SUBC
engineering manpower

MPD Course

This course has been created to meet a growing interest and involvement by oil companies and their contracted rig owners in the variety of new adaptive drilling methods, all of which purport to mitigate the well-recognized problems associated with drilling in ultra deep water using Conventional Riser Drilling. (CRD).

For at least the previous fifteen years in the offshore drilling industry, a number of innovative companies have developed a number of systems which only now (2015-19) are seeing field trials, a number of these systems being a 001 & 002 build.

Through this 3 day course, each of the main systems are explored with a brief insight to the design development through the past decade, leading up to the current activities today of the three systems in question being field trialed in various deep water offshore locations around the world.

Supplementary to the systems covered in this school, other complimentary advances in technology are presented, namely Riser Gas Handling (RGH), Early Kick Detection (EKD) and Top Hole Drilling Package (THDP): otherwise known as Riserless Mud Recovery (RMR).

For the advocates of the new adaptive drilling methods, the committed consensus is that these systems, whilst in their industrial infancy at this time of writing, will be accepted as the industrially-wide accepted good drilling practices in not too many years to come. Clearly, there are a significant number of hurdles that must be surmounted to achieve this aura of normality with regard to these systems, least being the required change of ‘mindset’ amongst drilling operatives and oil company personnel alike.

Considering the step changes required in competency & procedures to effectively deploy and operate these systems, this high level course endeavors to provide a comprehensive and technical introduction to those rig personnel who are already involved or about to be involved in any of these new enabling technologies.

Beyond the principles of operation of the presented systems, the course devotes a portion of instructional periods to discuss engineering design rationales underlying the equipment components, together with maintenance fundamentals based on ‘good oilfield practices’, coupled with some current legislation for subsea systems used in the quest for recoverable hydrocarbons in the deep water acreages of the marine environment.

Today’s importance within the drilling industry on the compliance and preservation of established physical well barriers in deep water offshore drilling is highlighted throughout with identified implications on well control procedural gaps (versus CRD) and the proposed contingencies in place to deal with emergency events, such as Emergency Shut Down (ESD) and Emergency Disconnect Sequences (EDS).

If you are interested in attending the course or looking

for more information about the training please contact

www.subc-engineering.com + 44 (0)1224 511670 training@subceng.com

The objectives of the course are:-

- Show the requirements to drill more safely in UDW.
- Explain the underlying principles of Adaptive Drilling Methods.
- Identify the current limitations in relation to methods in use versus the Adaptive New Drilling Methods.
- Illustrate and describe UDW MODU interfaces to achieve DGD or MPD in UDW.
- Recognition of step change requirements in operational and maintenance personnel.
- Identification of design functionality changes in UDW MODU's interfaced for Adaptive New Drilling Methods.
- Discussion of Riser Gas Handling Systems (RGH) safety systems design, operability and operational usage.
- Explore the advances in well fluid mass flow measurements: Early Kick Detection (EKD)
- Investigate methodologies to drill top hole without total loss of drilling fluids returns (THDP)
- Gain understanding of the practical constraints when using an Adaptive New Drilling Method.
- Highlight the well control bridging gaps between CRD, DGD & MPD.

The target audience for this 3 day course in MPD & Adaptive New Drilling Technologies are:-

- OIMs
- Drilling Superintendents
- Toolpushers
- Assistant Rig Managers
- Rig Managers
- Senior (Section Leader) Subsea Engineers
- Subsea Superintendents

Certification

The course has a pre-test and a final test. The pre-test is not assessable and the final test at the end of the course requires a pass rate of 80%. After successful course completion delegates receive a certificate accredited by International Association of Drilling Contractors Drilling Industry Training (IADC).

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