MERCURY

Mature Oil Field Management and Optimization Training

9 – 13 August 2027
Rome (Italy)

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

Mature Oil Field Management and Optimization Training

Ref: 15677_320235 **Date:** 9 – 13 August 2027 **Location:** Rome (Italy) **Fees:** 7200 Euro

Introduction:

In 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 productivity of these fields.

This Mature Oil Field Management and Optimization course delves into the strategies and techniques for optimizing the performance of mature oil fields. Participants understand the factors contributing to field decline, including reservoir depletion, equipment wear, and operation changes. It covers various topics, from enhanced oil recovery methods and advanced reservoir management techniques to implementing cutting-edge technologies and data analytics.

Participants in this Mature Oil Field Management and Optimization training will learn how to devise and execute effective management plans that address the challenges with aging fields. Integrating economic considerations, environmental concerns, and technological advancements to develop robust solutions that maximize recovery while minimizing operational costs and environmental impact.

Whether participants are experienced professionals seeking to enhance their expertise or newcomers eager to understand mature oil field management, this Mature Oil Field Management and Optimization course provides the knowledge and skills to navigate the optimizing oil field performance in today's competitive market. The concept of the digital oil field is a significant trend in the oil and gas industry.

The oil field lays the foundation for optimized field management in digital technologies to automate processes, improve decision-making, and increase productivity. This Mature Oil Field Management and Optimization training will illuminate how digital oil field management can be leveraged in mature oil fields to extend their life and maximize output, positioning participants at the forefront of this transformative practice.

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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 Mature Oil Field Management and Optimization 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:

By the end of this Mature Oil Field Management and Optimization training, participants competencies will:

- 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.

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

MERCURY

Oil Field Optimization Through Innovative Technology:

Oil field optimization is increasingly synonymous with employing innovative technologies in this evolving sector. Participants in this Mature Oil Field Management and Optimization course will be introduced to maximizing oil recovery and operational efficiency through technological advancements that redefine traditional practices and deliver superior results in mature oil fields.

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.

Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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.