MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

Oil and Gas Energy

Oil and Gas Field Development

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSDI	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

The Comprehensive Oil and Gas Field Development course offered by Magna Skills is a comprehensive training program designed to equip professionals in the oil and gas industry with the essential skills and knowledge necessary for successful field development projects. This course covers key aspects such as reservoir characterization, production optimization, facilities design, economic evaluation, regulatory compliance, and project management, ensuring participants are well-prepared to navigate the complexities of field development projects effectively.

Course Outcomes

1. **Master Reservoir Characterization:** Understand the principles of reservoir characterization and apply techniques to optimize hydrocarbon recovery, ensuring efficient utilization of resources and maximizing production output.
2. **Develop Efficient Field Development Plans:** Acquire methodologies for effective field development planning and decision-making, enabling the design of sustainable strategies aligned with project goals and industry standards.
3. **Optimize Production Processes:** Implement strategies to maximize production rates and enhance hydrocarbon recovery, ensuring optimal operational efficiency and resource utilization throughout the project lifecycle.
4.

Ensure Regulatory Compliance: Identify and address regulatory requirements and environmental considerations, ensuring adherence to industry standards and mitigating potential risks associated with non-compliance.

5. **Enhance Project Management Skills:** Apply project management principles to ensure successful execution of field development projects, including effective resource allocation, risk management, and timely delivery of project milestones.

Course Outline / Curriculum

Module 1: Reservoir Characterization

- Principles of reservoir geology
- Fluid properties and reservoir modeling techniques
- Optimization of hydrocarbon recovery

Module 2: Field Development Planning

- Methodologies for efficient planning and decision-making
- Factors influencing field development strategies
- Sustainable strategies aligned with project goals

Module 3: Production Optimization

- Maximizing production rates and enhancing hydrocarbon recovery
- Reservoir management techniques for production optimization

Module 4: Surface Facilities Design

- Principles of facilities design and integration with production systems
- Optimizing surface facilities for efficient field development

Module 5: Economic Evaluation and Feasibility Studies

- Cost estimation and financial modeling for field development projects
- Conducting feasibility studies to assess project viability

Module 6: Regulatory Compliance and Environmental Considerations

- Regulatory requirements for field development projects
- Environmental impact assessments and mitigation measures

Module 7: Risk Management

- Identification and assessment of risks associated with field development projects
- Developing risk management strategies to mitigate project risks

Module 8: Project Management and Execution

- Applying project management principles to ensure successful project execution
- Effective resource allocation and timely delivery of project milestones

Module 9: Emerging Trends and Technologies

- Adoption of digital tools and data analytics for optimized field development
- Emerging trends shaping the future of oil and gas field development

Module 10: Case Studies and Practical Applications

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Analysis of real-world field development projects

- Practical exercises in field development planning and execution

Participants in the Comprehensive Oil and Gas Field Development course will gain a deep understanding of the entire field development process, from reservoir characterization to project execution, ensuring they are well-equipped to tackle the challenges of field development projects in the oil and gas industry.

Target Audience

This is a stimulating and practical course designed for directors, managers, senior executives and decision makers involved in strategic and operational functions, including managers of procurement, finance, legal, risk and supplier relations and who want to understand how to maximise competitive advantage in the oil and gas sector

Key Course Benefits

Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

Southern Africa

Practical training destinations with strong travel access and delegate support.

- Pretoria, South Africa
- Vic Falls, Zimbabwe
- Livingstone, Zambia

East Africa

Popular regional centres for government, NGO and donor-funded project teams.

- Kigali, Rwanda
- Kampala, Uganda
- Nairobi,
- Zanzibar, Tanzania

West Africa & Islands

Strategic locations for regional networking and executive capacity building.

- Accra, Ghana
- Port Louis, Mauritius

International Executive Venue

Premium destination training for senior teams and international delegates.

- Dubai, United Arab Emirates

Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

- Online, E-Learning
- Remote Teams
- Flex

Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

- Onsite
- Custom Dates
- Group Training

Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

Register / Apply Online | **View Full Course Page**

About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training | NGO Capacity Building | Corporate Workshops | Online Learning | Face-to-Face Training | Certifica

Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

Organisation / Department	
Delegate Name(s)	
Approved Course	Oil and Gas Field Development
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____