Training - Advanced Cementing Practices

CIM2-EN-P | Face-to-face only | 5 days

This course aims to deepen the understanding and develop the skills needed to design efficiently a cementing program

Level
Skilled

Public
Engineers, supervisors and lab professionals involvedin cementing in water, geothermal or oil/gas drilling operations

Objectives
Attendees will be able to implement the following skills:

- Acquire a detailed knowledge of the different cementing techniques
- Address special cases: liner, highly deviated wells, gas zones
- Design a full cementing program for a real typical case
- Assess the quality of a cementing job

Pedagogical & technical resources

- Exercises
- Teamwork on a project

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites
No prerequisites are necessary to follow this course

Responsable
IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

TECHNIQUES & JOB PROCEDURES — 8 hours

Cementing program.
Job planning and preparation:

- Casing running.
- Selection of the fluids and flows.

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- Cementing calculations.
- Primary, surface, multistage, liner cementing.
- Cement plugs.

CEMENT & SLURRIES — 3 hours

Cement chemistry, cement with environmental impact reduction (CO2).
Special slurries and additives.
Formulation and laboratory tests.
Rheology.
Displacement in eccentered annulus.
Salt zone and temperature problems.

SPECIAL CASES — 6 hours

Gas zone cementing.
Deviated and horizontal wells cementing.
Remedial techniques.
CO2 environment (CO2 resistant cement).

CEMENTING PROJECT — 6 hours

Design of a whole well cementing job.

EVALUATION OF THE CEMENTING JOB — 6 hours

Principles and interpretation of the cement logs:

- Thermometry.
- Sonic (CBL - VDL).
- Ultrasonic (USIT).

Logs analysis on a real case.

KNOWLEDGE ASSESSMENT — 1 hour

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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