

HUNTING FOR OIL: EXPLORATION AND PRODUCTION TECHNIQUES

OBJECTIVES

The course presents all exploration, development and production techniques involved in the upstream business. With the support of a computer assisted game, the tools used in the upstream petroleum industry will be introduced and manipulated, in order to acquire the vocabulary and the understanding of the techniques. Participants are invited to play roles in a business unit team, each of them will have the opportunity to get familiarized with different positions of an exploration / production company.

At each step of the game, uncertainties in the techniques and in the business will be introduced and assessed. Uncertainty is also part of the final evaluation of the business unit performance.

On completion of the course, the participants will be able to:

- understand the main stakes related to the upstream business,
- manipulate the main tools used in Exploration, Development and Production,
- share concepts and techniques with different disciplines and integrate efficiently a working team,
- evaluate uncertainties and limits behind data and interpretations,
- understand the decision trees process from data-room and commitment to production and selling products.

COURSE CONTENT

The workshop program depends on the team work, the strategy used and the efficiency to interpret results.

The "DALLAS" (IFP Training property) software package will be used to manage all non technical inputs and trace the strategy and the economical value of the company.

In addition, series of short exercises will be proposed to highlight key points (log response, mapping, cut-off, OWC definition, OOIP calculation and pitfalls, etc).

INTRODUCTION TO THE GAME. GOALS AND EXPECTATION 1 day

Theory: Place of exploration, development and production in the petroleum industry

Geological contexts of the hydrocarbon research & reservoir characterization

Techniques and tools in exploration development

Work-shop 1: Data-room / Call for tenders

INTRODUCTION TO GEOPHYSICAL METHODS 1 day

Work-shop 2: Commitment and J.O.A

Theory: Seismic reflexion methods (theory, data acquisition, processing, interpretation)

Work-shop 3: Seismic campaign interpretation

DRILLING, WELLSITE GEOLOGY, WIRELINE LOGGING 1 day

Work-shop 4: Drilling and result interpretations

Theory: Well evaluation (OOIP) (Deterministic and stochastic approaches)

Work-shop 5: Drilling and appraisal

MAPPING EXERCISES. UNDERSTANDING THE RESERVOIR: SEDIMENTOLOGY, TECTONICS 1 day

Work-shop 6: Drilling and Development plan

Theory: Reservoir evaluation: identification of the traps, timing, preservation of the play

Work-shop 7: Field development. Enhanced recovery

RESERVOIR ENGINEERING 1 day

Work-shop 8: Production. Surface facilities

Work-shop 9: Conclusions, presentation of team results

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▲ Who should attend?

Geologists, geophysicists and reservoir engineers, with no or a few year experience, who need to acquire a full view of the exploration, development and production workflow, in particular those who will be involved in multidisciplinary teams.

▲ Duration

5 days

▲ Dates & Location

November 16-20, 2009
Rueil-Malmaison (Paris)

▲ Registration

Fees: €2,570

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