

Advanced Sedimentology and Core Analysis Techniques

COURSE OVERVIEW

This course delivers an in-depth exploration of sedimentology and core analysis practices critical for oil and gas exploration and reservoir characterization. Participants will gain hands-on experience with core handling, lithological evaluation, sedimentary structure identification, and modern logging methods. The course also emphasizes ichnology, depositional environments, and sequence stratigraphy, culminating in borehole log calibration for geological mapping. Real-world case studies and expert-led sessions ensure participants gain both theoretical knowledge and practical capabilities aligned with industry demands.

WHO SHOULD ATTEND?

This course is designed for geologists, sedimentologists, reservoir engineers, petrophysicists, and technical specialists involved in sedimentary geology, reservoir modeling, and core evaluation in oil and gas operations.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Master core handling, preparation, and photographic techniques.
- Identify sedimentary structures and interpret depositional environments
- Log cores in detail, analyzing lithology, grain size, and ichnological features.
- Apply sedimentology principles to reservoir characterization.
- Integrate sequence stratigraphy in marginal marine interpretations.
- Calibrate core findings with borehole image logs for electro-facies analysis.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Practical core photography, washing, and lithology evaluation.
- Core logging focused on fluvial and marine sedimentary environments.
- Application of ichnology to interpret depositional systems.
- Analysis of deepwater sediment gravity flows.
- Sequence stratigraphy and electro-facies correlation with borehole data.

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