Training Course on Integrated Field Development Planning

Professional Development Training Course Outline

Category	Development	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The **Integrated Field Development Planning (IFDP)** training course is meticulously designed for professionals in the oil and gas sector seeking to master the complexities of **optimizing hydrocarbon recovery** and maximizing asset value. This comprehensive program delves into the collaborative strategies and technical workflows essential for successful field development, emphasizing the crucial integration of geoscience, engineering, and commercial disciplines. Participants will gain a thorough understanding of the entire field lifecycle, from exploration and appraisal through production and decommissioning, equipping them with the knowledge and skills to contribute effectively to **multi-disciplinary teams** and drive efficient project execution. The course underscores the importance of early-stage decision-making, **risk management**, and the application of economic principles to ensure the viability and profitability of field development projects in today's dynamic energy landscape.

This intensive training addresses the growing need for **strategic field development** in the face of evolving technological advancements and environmental considerations. By focusing on **holistic planning**, participants will learn to navigate the intricate interplay of subsurface characterization, well design, facilities engineering, and project economics. The curriculum incorporates practical exercises and case studies to foster a deep understanding of industry best practices and the application of cutting-edge techniques. Through expert-led sessions, attendees will develop the ability to identify and mitigate potential challenges, optimize production strategies, and contribute to the creation of sustainable and economically sound **field development plans**. This course is an invaluable investment for professionals aiming to enhance their expertise in **upstream oil and gas operations** and advance their careers in this critical sector.

Programme Curriculum

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Course Duration

5 days

Course Objectives

1. Understand the fundamental principles of **Integrated Field Development Planning (IFDP)**.
2. Master the workflow and key stages of the **oil and gas field lifecycle**.
3. Develop skills in **reservoir characterization and modeling** for optimal development.
4. Learn effective techniques for **well planning and design** in field development.
5. Gain expertise in **surface facilities engineering and design** considerations.
6. Apply **petroleum economics and risk analysis** to field development projects.
7. Understand the importance of **multi-disciplinary team collaboration** in IFDP.
8. Identify and evaluate various **field development concepts and selection criteria**.
9. Learn to integrate **production forecasting and optimization strategies**.
10. Comprehend the regulatory and **environmental considerations in field development**.
11. Develop strategies for **effective project management and execution** in IFDP.
12. Utilize **data analytics and decision-making tools** in field development planning.
13. Explore **innovative technologies and enhanced recovery methods** in field development.

Organizational Benefits

- **Improved Project Efficiency:** Integrated planning minimizes redundancies and streamlines workflows, leading to faster project cycles.
- **Enhanced Decision-Making:** A holistic understanding across disciplines results in more informed and strategic investment decisions.

- **Reduced Costs:** Early identification and mitigation of risks, coupled with optimized designs, can significantly lower project expenditures.
- **Maximized Asset Value:** Effective development strategies lead to increased hydrocarbon recovery and greater profitability.
- **Better Stakeholder Alignment:** Collaborative planning fosters better communication and alignment among technical, commercial, and regulatory stakeholders.
- **Increased Innovation:** Exposure to diverse perspectives and integrated problem-solving can spark innovative solutions.
- **Stronger Team Collaboration:** Training promotes understanding and respect for different disciplines, leading to more cohesive and effective teams.
- **Enhanced Risk Management:** A comprehensive approach to planning allows for proactive identification and mitigation of potential risks.

Target Audience

1. **Petroleum Engineers:** Seeking to broaden their understanding of the entire field development process.
2. **Reservoir Engineers:** Aiming to integrate reservoir characteristics into comprehensive development plans.
3. **Production Engineers:** Involved in optimizing well performance and production strategies within a field development context.
4. **Geoscientists (Geologists, Geophysicists):** Contributing subsurface knowledge to integrated planning efforts.
5. **Facilities Engineers:** Responsible for the design and operation of surface infrastructure in field developments.
6. **Project Managers:** Overseeing oil and gas development projects and requiring a holistic understanding of the technical aspects.
7. **Commercial and Business Development Professionals:** Involved in evaluating the economic viability and strategic implications of field development opportunities.
8. **Early to Mid-Career Professionals:** Looking to enhance their skills and advance their careers in the upstream oil and gas sector.

Course Outline

Module 1: Introduction to Integrated Field Development Planning

- Overview of the oil and gas industry and the field development lifecycle.
- Importance and benefits of an integrated approach to field development.
- Key stakeholders and their roles in the IFDP process.
- Understanding the economic drivers and value creation in field development.
- Introduction to the challenges and complexities of modern field development.

Module 2: Subsurface Evaluation and Reservoir Characterization

- Geological concepts and their impact on field development planning.
- Seismic data interpretation and reservoir mapping techniques.
- Petrophysical property analysis and reservoir fluid characterization.
- Static and dynamic reservoir modeling for development planning.
- Assessment of reservoir uncertainties and their impact on development decisions.

Module 3: Well Planning and Design

- Types of wells and their applications in field development (e.g., exploration, appraisal, production, injection).
- Well trajectory design and drilling considerations.
- Well completion techniques and equipment selection.
- Well testing and data acquisition for reservoir understanding.
- Factors influencing well productivity and injectivity.

Module 4: Surface Facilities and Infrastructure Development

- Overview of key surface facilities (e.g., processing plants, pipelines, storage tanks).
- Facility design considerations based on fluid properties and production rates.
- Selection and sizing of surface equipment.
- Integration of surface and subsurface systems for efficient production.
- Health, safety, and environmental considerations in facility design and operation.

Module 5: Production Forecasting and Optimization

- Principles of reservoir flow and production mechanisms.
- Methods for forecasting oil and gas production rates.
- Techniques for production optimization and enhancement (e.g., artificial lift).
- Water and gas injection strategies for improved recovery.
- Surveillance and monitoring of production performance.

Module 6: Petroleum Economics and Risk Management

- Fundamental concepts of petroleum economics (e.g., cash flow analysis, net present value).
- Cost estimation and economic evaluation of field development projects.
- Identification and assessment of technical and commercial risks.
- Risk mitigation strategies and contingency planning.
- Decision analysis under uncertainty in field development.

Module 7: Project Management and Execution

- Phases of a field development project and their key activities.
- Project planning, scheduling, and resource management.
- Contracting strategies and procurement processes.
- Stakeholder management and communication in project execution.
- Performance monitoring and control of field development projects.

Module 8: Emerging Technologies and Future Trends in IFDP

- Application of data analytics and artificial intelligence in field development.
- Digital oilfield concepts and remote monitoring technologies.
- Enhanced oil recovery (EOR) and improved oil recovery (IOR) techniques.
- Considerations for sustainable field development and carbon capture.
- Future trends and innovations shaping the field development landscape.

Training Methodology

- **Interactive Lectures:** Delivering core concepts and principles of integrated field development planning.
    - **Case Studies:** Analyzing real-world examples of field development projects, highlighting successes and challenges.

- **Group Discussions:** Fostering collaboration and the exchange of diverse perspectives among participants.
- **Practical Exercises:** Applying learned concepts through hands-on exercises and simulations.
- **Q&A Sessions:** Providing opportunities for participants to clarify doubts and engage with the instructor.
- **Visual Aids:** Utilizing diagrams, charts, and videos to enhance understanding and retention.
- **Peer Learning:** Encouraging knowledge sharing and networking among professionals from different backgrounds.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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