

# **PETREL SCHLUMBERGER**

## **(SEISMIC & WELL LOGGING)**

### **Course Contents:**

- Introduction to Niger Delta Geology
- Propagation, reflection, and refraction of seismic waves
- Data acquisition and processing with emphasis on its potential impact on interpretation
- Data loading, management and visualization
- Synthetics and well-to-seismic ties
- 3D interpretation techniques
- Fault and horizon interpretation
- Seismic attributes
- Velocity modelling and Time-Depth conversion
- Prospect identification and maturation
- Loading of well heads, logs, and mapping reservoir tops and bottoms
- Petro physical parameters of reservoir determination from Logs (Porosity, Water saturation, Thickness, NTG, Hydrocarbon saturation)
- Uncertainty analysis
- Volumetric

## **Course Objectives:**

Participants will have a good understand of:

- Basic seismic data acquisition and processing techniques
- Seismic data management & QC in the workstation environment
- Interpretation techniques using a G&G application
- Horizon and Fault Interpretation
- Velocity modelling and Time-to-Depth conversion
- Seismic amplitude analysis
- Prospect identification and maturation
- Uncertainty Analysis
- Volumetric