



## Stuck Pipe and Fishing Operations

**Course Duration** : 5 Days

**Date** : 08-Sep-2024 to 12-Sep-2024

**Location** : Kuala Lumpur

**Type of Participant** : This course is designed for Operators, Technicians, Engineers, and Technical Personnel who are involved in Drilling Operations & Engineering.

### Summary:

A participative program to enable drilling and workover personnel with the knowledge to prevent stuck pipe and further develop the skills to practically fish and side-track wells.

This course explores best practices through design, planning, and job execution to primarily prevent situational stuck pipe and associated conditional problems resulting within drilling and workover well operations. Additionally, This course addresses the main aspects of Stuck Pipe problem, causes, types, mechanisms and solutions.

### Objective:

By the end of the course, participants will be able to:

- Understand the stuck pipe problem including the related causes starting from hole cleaning issues passing by the different pipe sticking mechanisms freeing techniques and preventive measures.
- Understand the fishing equipment and technologies.
- Prevent stuck pipe in drilling and workover through best practise design, planning, and execution.
- Apply the technical skills to safely fish and side-track wells when well problems arise.



- Develop a multidisciplinary team-work to deliver trouble-free drilling and workover operations.
- Construct awareness of sidetracking methods in different formation types, e.g., whip stocks, cementing, kick-off plugs, milling, and orientation.
- Further outline plug back cementing, open and cased hole side-tracking, and how to apply the tools, equipment methods, and practices required.
- Plan, design, and engineer compliant drilling operations to prevent stuck pipe events
- Demonstrate the hazard identification knowledge to reduce drilling and workover risks and assure that correct management of change shall prevent stuck pipe
- During drilling/workover operations, enable the operations team to recognize and analyze the warning signs and symptoms of stuck pipe within drilling and workover operations
- Develop skills to prevent and mitigate both wellbore and formation aspects of stuck pipe

### **Contents:**

- Basic knowledge
- Hole cleaning
- Jars technology and operations
- Stuck pipe introduction
- Stuck pipe mechanisms
- Mechanical Sticking



- Differential Sticking
- Hole Back-offs
- Stuck pipe causes
- Stuck pipe freeing techniques
- Fishing equipment and technologies

### **Daily Program:**

#### **Day 1**

- What is a Stuck Pipe?
- Stuck Pipe Introduction
- Hole Cleaning
- Jars technology and Operations

#### **Day 2**

- Mechanism of Stuck pipe
  - Mechanical Sticking
  - Differential Sticking
  - Hole Back-offs
- Formation related stuck pipe

#### **Day 3**



- Stuck Pipe Causes
- Stuck Pipe Freeing Techniques

## Day 4

### Preventing Stuck Pipe

- Managing Stuck Pipe
- Top Drive Systems
- Best Practices
- Recognizing Problem Situations
- Case Histories

### Freeing Stuck Pipe

- Pre-recorded data
- Freeing stuck pipe
- Jar Theory and Procedures
- Best Practice Freeing Methods

## Day 5: Fishing Equipment and Technologies

- Fishing theory
- Fishing tools
- Fishing application
- Fishing equipment and technologies