



# EXPLORATION IN CARBONATE RESERVOIRS & TARGETS IN THE MEDITERRANEAN BASIN

## Overview

This course focuses on understanding the main concepts and techniques used in the modern industry when exploring for carbonate reservoirs. The course will give an overview on the controls on the 3D geometries and internal organisation of carbonate platforms, on their seismic expression, on the petroleum systems associated to this play and on the key data and tools needed for assessing carbonate exploration prospects.

The course also features exploration in Mediterranean targets. The Mediterranean Sea is bounded by a series of thrust belts but also characterized by rifting basins that evolved before, during and after the main compressional stages. Hydrocarbons have been discovered in most of the basins that cover the present-day Mediterranean Sea, in reservoirs that span from Triassic to Pleistocene nevertheless the area is still under explored.

The course aims at reviewing the geological evolution of the area, understanding the relationship between the different sedimentary basins, revisiting the results of the previous exploration history and of the proven HC plays. The course also aims to identify areas that have not been completely explored or old or new plays that have not been fully assessed and explored.

The course is organised in a series of sections that will cover all the subjects starting from concepts and then using exercises based on subsurface datasets. During the course there will be an extensive discussion about case histories using subsurface data.

## Objectives and Key Outcomes

The course is delivered interactively through engaging class lectures, presentations, practical exercises and projects which help participants to understand the Exploration Targets in the Mediterranean Basin and Exploration in Carbonate Reservoir systems.

By the end of the course, delegates will be able to learn:

- ❖ Regional Geological framework and geological evolution of the sedimentary basins.
- ❖ Previous exploration activity: targets and results by basin.
- ❖ Main HC discoveries & proved play types.



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- ❖ Play types distribution.
- ❖ Where the next exploration activity?
- ❖ Characterize and confidently address the issues specifically related to the exploration of carbonate reservoirs.
- ❖ Integrate a variety of wireline log and stratigraphic data with seismic datasets through carbonate formations using sequence and seismic stratigraphic principles.
- ❖ Develop exploration concepts using knowledge of carbonate depositional facies and sequence stratigraphy.
- ❖ Evaluate trap styles, structural setting and the controls on reservoir quality in carbonate-dominated settings at a range of scales.
- ❖ Integrate datasets of various kinds to intelligently generate play concepts and generate parameters for use in carbonate prospect generation and evaluation.

### Who Should Attend?

Exploration geoscientists in new venture teams and allied disciplines engaged in petroleum exploration in basins where carbonate rocks are present.

### Course Duration

5 days