

GLOBAL EXPERTS INSTITUTE FOR TRAINING.
ISO 9001-2008 TRAINING PROVISION CERTIFIED

Production Logging Specialist Well Performance & Logging Techniques

Schedule Dates:

Start Date	End Date	Place
7 Dec 2025	11 Dec 2025	Dubai – Dusit Thani Hotel

Program Introduction:

Production logging is a critical discipline in petroleum engineering, providing detailed insights into downhole conditions, fluid behavior, and overall well performance. This specialized course equips professionals with the technical expertise to plan, execute, and interpret production logging operations, enabling accurate diagnosis of well issues, optimization of hydrocarbon recovery, and informed decision-making for field development. Participants will gain a comprehensive understanding of both the theoretical and practical aspects of logging techniques, tools, and data analysis.

Program Objectives:

- ✓ Understand the fundamentals of production logging and its role in well performance evaluation.
- ✓ Identify different production logging tools and their operational principles.
- ✓ Interpret production logging data for multiphase flow characterization.
- ✓ Diagnose common well performance issues such as water production, gas breakthrough, and crossflow.
- ✓ Design production logging programs for various well types and conditions.
- ✓ Apply logging techniques to horizontal, deviated, and vertical wells.
- ✓ Integrate production logging results with reservoir and production data.
- ✓ Implement best practices for data quality assurance and troubleshooting.
- ✓ Evaluate well interventions and optimization strategies based on logging results.
- ✓ Understand safety protocols and operational challenges in production logging.

Who should attend?

- Petroleum engineers and production engineers.
- Well intervention and well services engineers.
- Logging and wireline field engineers.
- Reservoir engineers and analysts.
- Oilfield operations supervisors and managers.
- Geoscientists involved in well performance evaluation.
- Graduate engineers aiming to specialize in well diagnostics.

Program Outlines

Day One

- Introduction to Production Logging
- Fundamentals of Well Performance Analysis
- Overview of Downhole Flow Dynamics
- Production Logging Tools: Types and Functions
- Spinner Flowmeters and Velocity Measurements

Day Two

- Temperature and Pressure Logging Principles
- Fluid Density and Holdup Measurement Tools
- Multiphase Flow Interpretation Techniques
- Identifying Water Entry and Gas Breakthrough
- Crossflow and Channeling Detection Methods

Day Three:

- Data Acquisition Systems in Production Logging
- Planning a Production Logging Program
- Logging in Vertical Wells: Considerations & Challenges
- Logging in Deviated and Horizontal Wells
- High-Temperature and High-Pressure (HTHP) Logging Operations

Day Four:

- Real-Time Data Transmission and Processing
- Case Studies in Production Logging Diagnostics
- Data Quality Control and Troubleshooting
- Integration with Reservoir Surveillance Data
- Well Intervention Decisions Based on Logging Results

Day Five:

- Production Optimization Strategies
- Environmental and Safety Considerations in Logging
- Advances in Production Logging Technologies
- Digitalization and AI Applications in Production Logging
- Practical Exercises and Data Interpretation Workshop

Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

Cost Quotation in Kuwaiti Dinars

The total cost includes:

- 🌐 Instructor(s) expenses
- 🌐 Training materials
- 🌐 Certification
- 🌐 Lunch Included

Total Cost: 1600 KD per Participant

(One Thousand Six Hundred Kuwaiti Dinar)