Training - Fracture and Fault Modeling Workshop with FracaFlow™

FRACA-EN-P | Face-to-face only | 4 days

This course provides participants with proficient skills for the modeling using a software dedicated to fractured reservoir characterization and modeling

Level
Skilled

Public
Geoscientists and reservoir engineers involved in development of naturally fractured reservoirs

Objectives
Attendees will be able to implement the following skills:

- Participants will be able to apply the workflow to characterize and model the fracture network in a reservoir model

Pedagogical & technical resources

- Interactive presentations, practical exercises and hands-on activities using FracaFlow™
- Software used during workshops: with courtesy of Beicip-Franlab

Assessment of achievements

- Les stagiaires sont évalués au long de la formation au travers de phases applicatives et d'échanges avec le formateur
- Une évaluation à chaud peut également être effectuée en fin de formation et/ou en fin de module par des tests visant à vérifier la compréhension et l'intégration par les apprenants des connaissances correspondant aux objectifs de la formation

Prerequisites
Knowledge in Geosciences

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 & DATA IMPORT (“NF” CASE STUDY) — 0.5 day

Theoretical notions about fractured reservoirs.
Overview of OpenFlow™ platform.
Study creation, settings, 1D-2D-3D views.
Data import: reservoir grid, horizons, faults, wells and related data.

FRACTURED & FAULT CHARACTERIZATION (“NF” CASE STUDY) — 0.5 day

Fracture analysis at wells: orientation, dispersion, sets creation.
Fracture density computation.

Fault analysis: length, spatial distribution, sets creation, attribute maps.

MODELING, CALIBRATION, EQUIVALENT PARAMETERS COMPUTATION (“NF” CASE STUDY) — 1 day

Fracture and fault modeling/DFN generation:

- Diffuse fractures and faults.
- Quality control.

Equivalent parameters computation: full field analytical upscaling.
Calibration with KH data.
Dynamic simulations: flowmeter, well test simulation.

DATA IMPORT, DYNAMIC & GEOLOGICAL ANALYSES (“MEMBER” CASE STUDY) — 1 day

Data import.
Dynamic analyses.
Mud loss, flowmeter, well test, production data.
Fracture analysis, fault analysis.

MODELING, EQUIVALENT PARAMETERS COMPUTATION ANALYSES (“MEMBER” CASE STUDY) — 1 day

Fracture and fault modeling/DFN generation.
Diffuse fractures and sub-seismic faults.
Quality control.
Equivalent parameters computation for fracture network (Phi Block size, Kx, Ky, Kz).
Local analytical upscaling.
Full field analytical upscaling.

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