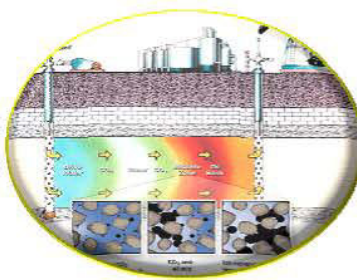


WELL DRILLING INSTITUTE

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



TRAINING PROGRAMME:

“ADVANCE DRILLING ENGINEERING”

(A 30-Credit Hours Extensive Training Programme)

COURSE CODE:

WDI-A.D.E-0013

DESIGNED FOR:

**YOUNG PETROLEUM ENGINEERS, GEOLOGISTS
& TRAINEE ENGINEERS**

COURSE TO BE CONDUCTED AT:

WELL DRILLING INSTITUTE (WDI)

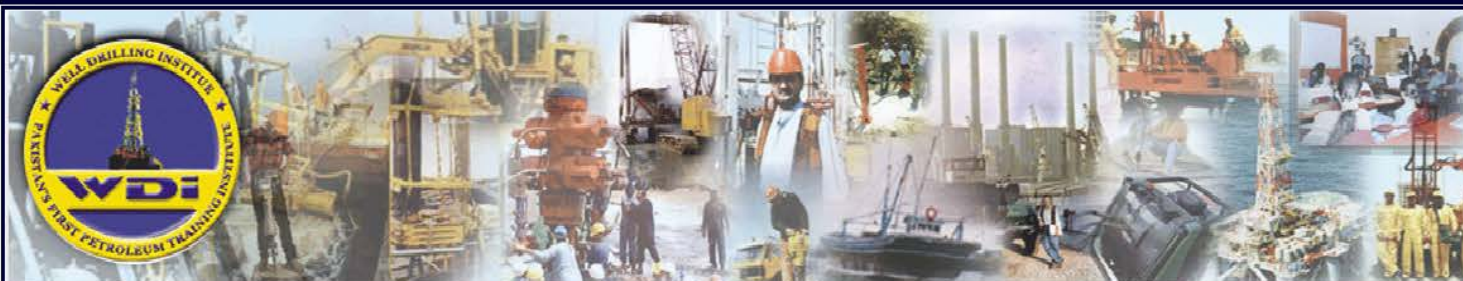
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Tel: 021 -34925655, 34925654

Email: wdipetroleum@gmail.com

Facebook: [wdi.petroleum](https://www.facebook.com/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...

ADVANCE DRILLING ENGINEERING

WDI-A.D.E-0013

WHO SHOULD ATTEND?

This course is recommended for fresh Petroleum Engineers, Students of Petroleum Engineering and Geology disciplines, as well as trainee engineers who want to gain knowledge and to understand the advance drilling techniques.

COURSE OBJECTIVES

To provide participants an overall technical know-how about advance drilling techniques and operations. Upon completion of the course, participants;

- know the overall means and material needed to drill an oil/gas well,
- know how to execute a drilling programme,
- know the different operations at oil/gas drilling rig site.

PEDAGOGY

Including Rig-site visit and Video Movies etc.

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 "ADVANCE DRILLING ENGINEERING" on regular (WEEK-DAYS & WEEK-ENDS) basis.

This course provides a technical overview of the science and art of advance drilling operations and completion practices. It also offers an overview to well planning, mud selection, BHA design and methods for estimating pore and fracturing pressures, down-hole pressure control, blow-out detection and kill methods.

COURSE CONTENT:

1. Introduction to Drilling Engineering
2. Overview of Drilling Rig Operations
3. Well Planning and Factors considered to Plan a Well
4. Geological changes and Applications of the Drilling Programme
5. Mud Selection with respect to Geology
6. Equipment Selection, Bits, BHA, Casing and Tubing
7. Pump Rate Selection for the Mud
8. BHA Design and its Applications
9. Methods for Estimating Pore and Fracturing Pressures, Down-hole Pressure Control, Blow-out Detection and Kill Methods