



Course Code 44-412117-1

## Subsurface Data Evaluation and Integration (SDI)

### Course Overview

One of the key issues in exploration and production is the extent to which specialists have become isolated in their work, due to the advanced nature of their disciplines and the complexity of methods and language used. This can lead to a breakdown in communication between disciplines and loss of potential problem-solving capabilities.

This workshop aims to provide a mechanism to overcome some of those communication barriers and facilitate collaboration, coordination, cooperation and co-creation between the disciplines. We need to step back and rediscover the analytical methods at our disposal and learn how they can be used to solve the problems that we face in exploration and production studies.

### Who should attend?

This course has been designed for geologists, geophysicists, reservoir engineers, petrophysicists and reservoir modellers who need to understand about the data provided by other disciplines and how best to integrate the data between disciplines.

### Topics covered

By the end of the course, participants will understand the following about the main data types in the industry, namely: potential fields geophysics, seismic data, log data, core data, and well test and production data.

- The source of the data: how is the data generated and processed?
- Acquisition and processing pitfalls: what kind of acquisition and processing errors / problems / pitfalls might we expect with these data? What would the impact be and can we avoid the acquisition and processing errors / problems / pitfalls?
- Analytical methods that use the data: what analytical methods use these data and who does the analysis?
- Deliverables generated by these methods: what are the deliverables of each analytical method, and how do we know they are robust and reliable?
- Questions addressed by deliverables: what questions can we answer with these deliverables? What do these deliverables tell us?
- Users: who should use these deliverables?
- When should we apply these methods: at what stage of the work-flow should we generate or use these deliverables?
- Limitations and uncertainties of the deliverables: what technical limitations does each deliverable have and how could we reduce the uncertainties and technical limitations?
- Application in your company: determine where and when these deliverables are being used or should be used in your company

**Duration : 5 Days (40 hours in total, assuming an 8-hour day)**

