

Training - Matrix Acidizing



ACID-EN-P



Face-to-face only



5 days

This course provides knowledge and skills needed to identify well damage issues in sandstone and carbonate reservoirs, and design acidizing programs

Level

Skilled

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
- design an acidizing program
- select the additives needed
- identify the candidates wells
- set up the acid treatment program

Pedagogical & technical resources

- Exercises - Teamwork
- Visit of a reservoir-wellbore interface laboratory (if available)

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

Responsible

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 RESERVOIR TREATMENTS

0.5 day

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

FORMATION DAMAGE

1 day

Productivity issues: cause of low productivity, nature and origins of the damage, location of the problems and possible solutions.

Scale deposition: scale control and prevention.

MATRIX TREATMENT: ACIDIZING CARBONATES

1 day

Aims; how it works.

Sandstones: inner characteristics, reactivity to injected fluids.

Laboratory studies.

Exercises.

MATRIX TREATMENT: ACIDIZING SANDSTONES

1 day

Aims; how it works.

Sandstones: inner characteristics, reactivity to injected fluids.

Choosing the acids.

ACIDIZING ADDITIVES

0.5 day

Review of the different additives (corrosion inhibitor, iron complexing agents, surfactants, solvents, etc.).

Selection of the additives.

MATRIX TREATMENT DESIGN

0.75 day

Candidate selection.

Matrix design methodology.

Diversion.

Treatment evaluation.

Other associated processes (water shut-off...).

Causes of failure in matrix acidizing.

Case study.

KNOWLEDGE ASSESSMENT

0.25 day

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