

Workshop on

"2D & 3D Seismic Reservoir Analysis"

5-Days Program

About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in your teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

About Trainer

Dr. Mohsen is our freelance foreign trainer. He has done his Ph.D and M.Sc. in Geophysics.

Experience and Association with:

- Currently he is working as a technical consultant. - Petrogulf-Misr Oil Company as Chief Geophysicist and Geophysics - Suez oil company "SUCO" as Senior Geophysicist - Red Sea/Gulf of Aden Regional Hydrocarbon project - UNDP as Senior Geophysicist - Khalda Oil Company as Development Geophysicist
He has attended: * Geology for Geophysicists-USA * GSI, Bedford, UK * Development Geology, by Merlin Petroleum consulting, Cairo * Seismic acquisition and processing, by Excomp Overseas, Cairo

* Seismic Stratigraphy work shop, London * Essentials of Seismic Exploration, by IHRDC, Cairo * Integrated Sequence Stratigraphy Workshop, by SIMON Petroleum Technology, Cairo * Charisma Software Administration and Charisma Software Interpretation, Cairo * Mapping Module (CPS Mapping Package), Cairo * Geophysical supervisor on the 3-D seismic interpretation of Ras Fanar area on Geo-Quest Workstation (IES-4 system) in Deminex Essen, Germany * AVO course Cairo * Supervision the seismic reservoir characterization and seismic trace inversion studies in Western Geophysical-London-UK * Multicomponents 4-D seismic and Shared Earth Modelling (Reservoir and Simulation studies) by Colorado Mining School from Alexandria * PSDM using Beam Depth Image and velocity modeling in PGS, Houston USA * Petrel static model and fracture reservoir modeling characteristics course from Schlumberger Cairo - 2010. As trainer, he has trained over 1000 of professionals in the field.

Course Description:

Many of our technologies are unique and patented, and offer more and detailed information from your reservoir, enabling you to make better informed, more appropriate and more accurate drilling decisions. Each package consists of a wide variety of hydrocarbon-orientated maps, linked to well and field databases, well-logs, geological cross-sections, seismic sections and technical reports. We have processed seismic data from all parts of the world. Our approach integrates geophysical, geological and petro-physical processing with modeling, analysis and interpretation into unique workflows which define prospects and drilling targets.

Training Content:

Part 1: - Field Prospects - Oil & Gas Exploration - 2D & 3D Seismic Datasets - Test and survey planning - Seismic Acquisition - Geophysical Analysis - Processing and Re-Processing of 2D and 3D seismic data - Advanced 3d Seismic Processing - Principles of 3-D Seismic Interpretation and Applications - Interpretation and identify Horizons - Stratigraphic correlation - Seismic Stratigraphy - Interpretation of Faults and structures - Map Generation and contouring - Depth conversion, kriging and mapping - Prediction of Reservoir Quality from Log-Core and Seismic Inversion Analysis - Seismic Tools for Reservoir Management

Part 2:

- Advanced Seismic Reservoir Analysis:
 - Multi component seismic interpretation - Azimuthal Anisotropy - 4-D time laps seismic & seismic reservoir monitoring - DHI (Direct Hydrocarbon Indicator) Interpretation
- Physics and AVO principles
 - Why AVO? - Wave propagation - Seismic data prerequisites
- Inversion
 - Introduction to Inversion of seismic data - Required input data - Inversion techniques and their limits - Post-stack and pre-stack inversion - Validating and interpreting inversion results - Inversion for acoustic and elastic impedance - Extended elastic impedance inversion - Impedance Inversion
- Attributes
 - Introduction - Complex trace, horizon, and formation attributes - Spectral decomposition - Coherence Attributes - Curvature Attributes - Multi-Spectral Estimates of Curvatures - Geometric attributes - Thin-Bed Reflectivity
- Reservoir properties prediction
 - Attribute classification - Techniques of prediction
 - Validation of characterization results

Part 3: - Planning for development Reservoirs - Automated 3D Seismic Analysis - 3-d seismic

The
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Industrial Training & Consulting

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