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DEEPWATER DRILLING OPERATIONS

28 February – 3 March 2011, Kuala Lumpur, Malaysia



Pierre E. Aubé, 38 years of experience in the Offshore Drilling Industry with International Drilling Contractors (Foramer and Pride International)

Gained extensive operational expertise through numerous projects and operations with Dynamic Positioning Drill Ships and Semi Submersibles worldwide (Labrador, West Africa, Far East, Europe, South Africa) on behalf of major Operators.

www.petroedgeasia.net

Deepwater Drilling Operations
with Pierre E. Aubé

Course Description
This 4-day training course will describe the different types of deepwater drilling units, all their necessary specific equipment and techniques to spud a well ranging from 1000 to 10,000 feet. The goal being to transmit to all participants the key technology and operational challenges with sufficient depth of knowledge on:

- Floating drilling rigs (SS / DPDS) and their specific equipment for drilling a wells in deep water depth zones.
- Techniques and methods deployed from the arrival of a floating drilling units on a location till the cementation of the conductor casing
- Major issues and solutions faced in deepwater drilling operations
- The environmental forces and their impacts on deepwater operations

Course Modules in Summary
- FLOATING DRILLING VESSELS
- VESSEL STABILITY
- MOORING SYSTEMS
- DYNAMIC POSITIONING SYSTEMS
- OPEN WATER OPERATIONS
- DRILLING RISERS
- BLOW OUT PREVENTER (BOP)
- SUBSEA WELLHEADS / CASING OPERATIONS
- EMERGENCY DISCONNECT
- WELL ABANDONMENT

By attending this 4 day intensive training course, course participants will learn:
- What is a Semi Submersible (SS) and a Dynamically Positioned Drillship (DPDS) with their advantages and disadvantages
- The description and functioning of all specific equipment deployed in deepwater operations either on the floating rig or subsea (Riser, BOP, Wellheads, Tensioners etc.)
- The different station keeping methods for maintaining a floating drilling vessel on location (mooring, dynamic positioning)
- The environmental forces and their impact
- The operating procedure from the arrival of a rig on a location till cementation of the conductor casing in place and the main major issues and solutions which may be encountered.

Target Audience
This course is addressed to all Companies and Individuals involved directly or indirectly in Deepwater Operations:

➢ **Operators :**

Drilling engineers, (Junior) Company Representatives, New entrants into deepwater drilling activity

➢ **Drilling Contractor personnel involved in:**

Drilling, Marine, Maintenance, Supervision and Management

➢ **Service Companies:**

Management and Team Leaders

Sessions will commence at 9am on all days with short intervals at 10.30 am and 3.30pm respectively. Lunch will be provided at 12.30 for one hour. Session will end at 5pm on all days

In-house Training Solutions
PetroEdge has a consistent track record of delivering successful customised learning solutions that have achieved real and measurable value for our clients across a wide range of learning and development needs. Our programs are delivered when and where you want them and we will work in partnership with you to design and deliver the solution that best fits your culture, learning style and ways of working.

If you would like further information regarding our in-house training, please contact us at +65 6741 9927, visit www.petroedgeasia.net or email info@asiaedge.net

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4 Day Course Outline in Detail

Welcome and Introduction

Module 1: FLOATING PRODUCTION UNITS
- HISTORIC
- SEMI SUBMERSIBLES AND DP DRILLSHIPS
- ENVIRONMENT
- RIG MOTIONS
- STORAGE AND HANDLING SYSTEMS
- RIG INSPECTION AND SELECTION
- MARINE SUPPORT VESSELS

Module 2: VESSEL STABILITY
- STABILITY THEORY
- STABILITY CALCULATIONS
- STABILITY AT LARGE ANGLES OF INCLINATION
- BALLAST CONTROL
- DAMAGE FLOODING COUNTERMEASURES

Module 3: MOORING SYSTEMS
- OVERVIEW
- MOORING PRINCIPLES
- SPREAD MOORING SYSTEMS
- MOORING HARDWARE
- MOORING DESIGN AND ANALYSIS
- ANCHOR HANDLING VESSELS (AHV)
- MOORING DEPLOYMENT
- ANCHOR RECOVERY
- SPECIAL OPERATIONS & NEW TECHNOLOGY

Module 4: DYNAMIC POSITIONING OPERATIONS
- OVERVIEW
- DYNAMIC POSITIONING SYSTEM
- POSITION REFERENCE SYSTEMS
- THRUSTERS
- POWER SYSTEMS
- DP SYSTEM RELIABILITY
- OPERATIONS
- DRIVE OFF/DRIFT ANALYSIS

Module 5: OPEN WATER OPERATIONS
- REMOTELY OPERATED VECHILES (ROVS)
- SUBSEA WELLHEAD COMPONENTS
- STRUCTURAL CASING
- CONDUCTOR CASING
- OTHER CONSIDERATIONS

Module 6: RISER SYSTEMS
- OVERVIEW
- RISER SYSTEM COMPONENTS
- DRILLING RISER
- RISER CONNECTORS
- CHOKE AND KILL LINES, AUXILIARY LINES
- BUOYANCY
- TELESCOPING (SLIP) JOINT
- RISER TENSIONERS
- BALL/FLEX JOINTS
- DIVERTER ASSEMBLY
- RISER ANALYSIS
- RISER TENSIONING CRITERIA
- EMERGENCY DISCONNECT & HANG-OFF
- HIGH CURRENT OPERATIONS

