

Training Title

STUCKPIPE AND FISHING IN HPHT WELLS (ADVANCED)

Training Duration

5 days

Training Date

DE2022	Stuckpipe and fishing in HPHT wells (ADVANCED)	5	04-08 March 2024	\$6,000	Kuala Lumpur, Malaysia
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In the below 5 star hotel as mentioned. The exact venue will be informed once finalized.

Training Fees

- \$6,000 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

Language: English

INTRODUCTION:

The 5 day session on Stuck Pipe & Fishing in HPHT wells focuses upon the key mechanisms with which pipe becomes stuck and how the sticking mechanisms can be prevented through proper planning and operational procedures. It also covers the Driller's First Actions, i.e. what the Driller should do as soon as he has become stuck in order to maximise the possibility of becoming free.

To maximise learning, delegates work through actual Stuck Pipe case histories, identifying the sticking mechanisms, prevention measures and what to do to get free. Presentation material is through the use of PowerPoint, case histories and video.

Typically, Fishing is the last chance for the Operator to recover the stuck BHA / fish from the hole. In many cases work pressure is considerable, since fishing is a high cost operation and because Governments often demand that nuclear sources for example are recovered. Thus, it is vital that Fishing is a success. And yet there is an estimated 85% failure rate.

The session on Fishing focuses upon how it can be a success first time. To maximise learning, delegates work through actual fishing case histories and follow proven procedures and methodologies. Presentation material is through the use of PowerPoint, case

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histories and videos may seem simple enough in theory, but not all employees have the necessary skills and competencies to successfully apply it in practice. One of the key components in driving change is employee training and development. Provide additional risk management training to the in-house risk management team and business units. Risk managers may conduct it personally or outsource to third party providers. In-depth risk management training should include (this example is based on the actual risk management Training course is intended to introduce the fundamentals of Risk Management being a systematic core built-in function in all types of organizations. This training course provides you with a general overview of all main aspects of Risk Management starting from the definition of the term and going through the building blocks of the total integrated Enterprise Risk Management model (ERM) together with its related Risk Governance arrangements.

This training course will enable participants to appreciate the need and urgency to re-visit their existing Risk Management framework with an aim to improve and align with the overall organization strategic plan.

COURSE OBJECTIVE:

By the end of this course, delegates will be able to:

- ✓ Understand how drill pipe become stuck & what they can do to prevent the situation from occurring.
- ✓ What the driller should do regarding his “First Actions” upon becoming stuck.
- ✓ Fully understand the contents of the Driller’s Stuck Pipe Prevention Handbook.
- ✓ How to fish successfully the first time – i.e. what information, tools, techniques, practices and procedures are required.
- ✓ Fully understand the contents of the Driller’s Fishing Handbook

COURSE METHODOLOGY

The training course will be highly participatory and the course leader will present, guide and facilitate learning, using a range of methods including formal presentation, discussions, sector-specific case studies and exercises. Above all, the course leader will make extensive use of real-life case examples in which he has been personally involved. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Case studies & Practical Exercises
- 10% Role Play
- 10% Videos, Software or Simulators (as applicable) & General Discussions

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WHO SHOULD ATTEND?

Well & Drilling Engineers, Supervisors & Superintendents from operating companies, Field contractors & Service Company personnels.

COURSE SCHEDULE

Day 1

- Categories of stuck pipe
- The Mechanisms
- Clay Chemistry
- Shale Problems
- Symptoms of shale problems
 - Soft cuttings
 - Clay balls in the flowline
 - Bit and stabiliser balling
 - Tight hole tripping and problems logging
 - Problems increase with time
- Mud Types: use of inhibitors
- Flow rates: Optimum field values
- Pressures
- Effects of hole angle
- Warning signs of inadequate hole cleaning
- Shaker evidence
- Packing off by drill cuttings
- Freeing stuckpipe by drilled cuttings
- Assessment exercise
- ECD
- Control of ECD
- Key seating
- Cement blocks
- Green cement
- Junk
- Ledges and doglegs
- Mobile Formations
- Creep mechanism
- Collapsed casing
- Casing design method across salt sections: uniform and non-uniform loading
- Casing selection across salt sections
- Effects of placement of production packer
- Undergauge hole

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- Assessment exercise

Day 2

Well Bore Stability

- Earth stresses
- Current theories of hole fracture
- Tensile failure mechanism
- Hole collapse mechanism
- Effects of hole angle on wellbore stability
- Effects of azimuth on horizontal well placement
- Safe mud weights envelope
- Detailed Exercise

Differential Sticking

- Differential sticking mechanisms
- Porosity & permeability effects
- Factors affecting differential sticking
- Freeing differentially stuck pipe
- Pipe freeing agents
- Reduction of mud hydrostatic pressure
- Dealing with kicks while freeing stuck pipe
- The U-tube method
- Exercises

Day 3

- **Decision Trees**
- First actions – Primary freeing methods
- When stuck by solids or pack off
- When stuck differentially
- When stuck other than solids or differential

Back Off Operations www.definettraining.com

- Determining free point
- Stuck Pipe Forces: Calculations
- Drillstring forces theory
- Max allowable load
- Maximum allowable torque
- Combined loading
- Free point calculations
- Back off operations
- Assessment exercise

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Day 4

Jars And Accelerators – How They Work

- Mechanical Jars
- Hydraulic jars
- Hydro-mechanical jars
- Fishing jars
- Accelerators
- Jar forces
- Jar envelopes
- Cocking
- Firing
- Placement
- Fishing Economics
- Exercise

Day 5

Fishing Equipment & Operations

- Review of fish tools
- Milling tools and assembly
- Hole cleaning and swarf removal
- Window milling
- Milling junk
- Standard fishing tools
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Case Studies, Group Discussions, Last Day Review, and Assessments will be carried out.

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