AMERICAN GLOBAL INSTITUTE FOR PRIVATE TRAINING

External Training Course

Rigless Operations Jobs: Techniques, Planning & Execution

From 20 Oct. To 24 Oct. 2025
From 17 Nov. To 21 Nov. 2025
From 15 Dec. To 19 Dec. 2025
From 26 Jan. To 30 Jan. 2026

Marriot Marble Arch Hotel
London, UK

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External Training Course:

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From 20 Oct. To 24 Oct. 2025 Fees: 1900 KD
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Course Overview

This intensive program provides a comprehensive understanding of rigless well intervention operations in the oil and gas industry. Participants will explore the latest techniques and technologies that enable well interventions without the use of conventional drilling rigs. The course covers planning, execution, safety, troubleshooting, and optimization of coiled tubing, wireline, snubbing, and hydraulic workover operations, with a strong focus on cost-effectiveness, safety, and operational excellence. Key Highlights:

- Detailed study of rigless technologies and their industry applications.
- Comparison of rigless vs. rig-based interventions.
- Step-by-step guidance on job design, execution, and troubleshooting.
- Practical insights from real-world field case studies.
- Strong focus on HSE standards, regulatory compliance, and risk management.

Course Objectives

By the end of the course, participants will be able to:

- Understand the principles and fundamentals of rigless well interventions.
- Plan, execute, and supervise coiled tubing, wireline, snubbing, and HWU jobs.
- Select and apply the appropriate tools and techniques for specific well conditions.
- Ensure effective logistics coordination and safety management.
- Apply troubleshooting, risk mitigation, and contingency strategies.
- Evaluate the cost-efficiency, risks, and performance of rigless vs. rig-based operations.
- Analyze and interpret operational data to optimize well performance.

Training Methodology

The program combines theory with hands-on practice using:

- Instructor-led presentations supported by industry experience.
- Case studies of successful and challenging rigless operations.
- Workshops & group exercises to apply learning in real scenarios.
- Open discussions and Q&A sessions for experience sharing.

Organizational Impact

By implementing knowledge gained from this course, organizations will:

- Enhance efficiency and reduce costs in well interventions.
- Strengthen safety culture and regulatory compliance.
- Optimize deployment of rigless technologies to maximize productivity.
- Reduce operational downtime and intervention risks.
- Build a workforce with strong technical and decision-making capacity.

Personal Impact

Participants will gain:

- Strong technical knowledge of rigless intervention methods.
- Confidence to plan and supervise complex jobs independently.
- Improved skills in problem-solving, troubleshooting, and risk management.
- Recognition as a competent professional in rigless operations.
- The ability to deliver safe, optimized, and cost-effective well operations.

Course Outline

Day 1 – Introduction to Rigless Operations

- Rigless vs. Rig-Based Interventions: Concepts & Comparisons
- Key Drivers: Cost Savings, Faster Mobilization, Remote Access
- Technologies Overview: Coiled Tubing Units (CTU), Wireline, Snubbing, HWU
- Safety Standards & International Regulatory Frameworks
- Rigless Equipment Overview: Modular Units, Surface Layouts
- Case Study: Comparing Rigless and Rig-Based Job Performance

Day 2 – Coiled Tubing Operations

- Introduction to CT Units and Surface Set-Up
- Pressure Control Equipment & BOP Arrangements
- Coiled Tubing Applications: Acidizing, Cleanouts, Nitrogen Lifting, Sand Removal, Milling Operations
- Tool Strings & Bottom Hole Assemblies (BHA): Functions & Limitations
- Conveyance Methods and Downhole Considerations
- Real-Time Monitoring & Data Acquisition Systems
- Coiled Tubing Job Design: Fluids, Pump Rates, and Pressures
- Case Study: CT Interventions in Extended Reach Wells

Day 3 – Wireline & Electric Line Interventions

- Fundamentals of Wireline Operations: Slickline vs. E-Line
- Applications: Logging, Plug Setting, Valve Manipulation, Fishing Jobs
- Advanced Tools: Production Logging, Reservoir Monitoring, Intelligent Completions
- Explosives Handling & Perforation Safety Procedures
- Perforation Techniques: Shaped Charges & Conveyance Methods
- Memory Gauges and E-Line Tools for Reservoir Surveillance
- Surface Equipment & Lubricators: Installation, Calibration, and Safety
- Case Study: Wireline Interventions in HPHT Wells

Day 4 – Snubbing & Hydraulic Workover Units (HWU)

- Principles of Snubbing & Underbalanced Operations
- Equipment: Snubbing Jacks, BOPs, Stripping Rams, Lubricators
- Pipe Handling, Stripping Operations & Live Well Activities
- Hydraulic Workover Units: Capabilities, Advantages, and Challenges
- Fishing Operations: Tubing Recovery, Cleanouts, and Re-Entry Procedures
- Pressure Control Strategies & Equipment Maintenance
- Safety & Risk Mitigation in Snubbing Jobs
- Case Study: Successful Snubbing Operation in a Live Well

