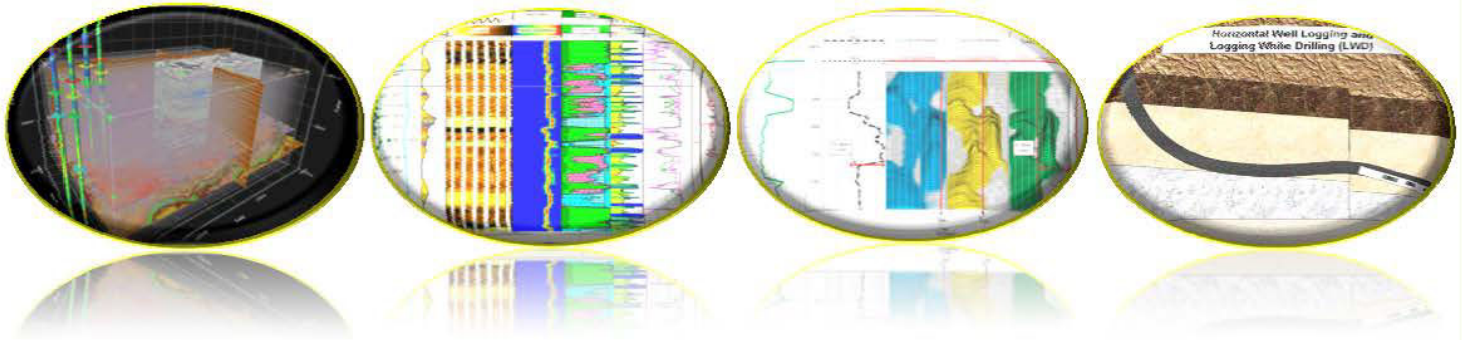
WELL DRILLING INSTITUTE

A set of industry-focussed and field-oriented training modules



TRAINING PROGRAMME:

"PETROPHYSICS"

(A 30-Credit Hours Extensive Training Programme)

COURSE CODE:

WDI-PP-004

DESIGNED FOR:

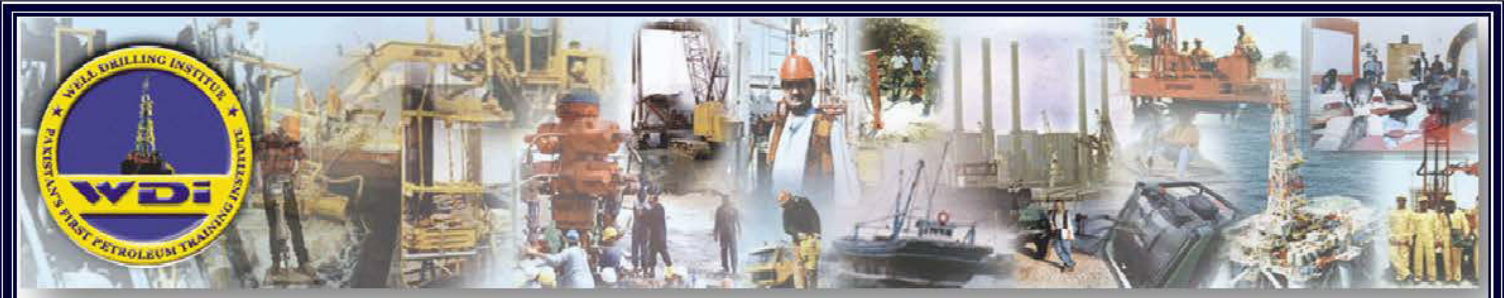
FRESH PETROLEUM ENGINEERS, GEOLOGISTS, GEOPHYSICISTS & RESERVOIR ENGINEERS

COURSE TO BE CONDUCTED AT:

WELL DRILLING INSTITUTE (WDI)

Suite # 101, 1st Floor, Arab Business Center,
Plot # 5, Bahadurabad Chowrangi, Karachi - Pakistan
Tel: 021 -34925655, 34925654
Email: wdipetroleum@gmail.com
Facebook:wdi.petroleum - Website: secura-group.com

In building good governance one can start at any point in the process — "top" or "bottom" — and produce positive results. Honest, dedicated leaders are essential, and much can be done to identify and cultivate the qualities of leadership in schools and training institutions.



Technical skill shared with educational competence...

PETROPHYSICS

WDI-PP-004

WHO SHOULD ATTEND?

This course is recommended for fresh Petroleum Engineers, Reservoir Engineers, Students of Petroleum Engineering, Geophysics and Geology disciplines and others who wish to improve their knowledge and skills in Petrophysics.

COURSE OBJECTIVES

To provide with a sound information and knowledge on how reservoir petrophysical properties are obtained from core, log and test data and how they are correlated and integrated for reservoir characterization.
Upon completion of the course participants;

- obtain reservoir properties from log Interpretation and compare them to core measurements,
- explain how to integrate core, log and well test data for reservoir modeling,
- will learn the principles and application of petrophysical methods for better understanding of the reservoir.

PEDAGOGY

Including visit of a core laboratory.

WDI is the Pakistan's 1st Petroleum Industry Training Institute, in Private sector where quality education is imparted according to the need and requirement of the E&P Industry.

WDI Short Certificate Programs (for Engineering Students, as well as for Corporate Levels) are a recommended grouping of courses within a subject area or discipline that support the development of specific knowledge and skills applicable to the workplace. Our training programs are designed, developed and updated by our highly Professional team of training experts with input of our overseas partner institutions, industry, and client/learner feedback.

Our training programs are designed for those who would like to increase their existing and working knowledge of all of the technical aspects of the Oil & Gas Industry. Those already in the industry or from ancillary Industries can increase and boost their technical understanding of the very dynamic energy business. Participants new to the industry can expect to be well prepared for many of the administrative and support-level technical positions that are in high demand today with Energy Companies.

WDI now offers a Short Certificate Program of 30-Credit Hours in "PETROPHYSICS" on regular (WEEK-DAYS & WEEK-ENDS) basis.

This course aims to provide global overview of the principles and application of petrophysical methods for a better understanding of the reservoir.

COURSE CONTENT:

1. Objectives of Petrophysics
2. Methods of obtaining Petrophysical Reservoir Data (Mud logging, Core Analysis, Open and Cased hole logs and Borehole Seismic)
3. Data Acquisition Techniques (Tools and Methods, Depth measurement, Depth of investigation and Resolution)
4. Interrelation of Petrophysics with other Exploration & Production disciplines
5. Basic Rock Properties (Porosity, Permeability, Saturation, Water and Formation Resistivity)
6. Archie's Equation
7. Dual Water Model
8. Invasion Model
9. Evaluation of Hydrocarbon in Place (HCIP)
10. Basic steps – Quick look Evaluation (Review logs, Identify Reservoir rocks, Discriminate HC zones, Gas/Oil differentiation)