

RESERVOIR MANAGEMENT AND PRODUCTION OPTIMIZATION

Kigali - Rwanda

17 - Aug 2026 - 21 - Aug 2026

\$5,500



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Introduction

Reservoir management and production optimization are vital disciplines in the oil and gas sector. Effective management of reservoirs ensures maximum recovery of hydrocarbons while maintaining long-term sustainability and minimizing costs. This requires a deep understanding of reservoir behavior, production techniques, and the use of advanced technologies for decision-making.

This 5-day training program, offered by Gentex Training Center, provides participants with the knowledge and tools to manage reservoirs effectively and optimize production strategies. The course blends theoretical foundations with practical applications, helping participants understand reservoir performance, evaluate production systems, and apply optimization techniques to increase recovery and operational efficiency.

Through real-world case studies, group discussions, and interactive exercises, participants will develop practical skills to balance reservoir sustainability with production goals. They will also gain valuable insights into industry best practices, modern technologies, and integrated reservoir management strategies.

Reservoir Management and Production Optimization Course Objectives

- Understand the principles of reservoir management and production optimization.
- Evaluate reservoir performance and identify key production challenges.
- Apply advanced techniques to optimize well performance and recovery.
- Use monitoring tools and data analytics to support decision-making.
- Assess enhanced oil recovery (EOR) methods and their applications.
- Integrate geological, engineering, and economic factors for effective reservoir management.
- Build strategies to extend field life and maximize asset value.



Course Methodology

This course combines lectures, interactive presentations, real-world case studies, and group discussions. Participants will engage in practical exercises that reinforce theoretical knowledge and encourage collaborative problem-solving.

Who Should Take This Course

- Reservoir engineers
- Production engineers
- Petroleum engineers
- Field development planners
- Technical managers and supervisors in oil and gas companies
- Professionals seeking to strengthen their understanding of reservoir performance and production optimization

Reservoir Management and Production Optimization Course Outlines

Day 1: Fundamentals of Reservoir Management

- Overview of reservoir management principles
- Reservoir lifecycle: exploration, development, and production
- Reservoir characterization and data acquisition
- Reservoir simulation basics
- Role of geology and geophysics in reservoir evaluation



Day 2: Reservoir Performance and Monitoring

- Reservoir pressure behavior and decline analysis
- Production logging and well testing techniques
- Material balance calculations
- Reservoir surveillance methods and performance monitoring
- Identifying challenges in reservoir performance

Day 3: Production Optimization Strategies

- Production system analysis and nodal analysis
- Artificial lift methods and selection criteria
- Well stimulation techniques: acidizing and hydraulic fracturing
- Sand control and water management strategies
- Case studies on production optimization

Day 4: Enhanced Oil Recovery (EOR) and Field Development Planning

- Principles and methods of enhanced oil recovery
- Chemical, thermal, and gas injection methods
- Economic considerations of EOR projects
- Integrated field development planning
- Risk analysis and decision-making in reservoir management

Day 5: Advanced Technologies and Future Trends

- Digital oilfield technologies: IoT, AI, and automation in reservoir management

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- Data-driven decision-making and reservoir analytics
- Sustainability and environmental considerations in production
- Future energy transition challenges and reservoir management
- Group exercise and final case study: developing a reservoir management plan

Conclusion

By successfully completing the Reservoir Management and Production Optimization course with Gentex Training Center, participants will gain a strong foundation in reservoir performance evaluation and production optimization strategies. They will be equipped with practical tools to enhance field productivity, apply advanced recovery methods, and integrate modern technologies into reservoir management practices. This knowledge will empower professionals to contribute effectively to the long-term sustainability, profitability, and competitiveness of their organizations in the oil and gas sector.

