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WELLHEAD OPERATIONS SPECIALIST: WELLHEAD SYSTEM MAINTENANCE & SAFETY

Start Date:	04/04/2027	**End Date:**	08/04/2027
Categories:	Oil & Gas	**Venues:**	Cairo
Formats:	In Person	**Instructors:**	

OVERVIEW

This specialized course provides participants with in-depth knowledge and hands-on insights into wellhead systems, focusing on their maintenance, integrity assurance, and safety protocols. With a critical role in upstream operations, wellhead systems require vigilant operation and maintenance to avoid failure and ensure safe, efficient production. This course is designed for professionals involved in field operations, engineering, or maintenance of wellhead equipment, offering best practices, troubleshooting strategies, and safety measures aligned with international standards.

OBJECTIVES

By the end of this course, participants will be able to: • Understand the function and components of wellhead systems in oil & gas operations. • Perform effective inspections, maintenance, and integrity checks on surface wellhead systems. • Identify and mitigate potential hazards and failure points in wellhead operations. • Apply safety procedures and protocols in compliance with industry regulations. • Troubleshoot common operational issues related to valves, seals, and pressure control. • Document and report wellhead maintenance activities accurately for operational continuity.

COURSE OUTLINE

1. Overview of Wellhead Systems: Functions & Classifications 2. Key Components: Casing Head, Tubing Head, Hangers, Valves 3. Maintenance Procedures: Routine Inspections and Predictive Maintenance 4. Safety in Wellhead Operations: Hazards, PPE, and Lockout/Tagout 5. Wellhead Integrity Assurance and Pressure Control 6. Troubleshooting Techniques and Failure Analysis 7. Regulatory Compliance and Documentation Practices 8. Hands-On Case Studies and Simulated Emergency Scenarios

TARGET AUDIENCE

All Supervisory Levels, Wellhead operators, field engineers, maintenance supervisors, drilling and production personnel, HSE officers, and anyone involved in the operation, inspection, or maintenance of surface wellhead systems.

METHODOLOGY

Interactive lectures, technical demonstrations, group discussions, troubleshooting workshops, equipment case studies, and safety simulations.

CONCLUSION

Participants will return to their field roles with enhanced capabilities to manage and maintain wellhead systems safely and effectively. This course equips professionals with both theoretical knowledge and practical skills to minimize downtime, ensure safety, and maintain operational excellence.

DAILY AGENDA

Day 1: Fundamentals of Wellhead Systems

Introduction to wellhead types, configurations, and pressure ratings. Review of operational standards and safety policies.

Day 2: Component-Level Analysis & Maintenance Practices

Equipment disassembly/assembly insights. Maintenance cycles, corrosion control, and best practices.

Day 3: Risk Management and Safety Protocols

Hazard recognition, emergency response procedures. Isolation procedures and wellhead control systems.

Day 4: Troubleshooting & Integrity Testing

Diagnosing performance issues and seal failures. Pressure testing, leak detection, and reporting.

Day 5: Applied Learning & Scenario Simulations

Real-life case study reviews. Team-based simulation and course review session.

For more information, please contact us:
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