Training - Wellbore Treatments

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

This course provides knowledge and skills needed to examine well damage issues and take appropriate actions

Level

Knowledge

Public

Drilling or completion engineers, supervisors, lab or production professionals, non-specialists in wellbore treatment

Objectives

Attendees will be able to implement the following skills:

- identify the nature and the origins of well damage
- choose the adequate stimulation method
- perform a basic calculation of HF & acidizing
- understand the method to select the candidate well for stimulation
- learn how to deal with sand production and water coning

Pedagogical & technical resources

- Animations - Exercises
- Visit of a rock mechanics and reservoir-wellbore interface laboratory
- Application to a real case (project) for the 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

INTRODUCTION TO WELLBORE TREATMENTS — 6 hours

Fundamental reminders on Productivity Index (PI), the skin effect and flow efficiency, the different components

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of the skin.
Productivity issues: cause of low productivity, nature and origins of well damage, location of problems and possible solutions.
Damage due to fluids: mechanisms, prevention.

MATRIX TREATMENT: ACIDIZING... 6 hours

Aims; how it works.
Carbonate rocks and sandstones; inner characteristics, reactivity to injected fluids.
Choosing the acids and the additives.
Choosing the wells to be treated.
Design: preparation, checks and guidelines during the operation, after the acidizing (flow back...), possible cause of failure, coiled tubing...

HYDRAULIC FRACTURING 6 hours

Aims and principles; candidate wells.
Frac fluids and fracture propping.
Calculation models and frac impact on PI.
Design; program, frac evaluation.
Other cases: pre-frac, minifrac, acid frac.

SAND CONTROL 6 hours

Basics: consequences of sand, prediction of sand, sand analysis.
Sand control techniques; case of mechanical processes (determining the gravel and the screens...).
Design: cased hole gravel packing, openhole gravel packing, preparing the gravel pack, various methods, guidelines.

WATER OR GAS SHUT-OFF & DEPOSITS 4 hours

Origin of the problems.
Remedial.
Debate around several examples.
Case study.

KNOWLEDGE ASSESSMENT 2 hours

Sessions

Pau - From 02/16/2026 to 02/20/2026 **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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