

## Workshop on

# “Deep Water Exploration: A New Era of Oil & Gas Exploration in Indus Offshore, Pakistan: Analytics And Critics” 3-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 you teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

## Trainer's Profile

Dr. Tayyab has completed his PhD in Earth Sciences. He has got practiced advanced research and development topics such as the thin-bed resolution and their impacts on the development of stratigraphic-based field development strategies.

He has been affiliated with the KUFPEC as a research geoscientist from 2013 to 2018 in the exploration department. The most significant thing is that the execution of 3D seismic attributes technology has revolutionized the

seismic data interpretation of sub-surface and heterogeneous plays. He has utilized one of the most critical and advanced seismic imaging tools named the continuous wavelet transforms (CWT) of spectral decomposition (SD) for the characterization of fluvial, deep-water and shallow-marine depositional systems. The CWT has proved to be the best tool for the detection and resolution of concerns regarding these complex depositional systems. Based on the successful execution of this tool, numerous journals are published on the clastic and carbonates petroleum systems (conventional and unconventional).

Dr Tayyab has carried out three major Electrical Resistivity Tomography system-based electrical resistivity surveys using the Schlumberger configurations via Terrameter tool for water and minerals explorations thought the Northern and Southern regions with a focus on the high mountain working experience and near shore zone of Arabian sea, Pakistan 2011-2012.

He is associated as a Research Associate in Solid Earth Geophysics domains at Center for Earthquake Studies (CES). He has worked as a Research Associate (Development of National seismic catalogue for Earthquake prediction and detections) at National Center for Artificial Intelligence (NCAI).

Four years of official experience of research work during PhD (Earth Sciences) with emphasis on the development of stratigraphic plays within the clastic and carbonates petroleum systems. Research Geoscientist (Geophysical Seismic Data Interpretation Labs).

## Training Content:

### Deep Water Reservoirs of Silici-clastic Consortium

- Deep water Reservoir Systems
- Exploration and Production Consortium
- Types of deep water petroleum plays
- Discrimination of system tracts
- Prediction of Petroleum Systems (stratigraphic or structural petroleum play)

## Tools for Oil and Gas Exploration

- Seismic stratigraphic analytics
  - Non-sedimentary reflections
  - Sedimentary reflections
- Petroleum Engineering Tools
  - Seismic Attributes Technology
  - Continuous Wavelet Transforms (CWT) of spectral decomposition.
    - Types of spectral decomposition
    - Criterion for selection and optimization of seismic attributes.
    - Critical constrains during oil and gas exploration based on CWT tool.
    - Procedure applied for Quantitative exploration of reservoir attributes with emphasis on petroleum engineering liaison.
  - CWT as a Quantitative Petroleum Reservoir Engineering and Characterization Tool for Deep water petroleum systems
    - Prediction of vertical thickness of stratigraphic trap
    - Prediction of Lithology
    - Prediction of productive zones for petroleum exploration
    - Prediction of porosity

Practical:

- 2D and 3D seismic data Interpretation
- Hands-on practical approach for seismic stratigraphic analytics
- Hands-on experience of seismic attributes analysis.
- Hands-on experience for spectral decomposition



### Contact Us

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