

Sequence Stratigraphy & Applied Biostratigraphy for Exploration

COURSE OVERVIEW

This course provides a basic understanding of sequence stratigraphy and applied biostratigraphy as essential tools for hydrocarbon exploration and basin analysis. It covers the principles of stratigraphic frameworks, depositional sequences, systems tracts, and chronostratigraphic correlation, integrating seismic, well-log, core, and bio stratigraphic data. Emphasis is placed on applying these concepts to exploration and production workflows, enabling participants to predict reservoir, source, and seal distribution within sedimentary basins.

WHO SHOULD ATTEND?

The course is designed for geoscientists, exploration and production geologists, stratigraphers, sedimentologists, and geophysicists involved in petroleum exploration, basin modeling, or reservoir characterization. It is also beneficial for early-career professionals seeking to strengthen their technical foundation, as well as experienced staff aiming to refine their interpretation skills and integrate multidisciplinary datasets in exploration decision-making.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Develop a strong understanding of sequence stratigraphic concepts and their application in exploration.
- Apply bio stratigraphic techniques for high-resolution age dating, correlation, and depositional model building.
- Integrate seismic, well, and bio stratigraphic data for basin-scale and field-scale interpretation.
- Enhance predictive capabilities for reservoir, source rock, and seal distribution.
- Strengthen interdisciplinary collaboration between geology, geophysics, and biostratigraphy teams.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Practical integration of sequence stratigraphy and biostratigraphy in exploration workflows.
- Hands-on exercises using seismic, well-log, and bio stratigraphic datasets.
- Case studies from diverse basins worldwide.
- Techniques for improving exploration risk assessment and reducing uncertainty.
- Guidance from experienced instructors with industry and research backgrounds.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded