

## Applied Deep-Water Sedimentology and Stratigraphy

*Istanbul (Turkey)*

*19 - 23 October 2025*

UK Training

# PARTNER



## Applied Deep-Water Sedimentology and Stratigraphy

Code: OG28 From: 19 - 23 October 2025 City: Istanbul (Turkey) Fees: 4600 Pound

### Introduction

This comprehensive course delves into the latest advancements in deep-water sedimentology and stratigraphy, emphasizing their practical applications in the energy, mining, and environmental sectors. Participants will acquire in-depth knowledge of sedimentology and stratigraphy principles, focusing on the complex geological settings associated with deep-water depositional systems. By understanding the processes, products, and implications of these systems, participants will be equipped to explore, develop, and manage resources effectively in deep-water environments.

### Course Objectives

Upon completion of the course, participants will be able to:

- Demonstrate a comprehensive understanding of the core principles of sedimentology and stratigraphy.
- Analyze and interpret sedimentary facies, architectural elements, and depositional environments in deep-water depositional systems.
- Integrate sedimentological and stratigraphic data with geological, geophysical, and engineering information to develop robust exploration and development models.
- Apply advanced sedimentology techniques such as seismic interpretation, core analysis, and numerical modeling for characterizing deep-water reservoirs and depositional systems.
- Recognize and mitigate unique challenges and risks in deep-water exploration and development projects.
- Communicate complex sedimentology and stratigraphy concepts effectively to multidisciplinary teams and stakeholders.

### Course Outlines

#### Day 1: Introduction to Deep-Water Sedimentology and Stratigraphy

- Overview of deep-water depositional environments and processes.
- Tectonic and paleoceanographic controls on deep-water sedimentation.
- Principles of sedimentology and stratigraphy: An introduction to their application in deep-water systems.
- Recognition of architectural elements in deep-water facies and stratigraphy.

#### Day 2: Deep-Water Clastic Depositional Systems

- Turbidity currents and associated deposits, including turbidites, debris flows, and hybrid beds.
- Stratigraphy of submarine fans and their evolution over time.
- Analyzing channel-levee complexes, crevasse splays, and overbank deposits in the context of sedimentology.



### Day 3: Deep-Water Carbonate Depositional Systems

- Carbonate factory and platform-to-basin transitions in deep-water sedimentology.
- Slope and basin-floor carbonate depositional processes and their stratigraphic significance.
- Contourite drifts, bottom currents, and related deposits in deep-water systems.

### Day 4: Integrating Deep-Water Data and Interpretations

- Seismic facies analysis and seismic geomorphology: Techniques for interpreting deep-water depositional systems.
- Core analysis, well logs, and integrated reservoir characterization in stratigraphy.
- Advanced numerical modeling of deep-water depositional systems.

### Day 5: Applications and Case Studies

- Exploration and development of deep-water hydrocarbon reservoirs using sedimentology and stratigraphy methods.
- Application of sedimentology principles to deep-sea mining and seafloor massive sulfide deposits.
- Environmental monitoring in deep-water habitats and ecosystems.

### Conclusion

This course provides an essential understanding of advanced sedimentology and stratigraphy techniques, equipping participants with the skills to explore, develop, and manage resources in deep-water depositional systems. Through a combination of theoretical learning and practical applications, participants will gain valuable insights into the principles of sedimentology and stratigraphy, enabling them to integrate these concepts into real-world scenarios. By the end of the course, participants will be prepared to apply these skills to solve complex geological challenges in energy, mining, and environmental sectors.

Enroll now to enhance your knowledge in applied sedimentology and stratigraphy, and unlock your potential in deep-water exploration and resource management.



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