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FOR TRAINING

Practical Seismic Attributes Analysis & Interpretation

Oil & Gas Engineering
Tunis (Tunisia)
31 Aug - 04 Sep 2025

UK Traininig
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Practical Seismic Attributes Analysis & Interpretation

Ref: 321633_142552 **Date:** 31 Aug - 04 Sep 2025 **Location:** Tunis (Tunisia) **Fees:** 3700 Euro

Course Description

This intensive 5-day course provides a comprehensive understanding of seismic attribute analysis and interpretation techniques. Participants will learn to select, generate, and interpret various seismic attributes for enhanced reservoir characterization. The course combines theoretical concepts with practical exercises using industry-standard software.

Learning Objectives

- Understand the principles and applications of key seismic attributes
- Master attribute selection for specific geological settings
- Develop skills in multi-attribute analysis and visualization
- Apply machine learning techniques to seismic attribute interpretation
- Integrate seismic attributes into comprehensive reservoir characterization workflows

Course Modules

Day 1: Fundamentals of Seismic Attributes

- Introduction to seismic attributes
- Attribute classification and types
- Seismic resolution and bandwidth
- Attribute generation workflows

Day 2: Structural and Stratigraphic Attributes

- Coherence and variance attributes
- Curvature attributes
- Dip and azimuth attributes
- Spectral decomposition

Day 3: Reservoir Characterization Attributes

- Amplitude-based attributes
- Acoustic and elastic impedance inversion
- AVO attributes
- Attributes for fracture detection

Day 4: Multi-Attribute Analysis

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- Co-rendering and RGB blending techniques
- Principal Component Analysis PCA
- Self-Organizing Maps SOM
- Machine learning applications in attribute analysis

Day 5: Integrated Interpretation Workflows

- Attribute-based facies classification
- Direct Hydrocarbon Indicator DHI analysis
- Integrating attributes with well data
- Case studies and best practices

Practical Wins for Participants

- Ability to select optimal attributes for specific geological settings
- Proficiency in multi-attribute analysis and visualization techniques
- Skills to integrate seismic attributes into reservoir characterization workflows
- Improved interpretation accuracy and efficiency in identifying subsurface features

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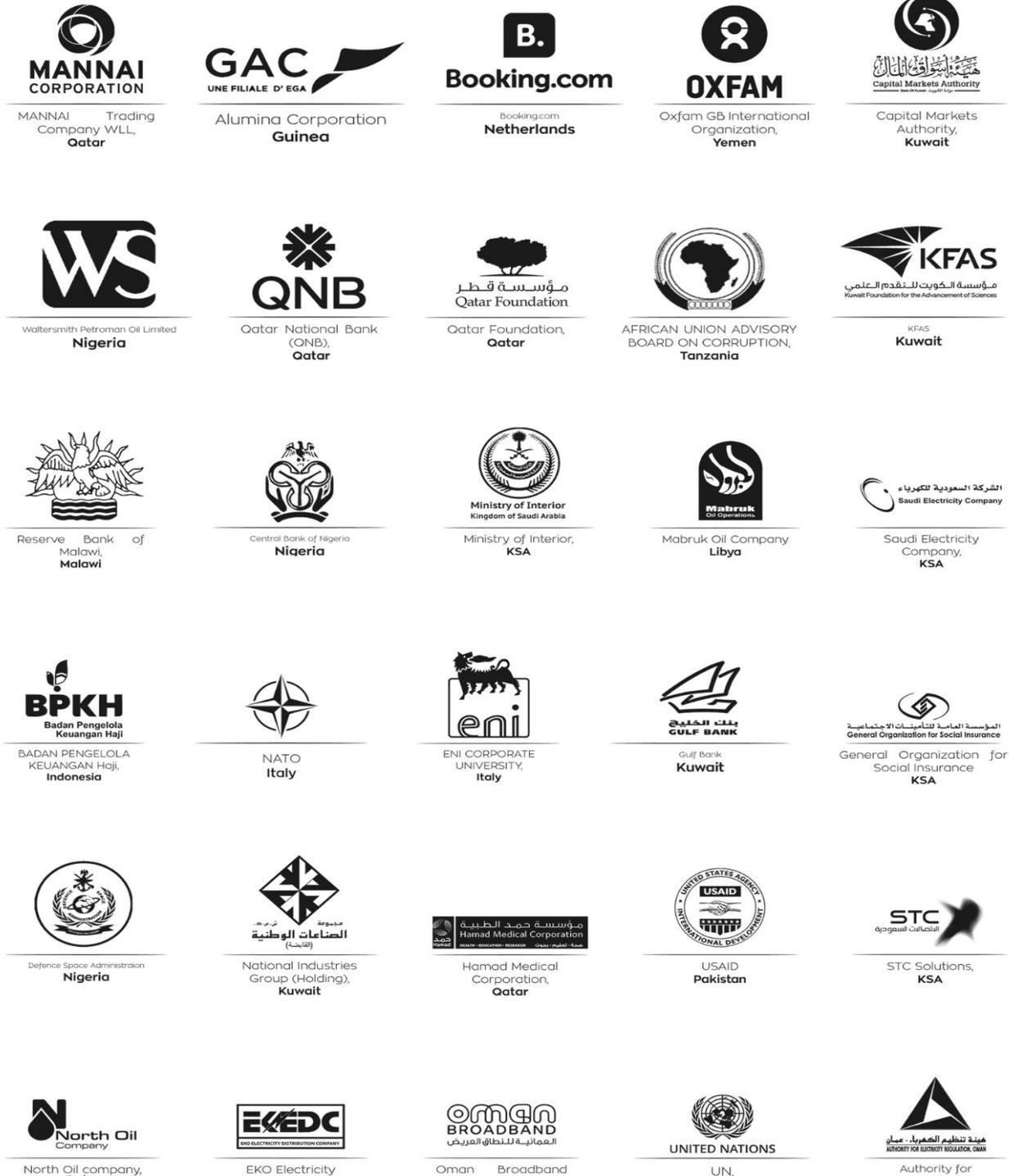
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