



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

*11 - 15 November 2024  
Rome (Italy)*

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

Training Course code: SC235155 From: 11 - 15 November 2024 Venue: Rome (Italy) - Training Course Fees: 5775 € 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: AVO, Inversion, and Attributes: Principles and Applications - AVO

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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: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
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### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
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### Easy Ways To Register

Telephone:  
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place.

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E-mail to us :  
info@gh4t.com  
or training@gh4t.com

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