Reservoir Characterization: Deepwater Systems, Cores, Logs, and Seismic

COURSE OVERVIEW
This course offers an in-depth exploration of reservoir characterization in deepwater systems, with a focus on the integration of cores, well logs, and seismic data. The course emphasizes practical approaches to interpreting and integrating multiple datasets to build reliable reservoir models, reduce uncertainties, and support exploration and development strategies. Participants will gain a solid understanding of depositional processes, facies architecture, and reservoir heterogeneity in deepwater environments.

WHO SHOULD ATTEND?
The course is designed for geoscientists, reservoir engineers, Petro physicists, and exploration professionals who are involved in subsurface evaluation and reservoir modeling. It is also highly relevant for early-career professionals, and technical staff seeking to strengthen their understanding of deepwater reservoir systems and improve their skills in multi-disciplinary data integration.

COURSE OUTCOMES
Delegates will gain the skills and knowledge to:
- Analyse and interpret bed-scale deposits of particulate gravity currents including turbidites, debris flows, and hybrid event beds.
- Assess the depositional processes and predict geometrical patterns in deepwater clastic sequences from core and seismic data.
- Characterize transitional flow processes and hypothesize their spatial distribution in deepwater reservoirs.
- Evaluate turbidite architecture at bed and element scales to understand reservoir heterogeneity.
- Develop reservoir development plans based on channelization, onlap, and slope instability effects on reservoir architecture.
- Compare and apply appropriate analogue systems to model subsurface deepwater reservoirs effectively.

KEY COURSE HIGHLIGHTS
At the end of the course, you will understand;
- Deepwater reservoir geology and sedimentology including depositional systems.
- Interpretation of seismic, well logs, cores, and outcrop data in deepwater environments.
- Reservoir architecture and heterogeneity in submarine fan systems and channelized deposits.
- Impact of sedimentary processes on reservoir quality and connectivity.
- Techniques for reservoir modelling, simulation, and development planning.
- Practical applications from real-world case studies to improve reservoir management strategies.

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