

# WELL ABANDONMENT

## DRL052

### COURSE OVERVIEW

This course gives participants a brief overview of the well abandonment procedure (P& A) and well decommissioning concepts, including why and how well are temporarily suspended and permanently removed from service. Participants learn about basic principles of well integrity, well barrier element installation well barrier verifications and acceptance criteria, in addition of oil and gas industry guidelines and standards, legislation by various countries, including resulting laws and governmental regulations are reviewed. Service Company and operators recommended practices are covered, compared and contrasted. ; it can be during or after drilling or production. Here, participants will learn abandonment procedures of all possible scenarios incl. abandonment in completed wells.

### COURSE OBJECTIVE

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

- Understanding of short and long term well integrity and well abandonment concepts and terms
- Review primary cementing objectives, type of well completions, preventing gas migration and fishing
- Present latest technologies, tools, techniques, methods and procedures for permanently plugging wells.
- Understand remedial squeeze cementing and cement plug placement as permanent well barrier elements.

### WHO SHOULD ATTEND

Drilling Engineers

### COURSE DURATION

5 Working Days

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## COURSE OUTLINES

### Day 1

- Pre course evaluation
- Intro to P&A.
- Well integrity and well control, drilling and primary cementing, well barrier elements – casing and cement.
- Primary cementing, criteria for successful cementing, cement evaluation types of well completions.

### Day 2

- Generic well abandonment overview and review, intro to well abandonment regulations and guidelines.
- Gas migration, consequences, causes and control, cement as a well barrier element. (WBE)
- Perforating casing cutters explosives, chemical and mechanical fishing tools, and fishing operations.

### Day 3

- P&A Technologies, section mills, pipe cutters and single trip cutting milling and under reaming system.
- Best practices: Example P&A Exercise.

### Day 4

- Cement and casing evaluation tech. Calliper, temperature tracer. Noise and production logging cement bond/ variable density log (CBL / VDL), ultrasonic imager tools (USIT) , isolation scanner tools ( IST )
- Squeeze cementing, cement plug placement and specialty cements.

### Day 5

- Best practices: example P&A exercise
- Well abandonment legislation regulations and guidelines, comparison of P&A exercise
- Post course evaluation.

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