

Training - Petroleum Systems: Hydrocarbons from Source Rock to Reservoirs



GEOCHIM-EN-P



Face-to-face only



5 days

To gain a greater understanding of important geological processes in a petroleum basin, this course provides an understanding of various geochemical techniques, leading to sedimentary basins' hydrocarbon potential evaluation and to the identification of hydrocarbon migration pathways

Level

Knowledge

Public

Geologists, geophysicists or geochemists involved in petroleum potential evaluation or in reservoir management

Objectives

Attendees will be able to implement the following skills:

- Review the petroleum system concept and associated processes
- Get practical insights of basic analysis of geochemical data and reports
- Assess and analyze geochemical data in order to evaluate source rock potential and maturity

Pedagogical & technical resources

Lectures and hands-on activities: several exercises and case studies

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 PETROLEUM SYSTEMS

1 day

SOURCE ROCKS: FORMATION & DISTRIBUTION

1 day

Formation of source rocks:

- Type of organic matter.
- Distribution of source rocks in space & time.

FROM SOURCE ROCK TO ACCUMULATION

1 day

Formation of Oil & Gas:

- Methods for evaluation of the source rocks.
- Modeling of hydrocarbon formation.
- Migration.

MOLECULAR FOSSILS, BIOMARKERS

1 day

Concept of "biomarker":

- Analytical methods.
- Markers of origin and environments.
- Oil/source rock correlation.
- Maturity parameters.
- Oil spill survey.

ALTERATION IN RESERVOIRS

0.5 day

WORKSHOP ON A PETROLEUM SYSTEM

0.5 day

SUMMARY, SYNTHESIS & WRAP-UP

The petroleum system of South Atlantic Ocean.

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