

OPERATION OF OIL PRODUCTION SYSTEMS AND PROCESS UPSETS

PRD058

COURSE DESCRIPTION

This comprehensive course is designed to equip participants with the essential knowledge and skills required for the effective operation of oil production systems, focusing particularly on managing and mitigating process upsets. Participants will gain a deep understanding of the various components involved in oil production, from reservoirs to surface facilities, and learn how to navigate and troubleshoot potential challenges that may arise during operations. The course combines theoretical concepts with practical applications to ensure a well-rounded and hands-on learning experience.

COURSE OBJECTIVES

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

- Explore the entire oil production process, from reservoir characterization to surface facilities, gaining insights into the key components and their interdependencies.
- Develop a solid understanding of the principles governing the operation of oil production systems, including production optimization and safety considerations.
- Learn to identify and anticipate potential process upsets, recognizing early warning signs and understanding the factors contributing to their occurrence.
- Acquire practical skills in diagnosing and resolving process upsets efficiently, with a focus on minimizing downtime and ensuring operational continuity.
- Emphasize the importance of safety protocols and emergency response procedures in the context of oil production, with an emphasis on preventing and managing process upsets.
- Explore strategies for optimizing oil production systems to enhance efficiency, reduce operational costs, and maximize output.

WHO SHOULD ATTEND

This course is designed for professionals and engineers working in the oil and gas industry, including:

- Production Engineers
- Operations Managers
- Field Technicians
- Process Engineers
- Safety Officers
- Anyone involved in the operation and maintenance of oil production systems

COURSE DURATION

5 Working Days

COURSE OUTLINES

1. Introduction to Oil Production Systems

- Overview of oil reservoirs and types
- Exploration and drilling processes
- Surface facilities and production equipment

2. Operational Principles

- Production optimization techniques
- Safety considerations in oil production
- Environmental impact mitigation

3. Process Upsets and Their Causes

- Common causes of process upsets
- Identifying early warning signs
- Impact of process upsets on production

4. Troubleshooting and Diagnostic Techniques

- Analytical tools for diagnosis
- Root cause analysis
- Efficient problem-solving strategies

5. Safety Protocols and Emergency Response

- Importance of safety in oil production
- Emergency response planning
- Case studies on successful emergency management

6. Optimization Strategies

- Maximizing production efficiency
- Cost-effective measures
- Advanced technologies for optimization

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