



*Training Course:
Practical Depth Conversion and Depth Imaging
for the Interpreter*

*29 June - 3 July 2026
Cape Town (South Africa)
DoubleTree by Hilton Cape Town - Upper Eastside*

Training Course: Practical Depth Conversion and Depth Imaging for the Interpreter

Training Course code: EN236390 From: 29 June - 3 July 2026 Venue: Cape Town (South Africa) - DoubleTree by Hilton Cape Town - Upper Eastside Training Course Fees: 7500 € Euro

Introduction

The Practical Depth Conversion and Depth Imaging for the Interpreter training program is a specialized, application-oriented course designed to enhance the technical and interpretative capabilities of geoscience professionals involved in subsurface interpretation. The program focuses on bridging the gap between time-domain seismic interpretation and accurate depth-domain understanding, which is critical for reliable structural mapping, reservoir delineation, and well planning.

This training program is designed and delivered by Global Horizon Training Center, leveraging industry best practices, practical workflows, and real-world interpretation challenges. The course emphasizes practical depth conversion methodologies, velocity modeling concepts, and depth imaging techniques that interpreters encounter during exploration and development phases. Through guided exercises, case-based discussions, and applied workflows, participants will gain confidence in producing defensible depth models and interpreting depth-imaged seismic data for decision-making.

Program Objectives

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

- Understand the theoretical foundations of time-to-depth conversion and depth imaging
- Apply appropriate velocity models for depth conversion in different geological settings
- Interpret depth-converted seismic data with improved structural and stratigraphic confidence
- Identify uncertainties and risks associated with depth conversion workflows
- Integrate seismic, well, and geological data to build consistent depth models
- Support exploration, development, and drilling decisions with reliable depth interpretation

Target Audience

This training program is designed for:

- Seismic Interpreters
- Exploration and Development Geophysicists

- Structural and Reservoir Geologists
- Subsurface and Asset Team Members
- Geoscience Professionals involved in well planning and field development
- Technical staff seeking to strengthen depth conversion and imaging expertise

Outline

Day 1 - Fundamentals of Depth Conversion and Interpreter Perspective

- Overview of seismic time versus depth domains
- Why depth conversion is critical for interpreters
- Review of seismic velocities and their geological meaning
- Time-to-depth relationships and basic conversion concepts
- Common interpretation challenges caused by depth uncertainty
- Interpreter responsibilities in depth conversion workflows

Day 2 - Velocity Models and Geological Controls

- Types of seismic velocities: RMS, interval, average, and stacking velocities
- Geological factors influencing velocity behavior
- Building velocity models from seismic and well data
- Calibration of velocity models using checkshots and VSP
- Identifying velocity anomalies and their interpretation impact
- Practical discussion on velocity model limitations

Day 3 - Practical Depth Conversion Workflows

- Step-by-step depth conversion methodologies
- Horizon-based versus volume-based depth conversion
- Handling faults, salt, and complex structures

- Quality control of depth-converted horizons
- Managing uncertainty and sensitivity analysis
- Best practices for interpreters during depth conversion

Day 4 - Depth Imaging Concepts and Interpretation

- Introduction to depth imaging versus time migration
- Principles of depth migration and model building
- Interpreting depth-migrated seismic sections
- Structural and stratigraphic interpretation in depth domain
- Comparison between time-domain and depth-domain interpretations
- Interpretation pitfalls and risk awareness

Day 5 - Integrated Interpretation and Decision Support

- Integrating depth-converted seismic with geological models
- Depth uncertainty and its impact on prospect evaluation
- Application of depth interpretation in well placement
- Communicating depth risks to decision-makers
- Case study discussion: from seismic to drilling decision
- Final review, key takeaways, and interpretation best practices

Registration form on the Training Course: Practical Depth Conversion and Depth Imaging for the Interpreter

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

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Payment Method

- Please find enclosed a cheque made payable to Global Horizon
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