Training - Data Acquisition during Drilling Operations

LOGFI-EN-P

Face-to-face only

5 days

This 5-day course will be run over 4 days as there are public holidays. The entire program will be given, but the days will be extended

This course provides a thorough, practical knowledge of openhole logging, mud logging and coring

Level

Skilled

Public

Young engineers and supervisors, tool pushers, with some experience in drilling

Objectives

Attendees will be able to implement the following skills:

- Understand, assess and interpret measurements made while drilling
- Learn about techniques and equipment used for coring during drilling operations
- Understand how to prevent kicks and drilling problems with mud logging data analysis
- Understand wireline and LWD technology with regard to log data analysis
- Appreciate the geoscientists' work in a quick-look log analysis at the rig site

Pedagogical & technical resources

- Alternation between theoretical contributions and case studies, with a large part left to the participants' questions. Exercises in working groups
- Application to a real case (project) for the participants in the "Drilling & Completion Engineering" training course
- Case studies
- Numerous illustrations and videos

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

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MUD LOGGING

Tasks of various professionals at the drilling site.
Main documents carried out.
Cuttings (sampling, cleaning and analysis).
Mechanical parameters (WOH, WOB, RPM, Torque, ROP) & hydraulic parameters (SPP, Flows, Pits and mud characteristics). Physical principles of sensors used on well site.
Detection and evaluation of Oil & Gas shows while drilling.
Detection of abnormal pressures.
Detection of drilling problems: kicks, losses, stucking...
Carry out a section of geological log.
Case studies.

WELL LOGGING & LOGGING WHILE DRILLING

Definition of basic concepts used in log interpretation.
Wireline logging:

- Well site setup and log records operation.
- Main logging tools and applications (caliper, GR, SP, resistivity, nuclear, acoustic).
- Quick-look interpretation: reservoir identification and characterization (lithology, porosity, fluid types, saturation).
- Case study.

Logging while drilling:

- Main LWD sensors and measurements (directional, resistivity, nuclear, acoustic, pressure...).
- Applications for directional drilling, geosteering, formation evaluation, predictive pressure.

Pressure measurement concepts.
Different technics for sampling with wireline and LWD tools.
Prevention actions to handle sampling operations.

CORING OPERATIONS

Data collected with coring.
Conventional coring operation.
Cores bits and drilling strings for coring operations.
Advanced coring technics: turbo-coring, soft formations coring, gel coring.
Oriented coring system.
Sidewall coring.
Storage and handling process for cores during surface recovery: cores cutting, preliminary well site analysis, storaging of cores.

KNOWLEDGE ASSESSMENT

Sessions

Pau - From 04/07/2026 to 04/10/2026 **3800 €/HT**

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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