

E- 260

▲ Who should attend?

Engineers and experienced technicians, wishing to acquire comprehensive knowledge in geological techniques applicable to reservoir engineering and production.

▲ Duration

20 days

▲ Dates & Location

**September 22 to
October 17, 2008**

Rueil-Malmaison (Paris)
Roda (Spain)

▲ Tuition Fees

€ **8,580**

▲ Course Coordinator

Bernard MICHAUD

Ref. **RES / GEOL**

RESERVOIR GEOLOGY (MODULE I)

OBJECTIVES

At the end of the course, the participants are able to:

- know the generating processes and the characteristics of hydrocarbon reserves
- analyze and validate the data required for reservoir characterization
- quantify the hydrocarbons in place in the reservoirs
- understand the processes and the calculation of hydrocarbon reservoir

COURSE CONTENT

PETROLEUM SYSTEM & RESERVOIR **1 day**

GEOPHYSICS AND RESERVOIR GEOPHYSICS **2 days**

Seismic acquisition, processing and interpretation
Reservoir geophysics

PETROPHYSICS **2 days**

Core data, Porosity, Saturation, Wettability, Capillary pressure
Laboratory measurements

WELL LOGGING AND INTERPRESTATION **5 days**

Basic interpretation concepts
Well-site setup and log record operation
Principle and limitation of logging tools
Qualitative log interpretation (Lithology, Vsh, Porosity, Saturation)
Pressure measurements applications

RESERVOIR CHARACTERIZATION **2 days**

Reservoir architecture
Static and dynamic approach
Heterogeneities

FIELD TRIP ON CLASTIC AND CARBONATE RESERVOIRS **3 days**

Reservoir field observation on outcrops (Clastic formations: from alluvial fan to deep sea fan)
Data integration, Reservoir modeling exercice

CALCUL O.H.I.P (PROJECT) **2 days**

OHIP estimation. Uncertainties

GEOLOGICAL MODELING AND RESERVOIR SYNTHESIS **3 days**

Geostatistics: deterministic and stochastic models

Course fees include accommodation & transport during the field trip in Spain but do not include travel between Paris and Toulouse.