

STUCK PIPE PREVENTION

DRL031

COURSE DESCRIPTION

This course will cover a practical review of the causes of stuck pipe and the techniques that can be employed to avoid such problems. This course gives an overview of drilling geology and conditions that may lead to stuck pipe situations, wellbore instability as one of the major factors cause of stuck pipe incidents. It covers three basic mechanisms causing stuck pipe incidents and analyze in detail conditions for the occurrence of each one, the warning signs and their prevention. The course focuses on the correct identification of the stuck pipe mechanism, and implementation of the first actions to get the drill string free. In this course participants will also learn about the selection, installation, and operation of the Drilling Jar to help in the liberation of stuck pipe.

COURSE GOAL

To enhance participants' knowledge, skills, and abilities necessary understand how to prevent and respond to stuck pipe.

COURSE OBJECTIVES

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

- Select the equipment (wellhead, BOP, ancillary equipment) to design a well
- Detect operating problems
- Check the equipment used
- Identify warning signals of potential stuck pipe incidents or hole problems
- Understand the problems that can lead to a pipe getting stuck
- Identify and interpret efficiently any signal received while drilling.

WHO SHOULD ATTEND

- Drilling Supervisors.
- Drilling Engineers.
- Directional Drillers.
- Petroleum Engineers.
- Completion Engineers.
- Drillers.
- Specialist Service Company Engineers.

COURSE DURATION

5 Working Days

COURSE OUTLINES

1. Introduction to Stuck Pipe Environment

- Stuck pipe and their impact on the economic and feasibility of drilling projects.
- Drilling geology and conditions that may lead to stuck pipe situations.
- Well bore instability: Causes and remedies.

2. Mechanisms for Stuck Pipe – Causes, Occurrence, Prevention

- Solids pack off sticking.
- Differential pressure sticking.
- Wellbore geometry sticking.

3. Stuck Pipe Identification and Prevention

- Stuck pipe diagnosis and first responses.
- Drilling jar placement and operation: Selection, installation, and operation.
- Recommended practices for stuck pipe prevention.

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