

## Applied Deep-Water Sedimentology and Stratigraphy

*Düsseldorf (Germany)*

*14 - 18 July 2025*

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# Applied Deep-Water Sedimentology and Stratigraphy

Code: OG28 From: 14 - 18 July 2025 City: Düsseldorf (Germany) Fees: 4900 Pound

## Introduction

This course provides an in-depth exploration of the latest advancements in deep-water sedimentology and stratigraphy, with a focus on practical applications for the energy, mining, and environmental sectors. Participants will gain a comprehensive understanding of the processes, products, and implications of deep-water depositional systems, equipping them with the knowledge and tools to effectively explore, develop, and manage resources in these complex geological settings.

## Objectives

- Demonstrate a thorough understanding of the key principles and concepts underpinning deep-water sedimentology and stratigraphy.
- Analyze and interpret the sedimentary facies, architectural elements, and depositional environments associated with deep-water depositional systems.
- Integrate deep-water sedimentological and stratigraphic data with other geological, geophysical, and engineering information to develop robust exploration and development models.
- Apply advanced techniques and technologies, such as seismic interpretation, core analysis, and numerical modeling, to characterize deep-water reservoirs and depositional systems.
- Recognize and mitigate the unique challenges and risks associated with deep-water exploration and development projects.
- Effectively communicate deep-water sedimentological and stratigraphic concepts to multidisciplinary teams and stakeholders.

## Course Outline

### 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 deep-water facies analysis and architectural element recognition.

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

- Turbidity currents and associated deposits e.g., turbidites, debris flows, hybrid beds.
- Submarine fans and their stratigraphic evolution.
- Channel-levee complexes, crevasse splays, and overbank deposits.

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

- Carbonate factory and platform-to-basin transitions.



- Slope and basin-floor carbonate depositional processes and facies.
- Contourite drifts, bottom currents, and associated deposits.

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

- Seismic facies analysis and seismic geomorphology.
- Core analysis, well logs, and integrated reservoir characterization.
- Numerical modeling of deep-water depositional systems.

#### Day 5: Applications and Case Studies

- Exploration and development of deep-water hydrocarbon reservoirs.
- Deep-sea mining and seafloor massive sulfide deposits.
- Deep-water environmental monitoring and habitat assessment.



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