & supply and its impact on pricing
- Understand the formation of petroleum reservoirs and basic geological considerations
- Examine the exploration process to gain an overview of the technical processes involved
- Gain a comprehensive overview of drilling activities - from pre-drilling preparation, through to well drilling, well evaluations and post drilling activities
- Get familiarised with the common production methods and the different stages of its processes
- Integrate your understanding of asset maintenance and downstream supply chain activities
- Better visualise through video presentations the various exploration equipment/ technologies and understand the major cost components

UNIQUE FEATURES of this training course:

- Multi-media presentation methodology to enable better understanding and appreciation technical jargon and equipment applied in the field
- A pre-course questionnaire to help us focus on your key learning objectives
- Detailed reference manual for continuous learning and sharing
- Limited class size to ensure one to one interactivity

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# Introduction to Exploration & Production for New Engineers and Non-technical Professionals

## Why attend this training course?

As exploration and production activities in Asia continue to grow, new engineers and supporting professionals like yourself must grasp the language and technology of exploration and production. Exploration and production technology, equipment specification and processes have a unique language that must be conquered by executives such as you. A confident understanding of the technical jargon used and a visual appreciation of the various pieces of exploration equipment provides an overall knowledge of the “big picture” of exploration and production. This serves as an excellent foundation for smooth communication and increased efficiency in inter-department project team efforts.

## Ask Yourself:

- How do all the various exploration, drilling, production activities fit together and what part do I play in my role within the total chain of these activities?
- What do these complicated engineering and technological jargon terms actually mean?
- What questions can I ask my engineering peers to gain a better understanding of their circumstances and provide better support during their exploration and production phase?
- What happens if something goes wrong during the exploration or drilling phase, how will it affect me and how can I best help?

## Course Agenda

### Day One

09.00	Introduction and Objectives <b>Video – The Petroleum Industry</b>
09.30	History of hydrocarbon exploitation. <ul style="list-style-type: none"><li>▪ Early history of oil and gas exploitation.</li><li>▪ History of exploration, Malaysia,</li><li>▪ The Origins of Oil and Gas, Continental Drift</li></ul>
10.30	Break
10.45	Basic petroleum geology, formation of oil and gas. <ul style="list-style-type: none"><li>▪ Porosity, Reservoirs and traps.</li><li>▪ Reservoir properties, classification of reservoirs.</li><li>▪ Distribution of Reserves</li></ul>
11.30	World energy demand and supply <ul style="list-style-type: none"><li>▪ Oil and Gas pricing</li><li>▪ Ownership of hydrocarbons</li><li>▪ Concessions, contracts and joint ventures.</li></ul>
<b>12.00</b>	<b>Lunch</b>
13.30	The Field Life Cycle <ul style="list-style-type: none"><li>▪ <b>Video – Oil and Gas Offshore</b></li><li>▪ Exploration, Appraisal, Develop and Abandon.</li></ul>
14.30	Shooting and interpreting seismic surveys. <ul style="list-style-type: none"><li>• 2D, 3D, 4D &amp; 4C</li></ul>
15.15	Break
15.30	Getting ready to drill the well. <ul style="list-style-type: none"><li>• Identify land and offshore rigs.</li><li>• <b>Video – platform installation</b></li><li>• The rig, its components and how they work.</li><li>• Derrick, Substructure, Power, BOP</li><li>• The Drill Bit, Circulation System, Mud, Fishing</li><li>• <b>Video - fishing</b></li></ul>

### Day One Close

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09.00	<b>Video – Exploring the Ocean.</b> <ul style="list-style-type: none"><li>▪ The drilling stages. Drilling Crew</li><li>▪ Running casing and primary cementing</li><li>▪ Logging and evaluating</li></ul>
10.30	Break
10.45	Well completions, Completion Techniques. Introduction to coiled tubing. workovers <b>Video - coiled tubing</b>
11.30	Well profiles: <ul style="list-style-type: none"><li>▪ Deviated, Directional wells,</li><li>▪ Horizontal, Extended Reach,</li><li>▪ Multilateral and Intelligent Wells.</li></ul>
<b>12.00</b>	<b>Lunch</b>
13.30	Development. <b>Video – Development and production</b> <ul style="list-style-type: none"><li>▪ Marine/Offshore</li><li>▪ Complexity and impact of ECCP</li><li>▪ Offshore production systems</li></ul> <b>Video – Launch of a Jacket.</b> <ul style="list-style-type: none"><li>▪ Steel Jackets, Gravity based structures.</li><li>▪ Compliant towers,</li><li>▪ Tension Leg Platforms,</li><li>▪ Spar Platforms.</li></ul>
14.45	Floating production systems, <ul style="list-style-type: none"><li>▪ FPSO's, FSO's,</li><li>▪ Sub-surface facilities.</li></ul> <b>Video – Producing the formation.</b> Production operations, personnel. Primary and second recovery. Artificial lift Pipelines, Umbilicals, Risers and Downers
<b>15:13</b>	<b>Break</b>
15:30	Maintenance: <ul style="list-style-type: none"><li>▪ Structures and facilities.</li><li>▪ Platform maintenance.</li></ul> Sub-sea inspection and maintenance <b>Video – underwater work.</b> Corrosion prevention and corrosion coating. Pipelines – Coating and Protection.  <b>Video – Transportation of oil and gas.</b> Petroleum Storage and Transport, <ul style="list-style-type: none"><li>• Personnel and material</li></ul> <b>Video - Transportation</b> <ul style="list-style-type: none"><li>• Logistics, Warehousing.</li></ul>
16.30	Refining of Crude Oil <b>Video-Refining Operations</b> Products from Petroleum
16.45	Course summary Questions and answers
<b>17.00</b>	<b>Day Two Close</b>

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THE REGION'S MOST  
ESTABLISHED COURSE,  
OVER 500 PARTICIPANTS  
TRAINED TO-DATE!

