



**ROSEBANK
INTERNATIONAL**
University College

**SHORT
LEARNING
PROGRAMME**



Downstream Petroleum Operations and Price Risk Management



COURSE OVERVIEW

Explore the strategic and operational aspects of Ghana's downstream oil and gas sector in this foundational course. Designed for professionals and enthusiasts, this programme covers refining, distribution, marketing, risk management, and environmental practices. It emphasizes local empowerment, sustainability, and the integration of emerging technologies in downstream operations.

LEARNING OUTCOMES

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

- Demonstrate understanding of downstream operations.
- Explain refining processes and gas treatment techniques.
- Assess distribution and transportation systems.
- Analyze downstream market structures and dynamics.
- Understand pricing mechanisms and risk mitigation strategies.
- Apply safety and environmental protection best practices.
- Explore emerging technologies and renewable energy integration.

COURSE CONTENT

Introduction to Downstream Operations

- Role in the oil and gas industry
- Integrated vs. independent companies
- Upstream vs. downstream models
- Product flow and market dynamics

Refining Processes

- Crude oil composition and properties
- Distillation, cracking, alkylation
- Refinery operations and product output
- Efficiency and profitability strategies

Gas Processing

- Impurity removal and sulfur treatment
- Compression and liquefaction techniques

Distribution and Transportation

- Pipelines, tankers, and chartering
- Storage infrastructure

Sales and Marketing

- Market structure and fuel distribution channels
- Specialized markets and lubricants

Risk Management and Trading

- Futures, forwards, swaps, options
- Price fluctuation strategies
- Market pricing mechanisms

Environmental and Safety Considerations

- Safety protocols and environmental protection
- Impact minimization practices

Emerging Trends and Technologies

- Efficiency and safety technologies
- Renewable energy in downstream operations
- Carbon emission reduction

Course Information

- **Course Fee:** GHC 3,000
- **Session (Days):** 3
- **Duration:** 21 Hours
- **Mode of Delivery:** In-person
- **Venue:** RIUC

Who Should Attend

- Petroleum Engineers
- Energy Policy Analysts
- Environmental Officers
- Operations Managers
- Oil and Gas Traders
- Transport and Logistics Officers
- Technical Officers
- Industry Enthusiasts

Certification

- Certificate of attendance by Rosebank International University College



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