Training - Directional and Horizontal Drilling

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

This training aims to provide the necessary knowledge to plan and carry out a directional drilling (geothermal, water, storage, oil, gas)

Level
Skilled

Public
Technicians, site managers, supervisors, superintendents and engineers who will be involved in geothermal, water, storage or oil drilling operations

Objectives
Attendees will be able to implement the following skills:

- Know about the equipment needed for directional drilling
- Design a directional well
- Calculate the trajectory of a deviated well in 2D
- Design the drill stem, with regard to a well's profile, in order to reach a target

Pedagogical & technical resources

- Exercises
- Application to a real case (project) for participants in the "Drilling & Completion Engineering" training course

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

GENERALITIES — 6 hours

Applications, terms and definitions.
Well profiles, coordinates' system.
Trajectory control.
Uncertainty calculation, anti-collision.

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DIRECTIONAL DRILLING EQUIPMENT — 4.5 hours

Specific drilling equipment: downhole motors, rotary steerable system.
Measuring equipment: MWD, LWD, GWD.

DRILLING ENGINEERING — 13.5 hours

Well planning.
Limits of use of a drill string: buckling.
Drill string design.
Torque and drag calculation.
Drilling fluids and cementing program.
Logging.
Geosteering drilling.
Well control.

HORIZONTAL & ERD — 1.5 hours

ERD, multilateral and short radius.

CASE STUDIES — 3 hours

KNOWLEDGE ASSESSMENT — 1.5 hours

Sessions

Pau - From 03/30/2026 to 04/03/2026 — **4320 €/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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