€TRAINING

Best Practices in Surface Production Operations Management

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Introduction:

Surface production operations involve the processing, separation, and treatment of extracted oil and gas at the surface to ensure the delivery of marketable hydrocarbons and the safe disposal of by-products. This training program focuses on optimizing surface production operations in the oil and gas industry through the application of best practices. Through it, participants will explore methods for enhancing efficiency, maintaining equipment integrity, managing safety, and ensuring environmental compliance. The program provides actionable insights to streamline surface production processes and improve operational performance.

Program Objectives:

By the end of this program, participants will be able to:

- Apply best practices for managing surface production facilities.
- Optimize production workflows to enhance efficiency.
- Implement effective equipment maintenance and integrity programs.
- Ensure compliance with safety and environmental regulations.
- Develop strategies for continuous improvement in production operations.

Target Audience:

- Production Managers and Engineers.
- Operations Supervisors.
- Maintenance and Reliability Professionals.
- Field Technicians.
- HSE Officers in surface production facilities.

Program Outline:

Unit 1:

Fundamentals of Surface Production Operations:

- Overview of surface production facilities and processes.

- Key components: separators, pumps, compressors, and pipelines.
- Managing production rates and optimizing flow.
- Understanding fluid characteristics and behavior.
- Industry standards and guidelines for surface operations.

Unit 2:

Equipment Integrity and Maintenance:

- Best practices for maintaining production equipment.
- Implementing preventive and predictive maintenance programs.
- Identifying common equipment failures and mitigation strategies.
- Ensuring pipeline and storage tank integrity.
- Documenting and monitoring equipment performance.

Unit 3:

Production Optimization Techniques:

- Enhancing production efficiency through process improvements.
- Strategies for reducing downtime and bottlenecks.
- Using data analytics and real-time monitoring tools.
- Techniques for debottlenecking surface facilities.

Unit 4:

Safety and Environmental Compliance:

- Best practices for maintaining a safe work environment.
- Managing hazardous materials and safety risks.
- Ensuring compliance with environmental regulations.
- Spill prevention and emergency response planning.
- Safety audits and continuous improvement in HSE practices.

Unit 5:

Continuous Improvement Strategies:

- Implementing Lean and Six Sigma methodologies.
- Performance metrics and key performance indicators KPIs.
- Identifying opportunities for operational improvement.
- Engaging teams in a culture of continuous improvement.
- Developing action plans for long-term success.