Global Horizon
TRAINING CENTER

Training Course:
Turbidite Facies Architecture, Reservoir Applications and Predictive Stratigraphy (N107)

25 - 29 May 2026
London (UK)

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Training Course code: EN236391 From: 25 - 29 May 2026 Venue: London (UK) - Training Course Fees: 6825 Euro

Introduction

The Turbidite Facies Architecture, Reservoir Applications and Predictive Stratigraphy N107 training program is an advanced, applied geoscience course designed to strengthen participants ability to analyze, interpret, and predict turbidite depositional systems and their reservoir behavior. The program focuses on understanding the hierarchical architecture of turbidite systems from basin-scale elements to bed-scale facies and translating this knowledge into practical reservoir characterization and development strategies.

This training program is designed and delivered by Global Horizon Training Center, drawing on industry-proven concepts, integrated stratigraphic frameworks, and real-world subsurface examples. The course emphasizes predictive stratigraphy as a decision-support tool for exploration, appraisal, and field development, enabling participants to reduce subsurface uncertainty and improve reservoir performance predictions in deep-water and slope environments.

Program Objectives

By the end of this training program, participants will be able to:

- Understand the processes and controls governing turbidite deposition
- Identify and classify turbidite facies and architectural elements
- Analyze submarine fan systems and their stratigraphic evolution
- Apply facies architecture concepts to reservoir characterization
- Use predictive stratigraphy to anticipate reservoir distribution and quality
- Integrate sedimentological, stratigraphic, and subsurface data for decision-making

Target Audience

This training program is suitable for:

- Sedimentologists and Stratigraphers
- Exploration and Development Geologists

- Reservoir Geologists and Engineers
- Geophysicists involved in deep-water interpretation
- Subsurface and Asset Team Professionals
- Technical staff working on turbidite or deep-marine reservoirs

Outline

Day 1 - Fundamentals of Turbidite Systems and Depositional Processes

- Introduction to deep-marine depositional environments
- Gravity-driven sediment transport mechanisms
- Turbidity currents and related flow processes
- Classification of turbidite deposits and facies models
- Basin-scale controls on turbidite system development
- Overview of turbidite reservoirs in exploration and development

Day 2 - Turbidite Facies and Architectural Elements

- Facies types in channel, lobe, and overbank settings
- Vertical and lateral facies relationships
- Hierarchy of architectural elements in turbidite systems
- Channel-levee complexes and lobe stacking patterns
- Recognition of facies architecture in cores and logs
- Implications of facies architecture for reservoir connectivity

Day 3 - Submarine Fan Architecture and Stratigraphic Evolution

- Types of submarine fans and depositional styles
- Proximal, medial, and distal fan characteristics
- Controls on fan growth, avulsion, and abandonment

- Sequence stratigraphy in deep-water settings
- Stratigraphic surfaces and their predictive value
- Linking fan architecture to reservoir distribution

Day 4 - Reservoir Applications of Turbidite Facies Models

- Reservoir quality variations within turbidite systems
- Facies control on porosity, permeability, and heterogeneity
- Compartmentalization and connectivity challenges
- Integrating sedimentology with seismic and well data
- Turbidite reservoir modeling concepts
- Risk and uncertainty in turbidite reservoir development

Day 5 - Predictive Stratigraphy and Integrated Case Analysis

- Principles of predictive stratigraphy in deep-water systems
- Anticipating reservoir presence beyond well control
- Applying stratigraphic models to exploration and appraisal
- Integrating depositional models into development planning
- Case study discussion: prediction to field development
- Key takeaways, best practices, and strategic applications

Registration form on the Training Course: Turbidite Facies Architecture, Reservoir Applications and Predictive Stratigraphy (N107)

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Person Responsible for Training and Development

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Payment Method

☐ Please find enclosed a cheque made payable to Global Horizon

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