Training Title

GEOLOGICAL GEOSTEERING TECHNOLOGY

Training Duration

5 days

Training Venue and Dates

Geological Geosteering Technology	*5*	*03rd to 07th August 2025*	*$5,500*	*Cairo, Egypt.*

Trainings will be conducted in any of the 4 or 5 star hotels.

Training Fees

- ***5,500 US$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.***

Training Certificate

Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.

COURSE OVERVIEW

COURSE DESCRIPTION

This course is designed to provide professionals with comprehensive knowledge and skills in geological geosteering technology. The program covers fundamental concepts, techniques, and tools used in geosteering to optimize well placement and maximize hydrocarbon recovery. Participants will learn about the latest advancements in geosteering technology, data interpretation, and real-time decision-making processes.

COURSE OBJECTIVES:

- ***To understand the principles of geological geosteering.***
- ***To develop skills in using geosteering tools and technologies.***
- ***To implement effective geosteering techniques for optimal well placement.***
- ***To interpret real-time data for making informed decisions.***
- ***To ensure compliance with industry standards and best practices.***

SUITABLE FOR:

- ✓ ***Geologists***
- ✓ ***Geophysicists***
- ✓ ***Drilling Engineers***
- ✓ ***Reservoir Engineers***
- ✓ ***Geosteering Specialists***
- ✓ ***Wellsite Geologists***
- ✓ ***Exploration and Production Engineers.***

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.
Very useful Course Materials will be given.

COURSE OUTLINE :-

Day 1:

Introduction to Geological Geosteering

- ***Course Overview***
  - ***Introduction to course structure and objectives.***
  - ***Importance of geosteering in oil and gas exploration and production.***
- ***Fundamentals of Geosteering***
  - ***Basic principles and concepts of geosteering.***
  - ***History and evolution of geosteering technology.***
- ***Geological and Geophysical Basics***
  - ***Understanding rock properties and formations.***
  - ***Basics of seismic interpretation and well log analysis.***
- ***Geosteering Terminology and Concepts***
  - ***Key terms and concepts in geosteering.***
  - ***Introduction to well trajectory and target zones.***

Day 2:

Geosteering Tools and Technologies

- ***Measurement While Drilling (MWD)***
  - ***Overview of MWD technology and its applications in geosteering.***
  - ***Components and functions of MWD tools.***
- ***Logging While Drilling (LWD)***
  - ***Understanding LWD tools and techniques.***
  - ***Interpretation of LWD data for geosteering.***
- ***Geosteering Software***
  - ***Introduction to geosteering software tools.***
  - ***Overview of commercial geosteering software.***
- ***Real-Time Data Acquisition***
  - ***Techniques for acquiring and transmitting real-time data.***
  - ***Importance of data quality and accuracy.***
- ***Practical Session: Hands-On with Geosteering Tools***
  - ***Simulated exercises using MWD, LWD, and geosteering software.***

Day 3:

Data Interpretation and Well Placement

- ***Interpreting MWD and LWD Data***
  - ***Techniques for analyzing MWD and LWD data.***
  - ***Identifying key geological markers and horizons.***
- ***Well Log Correlation***
  - ***Methods for correlating well logs with geological formations.***
  - ***Techniques for real-time log correlation.***
- ***Adjusting Well Trajectory***
  - ***Making real-time decisions to adjust well trajectory.***
  - ***Techniques for optimizing well placement based on geosteering data.***
- ***Geological Modeling for Geosteering***
  - ***Building and updating geological models in real-time.***
  - ***Integrating geological data with geosteering operations.***
- ***Practical Session: Real-Time Data Interpretation***
  - ***Exercises in interpreting real-time geosteering data and making trajectory adjustments.***

Day 4:

Advanced Geosteering Techniques and Case Studies

- ***Advanced Geosteering Techniques***
  - ***Advanced methods for geosteering in complex geological environments.***
  - ***Techniques for geosteering in unconventional reservoirs.***
- ***Automation and Machine Learning in Geosteering***
  - ***Use of automation and machine learning for enhanced geosteering.***
  - ***Case studies of successful implementations.***
- ***Case Studies of Geosteering Projects***
  - ***Detailed case studies of geosteering operations.***
  - ***Lessons learned and best practices from real-world examples.***
- ***Troubleshooting and Problem Solving***
  - ***Identifying common geosteering issues and their solutions.***
  - ***Techniques for troubleshooting and optimizing geosteering operations.***
- ***Practical Session: Advanced Geosteering and Case Studies***
  - ***Hands-on case study analysis and advanced geosteering exercises.***

Day 5:

Future Trends and Continuous Improvement

- ***Future Trends in Geosteering Technology***
  - ***Emerging technologies and innovations in geosteering.***
  - ***Future trends and their potential impact on geosteering operations.***
- ***Integration with Other Disciplines***

- *Integrating geosteering with other subsurface disciplines.*
- *Collaboration with drilling, reservoir, and production teams.*

- *Continuous Improvement Practices*
  - *Importance of feedback and continuous improvement.*
  - *Implementing best practices for ongoing geosteering success.*

Case Studies, Last Day Review, Discussions & Pre & Post Assessments will be carried out.

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