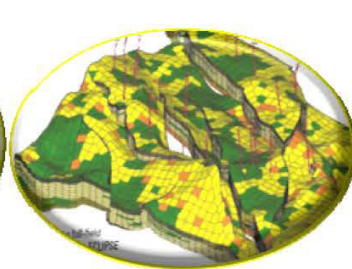
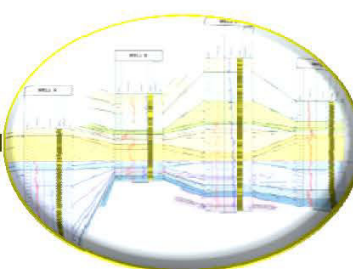
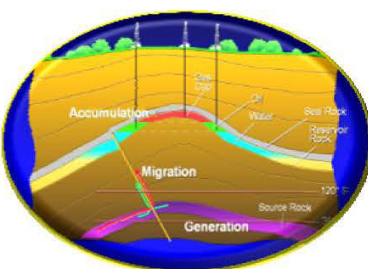


## WELL DRILLING INSTITUTE

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



### TRAINING PROGRAMME:

# “FUNDAMENTALS OF RESERVOIR ENGINEERING”

(A 30-Credit Hours Extensive Training Programme)

### COURSE CODE:

**WDI-F.R.E-003**

### DESIGNED FOR:

**FRESH PETROLEUM ENGINEERS, GEOLOGISTS,  
GEOPHYSICISTS & PRODUCTION ENGINEERS**

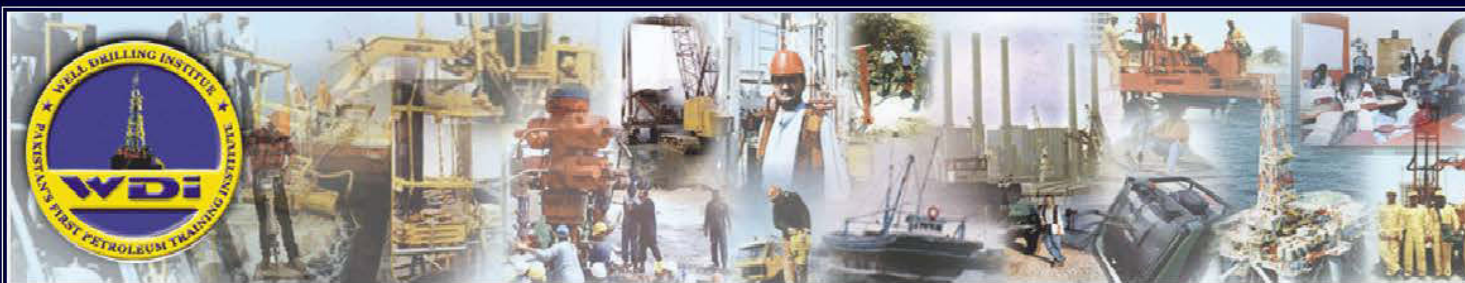
### COURSE TO BE CONDUCTED AT:

**WELL DRILLING INSTITUTE (WDI)**

Suite # 101, 1st Floor, Arab Business Center,  
Plot # 5, Bahadurabad Chowrangi, Karachi - Pakistan  
Tel: 021-34925655, 34925654  
Email: wdi@petroleum@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...**

## **FUNDAMENTALS OF RESERVOIR ENGINEERING**

**WDI-F.R.E-003**

### **WHO SHOULD ATTEND?**

This course is recommended for fresh Petroleum Engineers, Production Engineers, Students of Petroleum Engineering, Geophysics and Geology disciplines and others who wish to improve their knowledge and skills in the performance and behavior of Oil & Gas Reservoirs, specially in learning the basics of reservoir engineering and the procedures required to properly manage reservoir's development.

### **COURSE OBJECTIVES**

- to provide an understanding of main reservoir engineering concepts used in hydrocarbon development projects.
- to enable participants involved in field development and field monitoring to communicate and participate with reservoir engineers in multi-disciplinary teams.

### **PEDAGOGY**

Including visit of reservoir department of any E&P Company.

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 "FUNDAMENTALS OF RESERVOIR ENGINEERING" on regular (WEEK-DAYS & WEEK-ENDS) basis.

This course represents the core of reservoir engineering and the foundation for all future studies in this subject. 30-credit hours in-depth study of the subject is presented. Numerous engineering practices are covered ranging from fluid and rock properties to simulation and field development planning.

### **COURSE CONTENT:**

1. Introduction to Reservoir Engineering
2. Reservoir Pressures and Temperatures
3. Crude Composition
4. Behavior of Gases
5. Liquid Properties
6. Phase Behavior
7. Properties of Reservoir Rock and its Measurement
8. Fluid Flow in Porous Media
9. Material Balance Equation
10. Material Balance Application using excel sheets