Wellhead Control System
Familiarize with wellhead control system components
27th - 31st July 2015, Kuala Lumpur, Malaysia

Petrosync Distinguished Instructor
Magdi Taha El Naggar
Managing Director
Oil Fields Global Consultants (OFGC)
- Over 39 years dedicated outstanding service in oil and gas field with excellent HSE record
- Officially certified & registered as Professional Petroleum Engineering Consultant (License 116/7)
- Extensive training capabilities, currently joint venturing with several major professional international training institutes and conducting several training at Singapore, Malaysia, Vietnam, Indonesia, Egypt etc

Course Objectives
- UNDERSTAND the well operations
- UNDERSTAND the wellhead components and wellhead concepts
- GAIN the knowledge of the hazardous area classification around the wellhead
- UNDERSTAND the operational principles of the wellhead control system
- ENSURE proper understanding of the operating logic of the system and wellhead control system response during normal and emergency cases
- POSSESS the basic skills to monitor & optimize the operation of the system
- FAMILIARIZE with the P&ID schematic of the system

Specially Designed for
This course is specifically designed for, but not limited to employees in the oil and gas industry who holds the following roles:
- Production Operations Staff
- Maintenance Staff (Instrument, Mechanical)
- Production Process Staff
- Well Integrity Management Staff
- Drilling Staff
- Completion Engineers
- Production Engineers
- Pipeline Engineers
- Well Site Engineers
- Rig Staff

HYBRID TRAINING SOLUTIONS
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This course is designed to provide the fundamental knowledge and technical information regarding the operating principles and functions of the wellhead control system. It also ensures effective understanding of the well control system surface and subsurface configurations with special attention to the wellhead control system and its operational procedures as well as the components of system shutdown and its functions, which permits the operator’s best insurance to achieve well safe operations.

**Petrosync Distinguished Instructor**

**Magdi Taha El Naggar**
Managing Director
Oil Fields Global Consultants (OFGC)

Magdi is an independent consultant having more than 39 years of experience in Petroleum industry. He has extensive experience in IWCF and IADC certification. He also has extensive professional experience in various phase of petroleum, reservoir, production, drilling & workover engineering and field operations with several multinational companies including ARAMCO (Saudi Arabia) and ADCO (UAE). Magdi is experienced professional in all phases of well intervention operations utilizing coiled tubing and well emergency cases, well control as well as extended reach operations. He also has experience in conducting training with several major professional international training institutes at Singapore, Malaysia, Vietnam, Indonesia, China, Egypt, Oman and so on. In additional, he has the extensive experience in full field development studies, reservoir studies, production enhancement for oil fields as well as various types of wells.

**CLIENT LIST INCLUDES:**
- Murphy
- Petrofac
- Talisman
- Sapura
- Schlumberger
- Total
- UMW
- Iraq Oil Company
- OXY
- Gulf of Suez Oil Company
- Badrodine Oil Company
- WEPCO
- OGS
- Apex Dubai
- GlobalPetroSolutions

**PROGRAM SCHEDULE**

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<td>Registration (Day 1)</td>
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<tr>
<td>09:00 - 11:00</td>
<td>Session I</td>
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<td>11:00 - 11:15</td>
<td>Refreshment &amp; Networking Session I</td>
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<td>11:15 - 13:00</td>
<td>Session II</td>
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<td>13:00 - 14:00</td>
<td>Lunch</td>
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<td>14:00 - 15:30</td>
<td>Session III</td>
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<tr>
<td>15:30 - 15:45</td>
<td>Refreshment &amp; Networking Session II</td>
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<tr>
<td>15:45 - 17:00</td>
<td>Session IV</td>
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<td>End of Day</td>
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WELLHEAD CONTROL SYSTEM
27-31 July 2015, Kuala Lumpur, Malaysia

Course Agenda

Day One

Oil Origin & Exploration Methodologies
- Oil Origin and Petroleum Geology
- Exploration Methodologies
- Definition and Classification of Reserves
- Exploitation of Reserves

Reservoir & Reservoir Characteristics
- Reservoir
- Reservoir Rock and Fluid Properties
- Reservoir Recovery Methodologies

Well Drilling & Workover
Well Definition

Well Components
- Surface: Wellhead, X-mas Tree, SSV, Choke Valve, Well loop
- Subsurface: Casing System, Production tubing, Packer

Drilling & Workover Operations
- Definition of Drilling & workover
- Onshore Drilling
- Offshore Drilling
- Types of Rigs (onshore/Offshore)
- Difference between Drilling & Workover
- Directional Drilling

X-mas Tree Types & Functions

Well Cost Analysis
- Basic
- Intangible

Well Abandonment
- Definition
- Procedures

Day Two

Well Completion
- Well Completion Definition and Concept
- Well Completion Classifications and Functions
- Wellhead Types & Functions

Pressure Basis & Basics
- Pressure Concept
- Reservoir Pressure
- Formation Pressure
- Frac Pressure
- FTI Test
- Blowout and Kicks
- Causes and Signs of Kicks
- Well Shut-in procedures

Pressure Equipment
- Types
- BOPs
- Specifications

Practical Exercises Provided

Petrosync Quality

Limited Attendees
The course has limited seats to ensure maximum learning and experience for all delegates.

