

“Advanced Mud School”



Motto: *Expanding our horizon in Oil and Gas sector.*

About Course:

*Business and Finance People, Oil and Gas wing, brings for you “**Advanced Mud School**”; a comprehensive specialized diploma program covering deep practical, analytical, theoretical and hands-on depicted experience of Drilling fluid in Oil and Gas sector. This course by BFP Oil & Gas wing, **member of prestigious IADC (International Association of Drilling Contractors), accredited by IACUS (International Accreditation Center of United States) and approved provider of The CPD Group UK**, is a perfect way to advance the higher scale of your career for Mud Engineers, Drilling Engineers, Drilling Fluid Specialists, Wellsite Supervisors, Advanced level technical engineers. Leading by highly qualified trainer, this course is designed to better equip you with the most important attributes of Mud Engineering in Advanced stages.*



Who should apply:

- *People who are already working in Oil and Gas or Geothermal sector and want to enhance their career.*
- *Experienced professionals who want to upgrade their skills and diversified their experiences.*
- *Mud Engineers, Drilling Engineers, Drilling Fluid Specialists, Wellsite Supervisors, Advanced level technical engineers.*
- *Those who are fancy to get the diploma certification from an organization which is proudly a member of IADC (International Association of Drilling Contractors), accredited from IACUS (International Accredited Centre of United States) and approved provider of the CPD group UK.*
- *“This diploma is a life-long investment”, every member of our society could reap better benefits out of this diploma program.*

Course Duration and timings (tentative):

- *Duration: 2 weeks having 8 exclusive sessions (Online).*
- *Starting date is 10th November 2025. (every Monday, Tuesday and Friday)*
- *Live per session timings are 1 hour 30 minutes. (Inclusive mini-breaks)*
- *Starting 7:30pm Dubai Standard Time or 8:30pm Pakistan Standard Time.*

Fee Procedure:

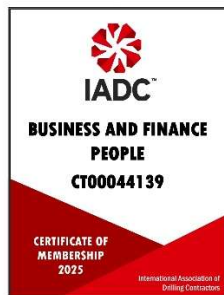
- *Fee: Rs. 35,000 (local community), USD 200 (International audience)*
- *Fee should be paid prior to the start of course.*
- *Fee should be paid to the Fayal Bank having AC title: Business and Finance People, AC no: 3051301000011985 or IBAN: PH92FAYS3051301000011985, Swift code: FAYSPKKA, Bank address: Bahria town, Lahore Pakistan*
- *Group discount of 10% will be allotted to every member if the group members are 3 or more than 3 at the time of enrollment.*
- *Diploma certificate will not be issued till all outstanding dues are cleared.*
- *There are no hidden charges other than the above-mentioned charges.*
- *Diploma certificate from Business and Finance People having the IADC, IACUS and the CPD group badge mark will be provided after completion.*





Program accreditation:

*Business and Finance People is esteem member of **IADC** (International Association of Drilling Contractors), accredited from **IACUS** (International Accreditation Center of United States) as well as the approved provider of **the CPD group UK**.*



Course Contents:

Module 1: Advanced Drilling Fluid Fundamentals

Review of drilling fluid functions and classifications

Rheology and gel strength analysis

Plastic viscosity and yield point optimization

Impact of temperature and pressure on fluid behavior

Fluid loss mechanisms and control strategies

Module 2: Advanced Water-Based Mud (WBM) Systems

High-performance WBM formulations

Shale inhibition and wellbore stability chemistry

Role of polymers and nanoparticles in WBMs

Managing contaminants and solids control

Case studies: HPWBM in unconventional wells





Module 3: Oil-Based and Synthetic-Based Muds (OBM/SBM)

OBM/SBM composition, emulsification, and stability

Electrical stability and emulsion testing

Lubricity and thermal stability enhancement

Environmental compliance and cuttings management

Comparative performance evaluation: WBM vs. OBM vs. SBM

Module 4: Specialized Mud Systems

Brine-based and salt-saturated systems

High-temperature / High-pressure (HTHP) mud design

Managed pressure drilling (MPD) fluids

Cement spacer and displacement fluids

Reservoir drilling fluids (RDF) and drill-in fluids

Module 5: Solids Control and Waste Management

Advanced solids control equipment and configurations

Mud cleaning optimization (shakers, centrifuges, desanders)

Waste minimization and fluid recovery

Cuttings re-injection and zero-discharge practices

Module 6: Mud Testing and Quality Control

Density, rheology, and filtration tests

Oil/water ratio and electrical stability

Retort analysis, pH, salinity, calcium, and alkalinity tests

HTHP fluid loss and sag testing

Solids analysis and contamination treatments





Module 7: Hydraulics, Hole Cleaning & Wellbore Stability

Advanced hydraulics modeling

Annular velocity and pressure loss optimization

ECD management and surge/swab control

Cuttings transport and bed formation

Borehole stability models and inhibition techniques

Module 8: Mud Contamination, Troubleshooting & Field Problems

Common field issues (calcium, salt, cement, gas, oil contamination)

Root cause analysis and corrective treatments

Foam, sag, and emulsion instability

Best practices for fluid maintenance in field operations

Module 9: Digital Mud Engineering, Case Studies & Automation

Real-time fluid monitoring systems

AI and data analytics in fluid management

Integration with rig sensors and digital twins

Mud reporting software and KPIs

Final assessment (Some changes in days of course content could be applied depending upon class progressive situation.)

Course Evaluation (Tentative and could be subject to change):

- *Minimum attendance of 60% required.*
- *Class Participation.*
- *Course Assessment.*





About Course Supervisor:

Mr. Abdulaziz Gabr, is a renowned IADC accredited Drilling fluids instructor having tremendous experience in delivering his professional knowledge to the participants in the field of Drilling Mud School and Drilling categorical programs. He is presently a Mud Technical Advisor at Apache Corporation and his expertise at Khalda Petroleum is remarkably show casing his ability to deliver larger projects,

REGISTER:



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