



Petroleum, Oil & Gas



SCANDINAVIAN ACADEMY
Training and Development

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Course: Drilling Fluids & Cementing

Code	City	hotel	Start	End	price	Hours
757	Auckland (New Zealand)	Hotel Meeting Room	2024-08-19	2024-08-23	5950 €	25

Course Objectives

- Be aware with the whole drilling operations briefly, well profiles & all used related services used in the well.
- Be aware with the drilling fluids & cementing programs based on the available well drilling programs details.
- Be aware with the design, preparing, testing & treating the DRLG Fluids while drilling the whole well sections specially the pay zone to prevent the complications due to pay zone damage, skin factor, hole cleaning
- Be aware with the mud properties & testing procedures @ rig site.
- Evaluate the mud problems while drilling the whole well specifically the pay zone section & how the skin factor can be controlled while drilling.
- Be aware with all differences, advantages, disadvantages & handling issues for both OBM & WBM different mud systems.
- Be aware with the design, preparing, testing & performing the cementing jobs for the whole well sections specially the pay zone to prevent the complications due to pay zone damage, skin factor, liner problems
- Evaluate the cement behind casing quality specially in the pay zone & the needed remedial actions in any failure's cases.
- Know a detailed idea about the completion fluid properties, problems, types, filtration, treatment ways
- Be aware with all cementing calculations.
- Be aware with all cementing chemicals, equipment & accessories.
- Be aware with all cementing lab test & all cement job types.
- Be aware with the cement evaluation jobs (CBL-VDL-USIT).

Who Should Attend?

This course is intended for drilling engineers, senior drilling engineers, operations engineers, well testing engineers & operators, senior operations engineers, completion engineers, reservoir engineers, production engineers, day well site supervisors, night well site supervisors, contractors' stuff & all supporting staff needing to gain an understanding of the principles and practices relevant to the drilling fluids & cementing activities.

Training Methodology

- This interactive online training course includes the following training methodologies as a percentage of the total tuition hours
- 25% Lectures
- 30% Workshops & Work Presentations
- 20% Case Studies & Practical Exercises



- 25% Videos, Animation & General Discussions

Course Program

Day 1

- **Drilling Well Services (Brief)**
 - Drilling & WO Rigs.
 - Drilling Bits.
 - BHA & Down Hole Tools.
 - Drilling Fluids (OBM & WBM) in more details than others.
 - Casing & Cementing in more details than others.
 - Well Head Services.
 - Surveys & Logging (Open Hole & Cased Hole).
 - Cold Cutter & Hot Welding.
- **Safety Alerts**
- **Cont. Drilling Well Services (Brief)**
 - Fishing Tools & Operations.
 - Directions Drilling.
 - Cut Core (Convectional & Oriented).
 - Clean Out Scraper Runs & Completion Fluid Displacement.
 - Liner & Production CSG.
 - Well Testing.
 - Well Completions.

Day 2

- **Drilling Fluids “MUD”**
 - Introduction
 - Drilling Fluids Functions
 - Main Differences between OBM & WBM.
 - OBM Treatment.
 - Different Mud Systems.
 - Mud Chemicals.
- **Cont. Drilling Fluids “Mud”**
 - Mud Properties.
 - Drilling Fluids Program Preparations.
 - Mud Measurements & All Related Devices.
 - General Drilling Problems in relation with the mud.
 - Mud Losses & Fluid Invasion.
 - LCM's & Cement Plugs Losses Treatment.



Day 3

- **Cont. Drilling Fluids “Mud”**
 - Kicks & Well Control Issues.
 - Kill Sheet Calculations.
 - Stuck Pipe & Long OH Exposure Time Effect.
 - Hole Cleaning & Mud Contaminations.
- **DRLG Fluids & Skin Factor Relationship while drilling operations**
- **Cementing**
 - Introduction
 - Casing Design Brief ((Sizes, Hole Sections, Properties, Setting Depths, Accessories, Running procedures, CSG Problems).)
 - Cementing Functions.

Day 4

- **Cont. Cementing**
 - Dry Cement Classes.
 - Cementing Chemicals & Functions.
 - Cementing Equipment, Tools, Accessories, Specifications, Setup, Rigging Up Procedures, related problems ...).
- **HSE Alerts**
- **Cont. Cementing**
 - Cement Unit Components.
 - Cementing Program & Lab Test Preparations.
 - Cementing Jobs Types (On Fly & Batch Mixed).
 - Liner Cement Job Procedures & All Related Problems with solutions.

Day 5

- **Cementing Quality Evaluation & its importance while the well life.**
 - CBL.
 - VDL.
 - USIT
 - CSG Punch & CMT Squeeze Jobs.
 - ST CMT Plugs (OH & CH).
 - Whip Stock Techniques.
- **Different real CH logs & problems evaluation**



The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:

- **Theoretical Lectures:**
 - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
 - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
 - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
 - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
 - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
 - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
 - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
 - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
 - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
 - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.