Day 5 – Planning, Optimization & Troubleshooting

- Pre-Job Planning: Scope, Objectives, and Equipment Selection
- Site Readiness: Crew Briefings, Resource Allocation & Mobilization
- Risk Assessment: HAZOP Studies, PTW Systems, Emergency Planning
- Optimization: Cost Reduction, Efficiency Improvement & Best Practices
- Troubleshooting Common Failures: Tool Failures, Stuck Strings, Communication Gaps
- Contingency Planning: Backup Tools, Secondary Units, and Emergency Protocols
- Data Analysis & Post-Job Evaluation: KPIs, Reporting, and Lessons Learned
- Case Studies: Failures and Successes in Rigless Operations
- Final Workshop: Designing & Presenting a Complete Rigless Intervention Plan

Course Agenda:

1st Day Agenda

8.30	9.00	Opening Remarks (30 Min.)
9.00	11.30	Discuss Major Points Of Course: • Introduction to Rigless Operations. • Coiled Tubing Operations. • Wireline & Electric Line Interventions. • Snubbing & Hydraulic Workover Units (HWU). • Planning, Optimization & Troubleshooting.
11.30	12.00	Coffee Break
12.00	14.00	Introduction to Rigless Operations: • Rigless vs. Rig-Based Interventions: Concepts & Comparisons. • Key Drivers: Cost Savings, Faster Mobilization, Remote Access. • Technologies Overview: Coiled Tubing Units (CTU), Wireline, Snubbing, HWU. • Safety Standards & International Regulatory Frameworks. • Rigless Equipment Overview: Modular Units, Surface Layouts. • Case Study: Comparing Rigless and Rig-Based Job Performance.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

2nd Day Agenda

9.00	11.30	Coiled Tubing Operations: • Introduction to CT Units and Surface Set-Up. • Pressure Control Equipment & BOP Arrangements. • Coiled Tubing Applications: Acidizing, Cleanouts, Nitrogen Lifting, Sand Removal, Milling Operations. • Tool Strings & Bottom Hole Assemblies (BHA): Functions & Limitations.
11.30	12.00	Coffee Break
12.00	14.00	Coiled Tubing Operations: • Conveyance Methods and Downhole Considerations. • Real-Time Monitoring & Data Acquisition Systems. • Coiled Tubing Job Design: Fluids, Pump Rates, and Pressures. • Case Study: CT Interventions in Extended Reach Wells.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

3rd Day Agenda

9.00	11.30	Wireline & Electric Line Interventions: • Fundamentals of Wireline Operations: Slickline vs. E-Line. • Applications: Logging, Plug Setting, Valve Manipulation, Fishing Jobs. • Advanced Tools: Production Logging, Reservoir Monitoring, Intelligent Completions. • Explosives Handling & Perforation Safety Procedures.
11.30	12.00	Coffee Break
12.00	14.00	Wireline & Electric Line Interventions: • Perforation Techniques: Shaped Charges & Conveyance Methods. • Memory Gauges and E-Line Tools for Reservoir Surveillance. • Surface Equipment & Lubricators: Installation, Calibration, and Safety. • Case Study: Wireline Interventions in HPHT Wells.
15.00	14.30	Questions and Discussion
14.30		Buffet Lunch

4th Day Agenda

9.00	11.30	Snubbing & Hydraulic Workover Units (HWU): • Principles of Snubbing & Underbalanced Operations. • Equipment: Snubbing Jacks, BOPs, Stripping Rams, Lubricators. • Pipe Handling, Stripping Operations & Live Well Activities. • Hydraulic Workover Units: Capabilities, Advantages, and Challenges.
11.30	12.00	Coffee Break
12.00	14.00	Snubbing & Hydraulic Workover Units (HWU): • Fishing Operations: Tubing Recovery, Cleanouts, and Re-Entry Procedures. • Pressure Control Strategies & Equipment Maintenance. • Safety & Risk Mitigation in Snubbing Jobs. • Case Study: Successful Snubbing Operation in a Live Well.
15.00	14.30	Questions and Discussion
14.30		Buffet Lunch

5th Day Agenda

9.00	11.30	Planning, Optimization & Troubleshooting: • Pre-Job Planning: Scope, Objectives, and Equipment Selection. • Site Readiness: Crew Briefings, Resource Allocation & Mobilization. • Risk Assessment: HAZOP Studies, PTW Systems, Emergency Planning. • Optimization: Cost Reduction, Efficiency Improvement & Best Practices. • Troubleshooting Common Failures: Tool Failures, Stuck Strings, Communication Gaps.
11.30	12.00	
12.00	14.00	Planning, Optimization & Troubleshooting: • Contingency Planning: Backup Tools, Secondary Units, and Emergency Protocols. • Data Analysis & Post-Job Evaluation: KPIs, Reporting, and Lessons Learned. • Case Studies: Failures and Successes in Rigless Operations. • Final Workshop: Designing & Presenting a Complete Rigless Intervention Plan.
15.00	14.30	Questions, Discussion & Conclusion Training Course.
14.30		Buffet Lunch