Module 7: SUBSEA WELLHEADS & CASING OPERATIONS
- Equipment and Tool Description
- Casing Operations
- Cementing Equipment and Operations
- Other Special Operations

Module 8: BOP EQUIPMENT
- OVERVIEW
- WELLHEAD & LMRP CONNECTORS
- RAM PREVENTERS
- ANNULAR PREVENTERS
- CHOKE AND KILL LINE VALVES
- FLEXIBLE CHOKE & KILL LINES
- LOWER MARINE RISER PACKAGE (LMRP)
- HOSE BUNDLE, HOSE REEL & RIGID CONDUIT
- CONTROL SYSTEMS
- MULTIPLEX CONTROL SYSTEM
- BOP CONTROL POD
- BACKUP SYSTEMS
- BOP STACK TESTING

Module 9: EMERGENCY DISCONNECT
- OVERVIEW
- ALARMS
- SEQUENCING AND TIMING
- SPACEOUT and DRILLPIPE HANGOFF
- OPERATING PROCEDURES
- EMERGENCY DISCONNECT SEQUENCE
- MOTION COMPENSATION
- WELLBORE REENTRY

Module 10: WELL ABANDONMENT
- INTRODUCTION
- ABANDONMENT REGULATIONS
- CURRENT GUIDELINES
- ISOLATING ZONES IN OPEN HOLE
- ISOLATING THE OPEN HOLE AT CASING SHOE
- PLUGGING ACROSS LINER TOPS
- PLUGGING OF ANNULAR SPACES
- SURFACE PLUGS
- SUBSEA WELLHEAD REMOVAL
- GUIDEBASE REMOVAL
- WELL ABANDONMENT

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4 Day Course Timetable

	Day 1	Day 2	Day 3	Day 4
	Module 1&2	Module 3&4	Module 6/8/9	Module 5/7/10
09:00 09:30	Overview	Mooring Systems	Riser System	Open water Operations
10:00	Break	Break	Break	Break
10:30 11:00 11:30	SS & DPDS Environment	Mooring Systems	Riser System BOP	Open water Operations
12:00 12:30	Lunch	Lunch	Lunch	Lunch
13:00 13:30 14:00	Rig motions Handling Equipt	Mooring Systems Dynamic Positioning	BOP	Subsea Wellhead
14:30	Break	Break	Break	Break
15:00 15:30 16:00 16:30 17:00	Marine Support Vesse Vessel Stability	Dynamic Positioning	BOP Emergency Disconnect	Casing Operations well Abandon

About Your Expert Instructor : Pierre AUBE



Pierre E. Aubé, 38 years of experience in the Offshore Drilling Industry with International Drilling Contractors (Foramer and Pride International) at senior drilling and management positions. He has gained an extensive operational expertise through numerous projects and operations with Dynamic Positioning Drill ships and semisubmersibles worldwide (Labrador, West Africa, Far East, Europe, South Africa) on behalf of major Operators.

Practical Experience in Deep water Drilling Operations

Dynamically Positioned Drill Ships

Rig Name: PELICAN Gusto Pelican Class
Client : TOTAL, Position : Head of Mission - Worldwide
During 5 years : Debugging of the brand new DP Drill Ship PELICAN in Labrador and start of a Worldwide campaign (Labrador/ Europe / West Africa / Atlantic) during 5 years

Rig Name: PELERIN Gusto Pelican Class
Client : SHELL, Position: Head of Mission - Indian Ocean
During one year Head of mission on behalf of the Contractor. The contract for Shell was one of the first contract to develop the SHELL concept of " Drilling in the nineties". Operations were done in the Indian Ocean and offshore Philippines.

Moored Drilling Semi Submersibles

Rig Name : ASTERIE Pentagon
Client: SHELL / ELF M Position: Operations Manager - Spain / Portugal / Italia
During 2 years in charge of the management of this pentagon type Semi Submersible in Spain, Portugal and Italia

Rig Name : SOUTH SEA DRILLER Gusto Pelican Class Friede & GoldmanEnhanced Pacesetter
Clients : Mossgas / Soekor
Position: Operations Manager - South Africa
During 2 years in charge of the operations of these units offshore South Africa. Drilling of exploration and production wells

Dynamic Positioning Semi Submersible

Rig under construction: AMETHYST Class
Participation in the supervision of the construction of this unit in Netherlands as Project Manager on behalf of FORAMER

Anchored Drillships

Rig Name: ASTRAGALE
Client: ELF, West Africa
During 3 years in charge of this Unit drilling offshore Congo for the drilling of exploration wells

Rig Name: SHILOH
Client: AGIP, West Africa
During one year in charge in charge of the contract management of this unit for drilling a relief well.

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REGISTRATION FORM

Kuala Lumpur, Malaysia	Early Bird Price	√	Normal Price	√	
Deepwater Drilling Operations Training Course: 4 Days	**S$ 2999**		**S$ 3199**		**TEAM DISOUNTS** 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 of more at 10% All other promotions including early bird is exclusive of the group discount.
PetroEdge In-house Training { } Yes, I would like to organise this training on-site and save over 20% of total course fees! For further information about in-house training, please call +65 67419927 or email info@asiaedge.net					

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_____

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Job Title: _____

Department: _____

Email: _____

Mr ☐Mrs ☐Ms ☐Dr ☐Other ☐

Delegate 2:

_____

Telephone: _____

Email: _____

Job Title: _____

Department: _____

Head of Department: _____

Company: _____

Address: _____

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Country: _____

Postcode: _____

Attention Invoice to: _____

Telephone: _____

Fax: _____

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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