



## Stuck Pipe and Fishing Operations

**Course Duration** : 5 Days

**Course Fee** : \$3490 per person

**Date** : 05-Aug-2024 to 09-Aug-2024

**Type of Participant** : People associated in drilling or workover projects in well design, engineering, operational or organizational support functions. Drilling, Geology, Geo-Science, Completions, Contractor, and 3rd party support roles or functions including team leaders, supervisors or management functions.

### 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.

### Objective:

#### Purpose

Prevent stuck pipe and enable skills set for safe, effective, and efficient fishing and side-tracking of wells within drilling and workover operations.

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

- 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
- Know how to apply best practice fishing and sidetracking tools, methods, and techniques during drilling or workover operations, including plug-back cementing, whipstock orientation, milling, and directional drilling.

## **Contents:**

### **Day 1**

- The Stuck Pipe Problem
- Goals and Objectives
- "GOTCHA"
- Soft skills importance

**Debrief:** The stuck pipe problem

### **Day 2**



## **Stuck Pipe Causation**

- Mechanism of stuck pipe
- Different sticking
- Mechanical Stuck Pipe
- Formation related stuck pipe

## **Day 3**

### **Combined hole problems**

**Debrief:** Mechanisms of stuck pipe

### **The Team Impact to Prevent Stuck Pipe**

The rig-site team

**Debrief:** Teamwork and Communication

### **Predicting Stuck Pipe**

### **Completion Activities**

- Tight hole mechanisms
- Tight hole causation
- Case studies

**Debrief:** Stuck Pipe Prediction

## **Day 4**



## **Preventing Stuck Pipe**

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

**Debrief:** Stuck pipe prevention

## **Freeing Stuck Pipe**

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

**Debrief:** Freeing Stuck Pipe

## **Day 5: Fishing & Milling Essentials**

- Fishing theory
- Fishing tools
- Fishing application
- Milling tools
- Milling application

**Debrief:** Fishing and Milling

## **Sidetracking**

- Well abandonment
- Plug back cementing



- Kick off methods
- Directional drilling
- Best operating practices

**Debrief:** Sidetracking wells

**Course Feedback & Debrief**