Certificate of Attendance
You will receive a Certificate of Attendance bearing the signatures of the Trainer upon successful completion of the course. This certificate is proof of your continuing professional development.

Interactive Training
You will be attending training designed to share both the latest knowledge and practical experience through interactive sessions. This will provide you with a deeper and more long-term understanding of your current issues.

High Quality Course Materials
Printed course manual will provide you with working materials throughout the course and will be an invaluable source of reference for you and your colleagues afterward. You can follow course progress on your laptop with soft copies provided.
Day Three

Well Control
- Barrier Theory
- Blowout and Kicks
- Causes and Signs of Kicks
- Well Shut-in procedures
- Well Control Methodologies
- Well Control Categories
- Well Killing Methodologies

Wellhead Operating Area
- Wellhead Hazardous Area
- Wellhead Operating area Zonal Classification
- Wellhead Safety Area

Well Control Systems
- Surface (Wellhead) Control System
  - Features and Functions
- Subsurface Control System
  - Features and Functions

Subsurface Control System
- Surface Controlled Subsurface Safety Valves (SC-SSSVs)
  - Features
  - Functions
  - Types

Landing Nipples
- Features
- Function

Control Line
- Features
- Functions

Well Casing System
- Classifications
- Design Concept

Cement
- Functions
- Procedures

Practical Exercises Provided

IN-HOUSE SOLUTIONS

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Day Four

Wellhead (Surface) Control System
Wellhead Control Panel
  - Features
  - Functions

Wellhead Control Panel Instrumentation and Installation Methodology
Wellhead Control Panel Operating Logic methods
Wellhead Control Panel Operation
Wellhead Control Panel problems, solutions & Troubleshooting
Wellhead Control Panel Maintenance and inspection Procedures

Case Studies Sessions

Well Intervention Operations
  - Definition and Applications
  - Types of Well Intervention Operations
  - Coiled tubing Operations
  - Wireline Operations
  - Well Control Operations
  - Snubbing operations
  - Workover operations

Well Integrity Management System (WIMS)
  - Definition & Functions
  - Importance and Applications

HSE Issues
  - General & Special requirements

Case Studies Provided

Day Five

Practical Exercises Provided
INVESTMENT PACKAGES

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<th>Investment Package</th>
<th>Deadline</th>
<th>Standard Price</th>
<th>Early Bird Offer</th>
<th>Group Discount (3 or more Delegates)</th>
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<tr>
<td>Standard Price</td>
<td>24 JUL 2015</td>
<td>SGD $ 5,995</td>
<td>26 JUN 2015</td>
<td>24 JUL 2015</td>
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Group Discount is based on Standard Price

* To enjoy the promotion & discount offer, payment must be made before deadline
* For 7 or more delegates, please inquire for more attractive package.
* Prices include lunches, refreshments and materials. Promotion & discount cannot be combined with other promotional offers.
* Important: Please note that registration without payment will incur a SGD 200 administration fee.

DELEGATES DETAILS

1st Delegate Name: ____________________________  Mr  □  Mrs  □  Ms  □  Dr  □  Others  □
Direct Line Number: ____________________________  Email: ____________________________
Job Title: ____________________________  Department: ____________________________
Head of Department: ____________________________

2nd Delegate Name: ____________________________  Mr  □  Mrs  □  Ms  □  Dr  □  Others  □
Direct Line Number: ____________________________  Email: ____________________________
Job Title: ____________________________  Department: ____________________________
Head of Department: ____________________________

3rd Delegate Name: ____________________________  Mr  □  Mrs  □  Ms  □  Dr  □  Others  □
Direct Line Number: ____________________________  Email: ____________________________
Job Title: ____________________________  Department: ____________________________
Head of Department: ____________________________

INVOICE DETAILS

Attention Invoice to: ____________________________
Direct Line Number: ____________________________  Fax: ____________________________
Company: ____________________________  Industry: ____________________________
Address: ____________________________________  Postcode: _________________________
Country: ____________________________  Email: ____________________________
Please note:
- Indicate if you have already registered by Phone  □  Fax  □  Email  □  Web  □
- If you have not received an acknowledgement before the training, please call us to confirm your booking.

PAYMENT METHODS

- By Credit Card: Please debit my credit card:  □  Visa  □  MasterCard  □  AMEX  Security Code: ____________________________
  Card Number: ____________________________  Expiry Date: ____________________________

- By Direct Transfer: Please quote invoice number(s) on remittance advice

PetroSync Global Pte Ltd Bank details:
Account Name: PetroSync Global Pte Ltd
Bank Name: DBS Bank Ltd
Bank Code: 7171  Bank Swift Code: DBSSSGSGXXX  Branch code: 288
Account No.:  □  SGD: 2889018980  □  USD: 0288002682016
Bank Address: 12 Marina Boulevard, Level 3, Marina Bay Financial Centre Tower 3, Singapore 018982
All bank charges to be borne by payer. Please ensure that PetroSync Global Pte Ltd receives the full invoiced amount.

Confirmation

I agree to PetroSync’s terms & conditions, payment terms and cancellation policy.

Authorized Signature: ____________________________

PAYMENT TERMS: Payment is due in full at the time of registration. Full payment is mandatory for event attendance.