Global Horizon
TRAINING CENTER

Training Course:
AVO, Inversion, and Attributes: Principles and Applications - AVO

5 - 9 October 2025
Dubai (UAE)
Residence Inn by Marriott Sheikh Zayed Road, Dubai

Training Course:
AVO, Inversion, and Attributes: Principles and Applications - AVO

Training Course code: SC235155 From: 5 - 9 October 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 4900 Euro

Introduction

Welcome to the AVO, Inversion, and Attributes training program offered by Global Horizon Training Center. This comprehensive program is designed to equip participants with a deep understanding of Amplitude Versus Offset AVO analysis, inversion techniques, and attribute analysis in the field of geophysics and petroleum exploration.

Objectives

By the end of this training program, participants will:

- Understand the fundamental principles of AVO analysis.
- Learn various inversion techniques and their applications in subsurface imaging.
- Gain proficiency in interpreting seismic attributes for reservoir characterization.
- Apply AVO, inversion, and attribute analysis to real-world geophysical data.
- Enhance their problem-solving skills in geophysical exploration projects.

Methodology

This training program will employ a combination of teaching methods, including:

- Lectures: In-depth theoretical understanding of AVO, inversion, and attribute analysis.
- Practical Exercises: Hands-on experience with industry-standard software tools.
- Case Studies: Analyzing real-world data and scenarios.
- Group Discussions: Collaborative learning and problem-solving.
- Q&A Sessions: Addressing participant queries and concerns.

Target Audience

This program is suitable for professionals and students in the fields of geophysics, petroleum exploration, and related disciplines. It is ideal for:

- Geophysicists

- Geologists
- Petroleum Engineers
- Exploration Managers
- Researchers
- Graduate Students

Outlines

Day 1

Introduction to AVO Analysis

- Basics of Seismic Data
- Reflection Coefficients and Zoeppritz Equations
- AVO Principles and Interpretation
- AVO Classifications and Anomalies

Day 2

Inversion Techniques

- Seismic Inversion Fundamentals
- Pre-stack and Post-stack Inversion
- Inversion Methods and Algorithms
- Practical Inversion Exercises

Day 3

Seismic Attributes

- Introduction to Seismic Attributes
- Common Attributes and Their Interpretation
- Attribute Enhancement Techniques
- Attribute Analysis in Reservoir Characterization

Day 4

AVO and Inversion Applications

- AVO Analysis in Hydrocarbon Detection
- Case Studies: AVO Success Stories
- Advanced Inversion Applications
- Interpretation of Inverted Data

Day 5

Practical Applications and Integration

- Integration of AVO, Inversion, and Attributes
- Case Study: Comprehensive Analysis
- Challenges and Best Practices
- Certification and Closing Remarks

Registration form on the Training Course:
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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
Official E-Mail: .....

Company Information

Company Name: .....
Address: .....
City / Country: .....

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
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Payment Method

☐ Please find enclosed a cheque made payable to Global Horizon

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Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.