Stuck Pipe Prevention

5 days  
Overview

LEVEL
Skilled

PURPOSE
This course aims to raise the awareness of the negative impacts of stuck pipe incidents and to provide the necessary knowledge to implement preventive measures to avoid a stuck pipe situation, and also to have the skills to supervise and plan correctly any stuck pipe incidents in the hole.

LEARNING OBJECTIVES
Upon completion of the course, participants will be able to:
understand all the consequences of a stuck pipe incident,
implement the preventive measures to a stuck pipe incident,
identify and interpret any warning signs of a potential stuck pipe incident,
take the correct actions according to the stuck pipe situation,
perform the necessary calculations in case of stuck pipe,
recognize the efficiency of teamwork, communication and reporting.

WAYS AND MEANS
Course material (PPT, video).
Individual and group exercises.
Instructor with a valuable experience in drilling operations.

LEARNING ASSESSMENT
Quiz.

PREREQUISITES
No prerequisites for this course.

Agenda

CONSEQUENCES OF STUCK PIPE INCIDENT
Impacts.
Statistics.
Causes.
Basic rules.

STUCK PIPE MECHANISMS
Differential sticking.
Solids induced pack off.
Mechanical and wellbore geometry.

DRILL STRING, MUD & HOLE CLEANING
Characteristics and limits of the drill string.
Margin of over-pull.
Roles and characteristics of the drilling mud.
Solids control equipment.
Hole cleaning.

**METHODS TO FREE THE DRILL STRING**
First actions for the driller.
Use of drilling jars.
Reduction of the differential pressure.
Use of lubricant pills.

**PREVENTIVE MEASURES**
Listen to the hole.
Good drilling practices while drilling and tripping.
Teamwork and monitoring.

**FISHING EQUIPMENT**
Description, function and correct use of fishing equipment.

**HISTORY CASES**
Identify stuck pipe mechanisms and analyze the causes.

**FINAL TEST**