## Who Should Attend

- Accounting • Administration • Business Development • Commercial • Drilling Fluids • E&P IT
- Estimation & Proposal • Finance and Administration • Finance • Reservoir • HSE •
- General Management • HSE • Joint Ventures • Legal • Logistics • Materials Planning •
- Planning & Budgeting • Procurement • Sourcing • Supply Chain • Tender/ Contract • Training

## About your expert facilitator: Franz Hartstein



Franz Hartstein gained his 30 year experience in the Oil & Gas Drilling industry around on-shore and offshore facilities in Australia, the North Sea, Middle East, USA, Europe & Asia. He has experience in nearly every position around the rig, including; roustabout, roughneck, derrick man, assistant driller, barge captain.

As a Drilling Engineer since 1967, Franz is thoroughly familiar with the drilling operations. He has sound understanding of the engineering principles involved and has gained substantial hands-on knowledge of related well services. After studying Drilling Engineering at the Deutsche Bohrmeisterschule, Celle, Germany, he went on to work as an engineer in Europe, the Middle and Far East, for Weatherford, Agip, Nioc, Siri in Iran, Aramco in Saudi Arabia, Adnoc, Conoco being some of the clients.

Gravitating towards the Oil & Gas service side, he spent time on business development for Weatherford in the USA, and transferred to Singapore as M.D. for Weatherford in Asia. As MD for Weatherford, he was responsible for all aspects of Company management, business development, training, customer relations and client consulting. Franz then became a partner in Borneo Oil Tools Pte Ltd in Singapore. He was responsible for the operation, business development and expansion of the company within the Industry. The company was an agent representing various products for the Oil & Gas clients. He was also involved in the design of completion tools, fabricating equipment and operating the equipment on clients rigs around Asia. He was also responsible in designing & development of the training and introduction manual for technical products. He personally delivered the training to various Oil & Gas personnel in the region, including Conoco, Philips, Total, Arco, Amerada Hess, Mobil.

With more than 30 years in the upstream Oil & Gas industry, he is familiar with the entire phase of exploration and production, with global experience including, Middle East, USA, Europe & Asia. He has gained unique global insights into the teaching fundamentals of exploration and production through numerous presentations to various Oil & Gas companies globally.

## Testimonials from individual organisations:

- **Good overview of the oil & gas industry**  
*PETRONAS CarigaliSdn Bhd*
- **Good knowledge transfer of the oil & gas industry / activities to a non-technical newbie**  
*Singapore Petroleum Company Limited*
- **Very informative**  
*Murphy Oil Sabah Ltd*
- **Good, informative and mind opening**  
*Murphy Oil Sabah Ltd*
- **Its an excellent course for non-technicals**  
*Petronas Carigali Sdn Bhd*
- **Value for money!**  
*Talisman Malaysia Limited*
- **I had a very interesting experience understanding O&G; especially by the way it was delivered by trainer**  
*Murphy Oil Ltd*
- **Informative, impressive material**  
*CPOC*
- **Very informative with excellent presentations materials and video presentation. Fantastic!**  
*UMW Standard Drilling Sdn Bhd*

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# REGISTRATION FORM

## REGISTRATION FORM

<b>Introduction to E&amp;P for New Engineers and Non-Technical Professionals 18 – 19 July 2011</b>	<b>Early Bird Price</b>	<b>Normal Price</b>	<b>TEAM DISCOUNTS</b>  PetroEdge recognises the value of leaning in teams. Group bookings at the same time from the same company receive the following:  3 or more at 5% off 5 or more at 7% off 8 or more at 10% off
2- day Introduction to Oil & Gas Exploration & Production for New Engineers & Non-Technical Professionals	<b>SG\$ 2,349</b>	<b>SG\$ 2,549</b>	
<b>PetroEdge In-house Training</b>  { } Yes, I would like to organise this training on-site and save over 30% of total course fees! For further information about On-site Solutions, please call +65 67416968 or email info@asiaedge.net			<b>Team discounts are exclusive of Early Bird discounts or other promotions.</b>

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Mr · Mrs · Ms · Dr · Other ·

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Job Title: \_\_\_\_\_

Department: \_\_\_\_\_

**Delegate 2:** \_\_\_\_\_  
Mr · Mrs · Ms · Dr · Other ·

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Job Title: \_\_\_\_\_

Department: \_\_\_\_\_

**Head of Department:** \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Country: \_\_\_\_\_

Postcode: \_\_\_\_\_

Attention Invoice to: \_\_\_\_\_

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Please note:

- indicate if you have already registered by Phone · Fax · Email · Web ·
- if you have not received an acknowledgement before the training course, please call us to confirm your booking.
- photocopy this form to register multiple delegates.

### Payment Methods

**By Cheque/ Bank Draft: Make Payable to Asia Edge Pte. Ltd.  
By Direct Transfer: Please quote AE1 with the remittance advise**  
Account Name: **Asia Edge Pte. Ltd.**

Bank Number: 508 Account Number: 762903-001Swift Code: **OCBCSGSG**  
All bank charges to be borne by payer. Please ensure that Asia Edge Pte Ltd receive the full invoiced amount.

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