

# Geomodelling and Seismic Interpretation Techniques

## COURSE OVERVIEW

This course provides a comprehensive introduction to geomodelling and seismic interpretation, focusing on the integration of geological, geophysical, and petrophysical data to construct accurate subsurface models. The course emphasizes both theoretical foundations and practical workflows used in the oil and gas industry, mining, and environmental geoscience projects. Participants will explore advanced techniques in seismic data analysis, structural and stratigraphic interpretation, reservoir characterization, and the application of geomodelling software tools.

## WHO SHOULD ATTEND?

The course is designed for geoscientists, geophysicists, petroleum engineers, reservoir engineers, and professionals working in exploration and production who seek to strengthen their skills in geomodelling and seismic interpretation. It is also suitable for other professionals in geology, geophysics, and related disciplines who wish to build industry relevant expertise and enhance their career prospects.

## COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Interpret and analyze 2D and 3D seismic data for structural and stratigraphic features.
- Construct and validate geo-models using integrated geological and geophysical datasets.
- Apply seismic attributes and inversion techniques for reservoir characterization.
- Evaluate uncertainties in subsurface models and make informed exploration or development decisions.
- Utilize industry-standard software for geomodelling and seismic interpretation workflows.

## KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Hands-on training with real-world seismic and well data.
- Integration of geology, geophysics, and petrophysics for robust model building.
- Practical application of seismic attributes and inversion methods.
- Exposure to industry-standard geomodelling and interpretation software.
- Case studies from exploration, reservoir development, and field management projects.

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