DEEPWATER MANAGEMENT

Course Overview

This course examines the difficulties, challenges and problems facing today’s Deepwater Drilling / Testing / Completion Programme Managers where wells are being drilled in increasingly difficult downhole and environmental conditions with ever increasing cost and legislation further contributing to design and operational pressures.

Furthermore, today’s current low oil price environment adds further pressure to ensure that Deepwater wells are drilled, tested and completed on time and on budget.

Through offering potential and proven solutions to the problems facing today’s deepwater personnel, delegates will be able to maximise drilling safety, efficiency and hydrocarbon production whilst, at the same time, minimising cost and risk on these highly expensive and potentially very difficult wells.

Case histories referencing both successes and failures are referred to throughout the course to maximise the learning / experience transfer process and delegates will have the opportunity to both critique and examine recent deepwater well failures and successes drilled in different parts.

Who Should Attend

This Deepwater Management course has been specifically written for Managers who are involved with the Management aspects of Deepwater Operations – whether office or offshore based.

The material is specifically slanted towards Operator personnel.

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Your Dedicated Coach

Michael Gibson (PhD)

Overview

- Seasoned professional with 35 years’ worldwide experience on drill-ships, semi-submersibles, tender-assist units, platforms, jack-ups and land rigs.
- Extensive experience both onshore and offshore in engineering and operations for Operators and Drilling Contractors on exploration, appraisal & development wells.
- Extensive risk assessment, advisory, planning and rig-site work experience ranging from Drilling Engineer through to Drilling Supervisor, Superintendent & Drilling Manager.

Training

Training experience worldwide ranges across Operators, Drilling Contractors and Service Companies both in-house and public in the following areas :-
- HPHT
- Stuck Pipe Prevention & Fishing
- Deepwater Well Engineering
- Deepwater Operations
- Directional Drilling
- Horizontal & Multilateral Wells
- Accelerated Drilling Programmes for Drilling Contractors
- Graduate Drilling Engineering for Operators
- Optimised Drilling Practices
- Well Planning & Engineering
- Well Construction
- Well Control (Advanced, Understanding, Deepwater & HPHT)

Consultancy

Engineering & Operations Advisor to Operators, Drilling Contractors, Banks & Insurance Companies worldwide re Drilling & Field Development, Risk & Blowouts
- Hazard Analysis
- Offshore Operations
- Technical Advisor for HPHT Developments
- Well Control
- Technical Advisor for Deepwater Operations

Project

- Project Manager for HPHT Field Development; Standard Field Development
- Production Optimisation
- Risk Mitigation
- Brownfield Re-development
- Deepwater
- Well Control
- Management Systems

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WELCOME & INTRODUCTION

1.0 WELCOME, INTRODUCTION & COURSE OVERVIEW

2.0 INDUSTRY DEFINITIONS OF DEEPWATER & ULTRA DEEPWATER

3.0 THE COMMONEST REASONS WHY DEEPWATER WELLS OVER-RUN IN TERMS OF COST / WHY THEY FAIL TO MEET THEIR OBJECTIVES

MODULE 1: MANAGEMENT ISSUES PRIOR TO DRILLING

4.0 OPERATOR’S OBJECTIVES

4.1 The Operator’s Objectives
   Review & Discussion

4.2 The Operator’s Operating Philosophy
   Review & Discussion

5.0 RELEVANT APPLICABILITY OF THE OPERATOR’S SYSTEMS TO DEEPWATER OPERATIONS

5.1 The Operator’s Management System
   Review & Discussion

5.2 The Operator’s Operating System & Standards
   Review & Discussion

5.3 The Operator’s Engineering System & Standards
   Review & Discussion

5.4 The Operator’s Deepwater Well Control Policies & Procedures
   - Review & Discussion
   - API Standard 53
   - Hydrates
   - BOP Stack Ram Configuration
   - Driller’s Method / Wait & Weight / Other

6.0 MANAGEMENT STRUCTURE / ORGANISATION

6.1 The Operator’s Internal / Onshore & Offshore Organisation

6.2 The Drilling Contractors Internal / Onshore & Offshore Organisation
6.3 Service Providers Internal / Onshore & Offshore Organisation

Review & Discussion of how the Service Companies provide first-class timely service and equipment delivery before time of requirement. How to manage the Service Providers.

6.4 The Emergency Responders (Including Oil Spill Contingency)

Review of the Emergency Responders modes of working and communications. How to manage the Emergency Responders.

7.0 CONTRACTING STRATEGY

7.1 Types of Contract with the Drilling Contractor: Benefits & Disadvantages

- Day-rate
- Turnkey
- Performance
- Incentive
- Bonus
- Technical Limit

7.2 Types of Contract with the Service Providers: Benefits & Disadvantages

- On-time provision
- Before-time provision
- Performance
- Bonus
- Penalty
- Technical Limit

8.0 COMPETENCY

This section of the course looks at one of the major factors which affects performance – and so cost – offshore: which is competence.

How is competency measured? What’s important? Is psychological profiling used? How do you know you have the right people in-place for the job? This section looks at those key areas which are of vital importance regarding the following key areas:-
- Maximising Safety
- Maximising Efficiency
- Maximising Performance

9.0 RISK ANALYSIS

Review of the Risk Analysis work carried out by the various teams within the Organisation. Review of the mitigations / eliminations in place.

10.0 EMERGENCY SCENARIOS & SOLUTIONS

Review of Emergency Scenarios and Solutions, and the Management processes and procedures in place to deal with Emergency Situations, for example (but not limited to):-
- Emergency dis-connect
- Well control
- Blowout
- Fire
- Hydrogen Sulphide
- Vessel power black-out
- Accident
- Vessel move-off / drive-off

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11.0 THE DRILLING / TESTING / COMPLETION PROGRAMME

- Peer Review
- Independent Well Examination
- Programme sign-off

12.0 DWOP / TWOP / CWOP

Attendees; Where held; Involving the Drilling Contractor and the Service Providers; Agenda; Critical Issues

13.0 EQUIPMENT CERTIFICATION / TESTING

- Vessel Surface Equipment
- Vessel Marine Equipment
- BOPE
- Riser
- Service Company Hardware, e.g. Wellheads, Hangers, Expandables etc.;
- Service Company Equipment, e.g. MWD, Motors, Jars, reducing MTBF etc.
- Back-up Strategies

14.0 BRIDGING DOCUMENTATION

- What’s Important
- Who writes it?

15.0 TECHNICAL LIMIT

- Is it going to be used? If so, when and how?
- Training

16.0 TRAINING

- Its Importance
- Operator
- Drill Crew
- Service Personnel
- Deepwater Well Control

17.0 TEAMWORK & COMMUNICATION

- Its Importance
- Operator
- Drill Crew
- Service Personnel
- Clear, Unambiguous Communication
MODULE 2: MANAGEMENT ISSUES WHILST DRILLING

1.0 INTER-FACING: TOWN & VESSEL; OPERATOR & DRILLING CONTRACTOR; OPERATOR & SERVICE COMPANY
- How
- Lines of Communication

2.0 RISER DIS-CONNECT
- Policies
- Procedures

3.0 MOVE-OFF
- When (Oceanographic / Meteorological Conditions)
- Procedures

4.0 BOPE
- Testing
- Frequency
- Flat-lines

5.0 WELL CONTROL
- Understanding
- Certification
- Drills

6.0 TEAMWORK
- It’s Importance
- The Drilling Supervisor’s Inter-personal Skills
- Teamwork Meetings

7.0 SAFETY
- General
- Heights
- Working Practices
- The Red Zone on the Drill Floor

- Permit to Work System
- PPE
- Gas Detectors
- Chemicals

8.0 MEETINGS
- Their Importance
- Tourly Meetings
- Daily
- PISM

9.0 DRILLING PERFORMANCE
- Monitoring
- Trends
- Safety (Drilling Breaks)
- TRI’s

10.0 INCLUDING THE INDEPENDENT WELL EXAMINER
- The Importance
- Information / Data
- Questioning

11.0 MOC (MANAGEMENT OF CHANGE)
- How are changes to the Drilling Programme (e.g. Casing shoe setting depth; Non-achievement of the desired LOT / FIT) managed?
- Recording the decisions made
- How?

12.0 DUAL DERRICK OPERATIONS
- If Operator Selects Dual Derrick Vessel, How are Operations going to be Optimised?
- Training

Course Close

Note:- Time will be given to delegates for Q & A, and to discuss their up-coming well, which is typically beneficial, especially if the Drilling Programme is available.
IDEAS (Independent Drilling Engineering Associates) is a thinking company. It focuses its in-depth and holistic knowledge, breadth of experience and expertise onto operators, drilling contractors and service companies’ drilling engineering and related work requirements, to provide top quality fast turnaround bespoke work packages on either an ad-hoc or long term basis, 24 hrs per day / 365 days per year, worldwide.

Through applying creative thought, ingenuity, experience, integrative life-cycle considerations, fully focused dedication and commitment to problem-solving, IDEAS aim to provide the most professional, solution-oriented, cost-effective drilling engineering and related services anywhere around the world at any time.

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Contact Details

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☐ I would like to contact IDEAS for In-House Training Solutions
☐ I would like to contact IDEAS for In-House Consultancy Solutions
☐ Other enquiry

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