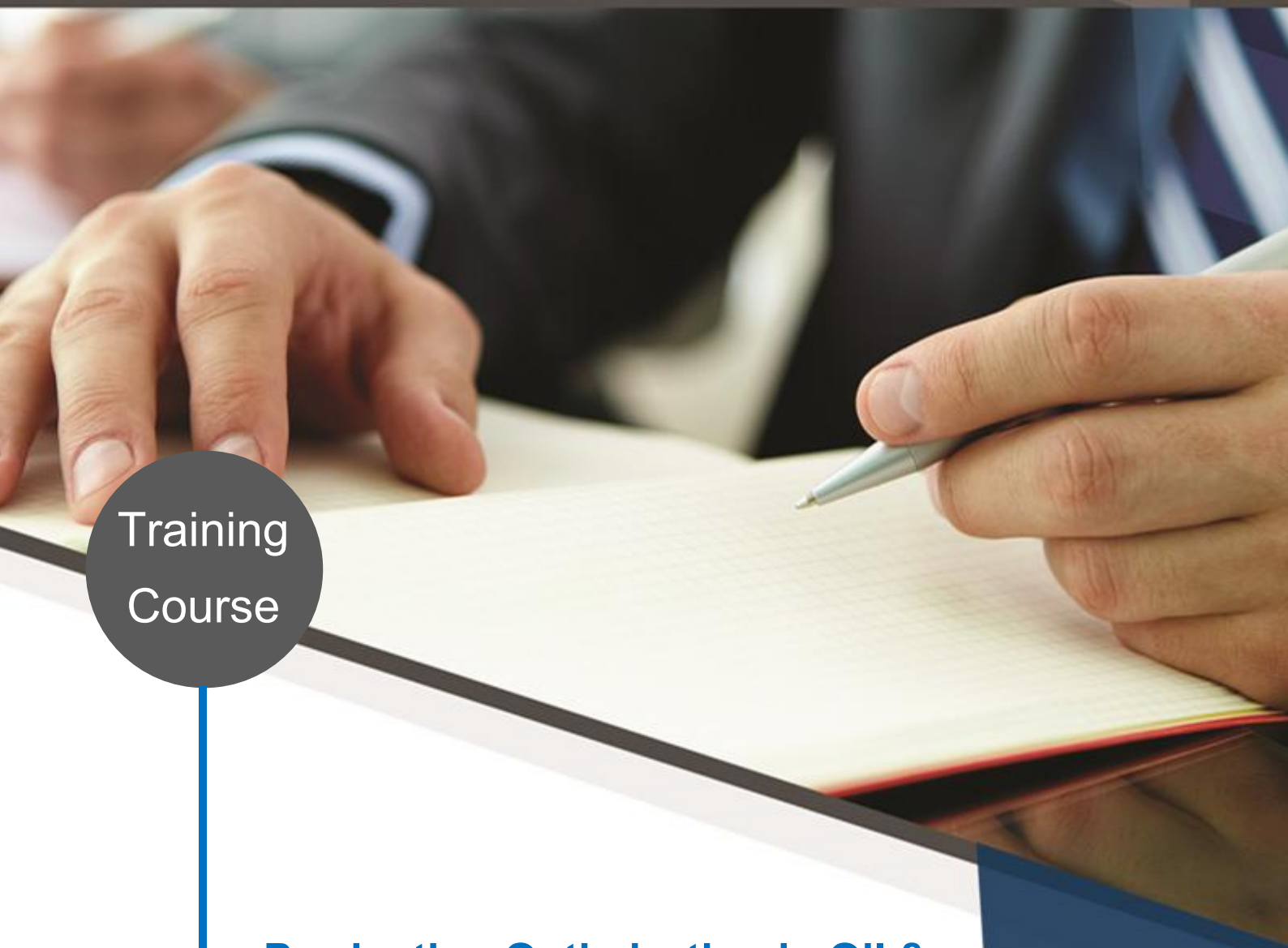
Skills International for Training & Consulting



Training Course

Production Optimization in Oil & Gas Operations

Skills International for Training & Consulting

سكلز الدولية للتدريب والإستشارات

Course Plan

Introduction

In today's dynamic energy landscape, maximizing hydrocarbon production efficiently and sustainably is more critical than ever. This course on Production Optimization in Oil & Gas Operations is designed to equip professionals with the tools, methodologies, and technologies required to enhance production performance, reduce operational costs, and extend asset life. Participants will explore real-world case studies, integrated optimization strategies, and the latest innovations in field operations, reservoir management, and artificial lift systems.

Course Objectives:

- ✓ Understand the fundamentals of production systems and constraints.
- ✓ Identify opportunities for optimizing oil and gas production.
- ✓ Analyze production data to diagnose underperformance.
- ✓ Apply integrated asset modeling techniques.
- ✓ Evaluate and select artificial lift methods.
- ✓ Implement surface and subsurface optimization strategies.
- ✓ Recognize the role of digital tools and real-time monitoring.
- ✓ Apply best practices for reducing downtime and increasing efficiency.
- ✓ Understand flow assurance challenges and mitigation techniques.
- ✓ Collaborate effectively across disciplines for holistic optimization.

Who Should Attend?

- Production engineers
- Petroleum engineers
- Field operations personnel
- Reservoir engineers
- Facility and process engineers
- Asset managers and team leaders
- Technical service providers in upstream oil & gas
- Young professionals seeking to specialize in production optimization

Training Methods:

- ✓ Online Video material.
- ✓ Presentation.
- ✓ Live Interactive sessions.
- ✓ Course presenter will make extensive use of all tools that will be needed for the virtual environment.
- ✓ Questions & Answers

Course Outline:

Day One

- Introduction to Production Optimization
- Production System Components (Reservoir, Wellbore, Surface Facilities)
- Production Performance Analysis
- Inflow and Outflow Performance Modeling
- Identifying Bottlenecks in Production Systems

Day Two

- Nodal Analysis for System Optimization
- Integrated Asset Modeling (IAM)
- Reservoir Surveillance and Monitoring
- Well Testing and Interpretation
- Decline Curve Analysis & Forecasting

Day Three

- Artificial Lift Selection and Optimization
- Gas Lift Systems: Design and Troubleshooting
- Electrical Submersible Pumps (ESP)
- Rod Pump and PCP Optimization
- Surface Facilities Optimization

Day Four

- Flow Assurance: Wax, Hydrates, and Scaling
- Sand and Water Production Management
- Production Chemistry in Optimization
- Real-Time Data Acquisition & Digital Oilfield
- Use of SCADA and Remote Monitoring Systems

Day Five

- Data Analytics and Machine Learning in Production
- Maintenance and Reliability in Production Systems
- Economic Evaluation of Optimization Projects
- Case Studies from Mature and Green Fields
- Sustainability and Emissions Reduction in Production Operations

Training Details

Course Duration	5 days
Pre-Schedule	29 Sept – 3 Oct 2025
Venue	Crowne Plaza Hottel - Geneva
Training Fees Per Person	KWD 1500 (One Thousand Five Hundred Only)
Course Fees Include	✓ Tuition documentation ✓ Curriculum and Training Handout ✓ Five star Lunch ✓ Completion Certificates ✓ Lunch Included