



Mature Oil Field Management and Optimization

25 - 29 May 2025
Online



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Ref.: 15677_320245 **Date:** 25 - 29 May 2025 **Location:** Online **Fees:** 2500 **Euro**

Introduction:

In the dynamic and evolving landscape of the oil and gas industry, the management and optimization of mature oil fields have become crucial for maintaining profitability and ensuring sustainability. As oil fields age, their production profiles naturally decline, presenting unique challenges that require innovative solutions and strategic interventions. Mature oil field management and optimization involve the application of advanced technologies, methodologies, and best practices to enhance the efficiency and productivity of these fields.

This course delves into the comprehensive strategies and techniques essential for optimizing the performance of mature oil fields. Participants will gain a deep understanding of the factors contributing to field decline, including reservoir depletion, equipment wear, and changes in operational dynamics. It covers various topics, from enhanced oil recovery methods and advanced reservoir management techniques to implementing cutting-edge technologies and data analytics.

By exploring case studies and real-world applications, participants will learn how to devise and execute effective management plans that address the specific challenges associated with aging fields. Emphasis will be placed on integrating economic considerations, environmental concerns, and technological advancements to develop robust solutions that maximize recovery while minimizing operational costs and environmental impact.

Whether you are an experienced professional seeking to enhance your expertise or a newcomer eager to understand the intricacies of mature oil field management, this course provides the knowledge and skills necessary to navigate the complexities of optimizing oil field performance in today's competitive market.

Targeted Groups:

- Reservoir Engineers.
- Production Engineers.
- Operations Managers.
- Asset Managers.
- Field Development Planners.
- Maintenance Engineers.
- Data Analysts.
- Project Managers.
- Technical Consultants.
- Oil Field Technicians.

Course Objectives:

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

- Understand the challenges and opportunities in managing mature oil fields.
- Apply advanced techniques for optimizing reservoir performance.
- Implement enhanced oil recovery methods effectively.
- Analyze and interpret production data to drive decision-making.
- Develop strategies for equipment maintenance and reliability.
- Evaluate the economic aspects of field management.
- Assess and mitigate environmental impacts.
- Integrate innovative technologies to improve field operations.
- Manage projects and assets efficiently to maximize field productivity.
- Enhance risk assessment and management skills in mature field contexts.

Targeted Competencies:

- Reservoir Management Techniques.
- Enhanced Oil Recovery Methods.
- Production Optimization Strategies.
- Advanced-Data Analysis.
- Equipment Maintenance and Reliability.
- Economic Evaluation of Oil Fields.
- Environmental Impact Assessment.
- Technology Integration and Innovation.
- Project and Asset Management.
- Risk Assessment and Mitigation.

Course Content:

Unit 1: Understanding Mature Oil Fields:

- Definition and characteristics of mature oil fields.
- Stages of field life cycle and production decline patterns.
- Key challenges faced in mature field management.
- Impact of reservoir depletion on production.
- Historical case studies of mature oil fields.
- Economic factors influencing field management decisions.
- Importance of detailed field data and historical analysis.

Unit 2: Enhanced Oil Recovery EOR Techniques:

- Overview of EOR methods: thermal, chemical, and gas injection.
- Criteria for selecting appropriate EOR techniques.
- Design and implementation of EOR projects.
- Monitoring and optimizing EOR performance.
- Case studies showcasing successful EOR applications.
- Technical and economic considerations for EOR.
- Integration of EOR methods with existing field operations.

Unit 3: Production Optimization Strategies:

- Techniques for improving production rates in mature fields.
- Use of advanced data analytics and modeling.
- Optimization of production facilities and equipment.
- Implementation of artificial lift systems.
- Managing and reducing production costs.
- Strategies for minimizing downtime and enhancing reliability.
- Regular performance monitoring and adjustment methods.

Unit 4: Technology and Innovation in Field Management:

- Latest technologies for field monitoring and management.
- Role of digitalization and automation in field operations.
- Integration of Internet of Things IoT and smart sensors.
- Utilization of artificial intelligence and machine learning.
- Benefits and challenges of adopting new technologies.
- Case studies of technology-driven improvements in mature fields.
- Future trends and innovations in oil field management.

Unit 5: Economic and Environmental Considerations:

- Cost-benefit analysis of various optimization strategies.
- Financial modeling and forecasting for mature fields.
- Environmental regulations and their impact on field operations.
- Strategies for reducing environmental footprint.
- Assessing and managing operational risks.
- Compliance with industry standards and best practices.
- Long-term sustainability and investment considerations.



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