

Upstream Oil and Gas Operations in sub-Saharan Africa



Operational Excellence in Exploration, Production, Sales and Marketing

Focus on: ☒ The Manager ☐ The Specialist ☐ Spotlight Programme ☒ Hands-on Skills ☒

Course Overview

The upstream oil and gas industry in Africa is dynamic, capital-intensive, and increasingly complex. Across West Africa (Nigeria, Ghana, Côte d'Ivoire), Central Africa (Angola, Cameroon, Chad, Congo-Brazzaville), East Africa (Kenya, South Sudan, Tanzania, Uganda) and Southern Africa (Namibia, Mozambique, South Africa), companies face challenges of deepwater exploration, frontier gas monetization, pipeline security, fiscal reforms, and price volatility.

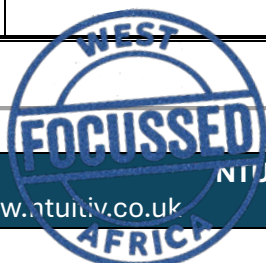
This training course equips participants with the skills to:

Navigate Nigeria's Petroleum Industry Act (PIA), Angola's PSC frameworks, and Ghana's royalty/tax regime. Analyze the economics of deepwater oil (Akpo, Jubilee, Girassol) and LNG projects (NLNG, Angola LNG, Mozambique LNG, Coral FLNG).

Address operational risks including pipeline sabotage, illegal bunkering, and community relations in the Niger Delta, as well as security in the Gulf of Guinea.

Evaluate frontier plays like Namibia's Orange Basin discoveries and their global implications.

Course Objectives		This Course is Ideal For:	
1	Gain a regional perspective of upstream oil business in Africa.	✓	Business Development Managers
2	Understand technological advances applied in African offshore deepwater and frontier basins.	✓	Corporate Planning Professionals
3	Evaluate fiscal regimes in Nigeria, Ghana, Angola, Mozambique, and South Africa.	✓	Geoscientists & Engineers (exploration, drilling, reservoir)
4	Discuss upstream contracts with clarity, confidence, and regional insight.	✓	Refinery & LNG professionals (NLNG, Sasol GTL, Angola LNG)
5	Apply petroleum economics, project evaluation, and risk analysis to African case studies.	✓	Government Regulators (DPR/NUIMS in Nigeria, GNPC in Ghana, Sonangol in Angola, ENH in Mozambique)
6	Strengthened understanding of African upstream economics and fiscal risks.	✓	Tax & Finance Advisors in upstream oil & gas
7	Improved ability to negotiate contracts with host governments and NOCs.	✓	Legal, JV, and Contracting Professionals
8	Broader technical knowledge of deepwater operations, LNG, and frontier gas.	✓	Equity Analysts and Energy Bankers



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Course Content

Day	Theme	Coverage
1	African Upstream Industry Overview	<ul style="list-style-type: none"> Introduction to African oil & gas industry Petroleum geology of West African Transform Margin (WATM), Niger Delta, and Angola's deepwater Exploration & drilling case studies: Jubilee (Ghana), Akpo (Nigeria), Girassol (Angola), Graff (Namibia) Future trends: Mozambique/Tanzania LNG frontier, Orange Basin oil play
2	Success Factors in African Upstream	<ul style="list-style-type: none"> Advances in offshore drilling, subsea systems, and FLNG in Africa Well evaluation and completions in deepwater West Africa Surface facilities: FPSOs in Nigeria, Angola & Ghana Pipeline challenges: Niger Delta sabotage, Chad-Cameroon pipeline security Maintenance and EOR in mature basins (Nigeria, Gabon, Congo) Reserves reporting and African regulatory differences
3	Managing Upstream Business Profitably	<ul style="list-style-type: none"> Reservoir management in declining basins (Nigeria, Gabon) Linkage of upstream to refining (Dangote Refinery, Sasol GTL, Sonangol Luanda) Legal frameworks: Nigeria's PIA, Angola's PSC reforms, Ghana's Petroleum Act Project economics: case examples from NLNG Train 7 and Mozambique LNG Oil price risk management in African producers (hedging, fiscal buffers)
4	Contracts & Fiscal Systems in Africa	<ul style="list-style-type: none"> Relationships between IOCs and African NOCs (NNPC, GNPC, Sonangol, ENH) Understanding petroleum fiscal systems: royalty/tax vs PSC vs hybrid Fiscal systems in Nigeria, Ghana, Angola, Mozambique, South Africa Comparison with global peers (Middle East, North America) LNG project fiscal options (e.g., Angola LNG, Mozambique LNG, Cameroon FLNG)

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5	Petroleum Economics & Risk Analysis	<ul style="list-style-type: none"> Regional petroleum dynamics: OPEC Africa (Nigeria, Angola) and frontier Africa (Mozambique, Namibia) Profitability indicators and fiscal benchmarks in Africa Risk and uncertainty in upstream African projects (price, security, political) Evaluating projects by risk-based economics (Mozambique LNG, Namibia deepwater) Group exercise: Investment decision-making for an African upstream project
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Course Assessment	Certification
Participants will be assessed on: Participation in sessions Completion of exercises & case studies Performance in assessments	Upon successful completion of the course, participants will receive a Certificate of Successful Completion , along with a Transcript of Marks showing the performance by grade in each element of assessment and overall.

Course Instructor
<p>With BSc and PhD degrees from the UK, and with over 30 years of refinery technology, operations, and management expertise for several famous-name oil companies, this speaker is now an internationally-famous chemical engineering consultant.</p> <p>As a Chartered Chemist, a Member of the Royal Society of Chemistry and a Member of the American Institute of Chemical Engineers, he holds honorary appointments at a number of European universities and conducts cutting-edge research into vacuum distillation, gas recovery, absorption and pyrolysis</p>

