International Crude Oil Markets and Trade in sub-Saharan Africa Pricing Mechanisms, Regional Trade Flows, and Market Dynamics



The Specialist Spotlight Programme Focus on: The Manager

✓ Hands-on Skills

Course Overview

www.ntuitiv.co.uk

This 5-day program provides a comprehensive understanding of crude oil and refined product markets with a regional focus on Sub-Saharan Africa. Participants will explore crude pricing systems, benchmark structures, refinery economics, regional supply chains, and the dynamics of cross-border product flows. The course blends global crude market fundamentals with the specific realities of Sub-Saharana including:

- Nigeria's role as Africa's largest oil exporter and home of Bonny Light and Qua Iboe could
- Angola's deepwater crude grades and Asia-focused exports.
- Ghana's Jubilee and TEN fields and Côte d'Ivoire's role as a product hub.
- Central African producers (Congo, Gabon, Equatorial Guinea) and their niche blends
- South Sudan and Chad's reliance on pipelines through Sudan and Cameroon.
- Refinery upgrades and new projects (Dangote, Sonangol Luanda, SIR Abidjan, Tema, Sapref in South Africa, Mozambique LNG condensates).
- South Africa as a downstream trading and refining hub for Southern Africa.

Participants will also learn about price risk management tools, hedging instruments, and the impact of global benchmarks (Brent, Dubai, WTI) on African oil exports.

Course Objectives			This Course is Ideal For:	
1	Understand the fundamentals of upstream	✓	Business Development & Corporate Planning	
	supply, crude quality, and value.		Managers	
2	Analyze pricing systems and benchmarks	✓	Geoscientists & Engineers in upstream	
	relevant to Sub-Saharan African crudes.		operations	
3	Evaluate refining processes and economics in	✓	Refinery & Trading Professionals	
	African markets.			
4	Assess regional trade flows of crude and	\checkmark	Supply Planners & Scheduling Staff	
	refined products.			
5	Apply risk management and hedging tools to	\checkmark	Government Regulators Auditors& Policy	
	African crude trading.		Makers	
6	Gain insights into the roles of NOCs (NNPC,	\checkmark	Tax & Finance Advisors and Legal Contracting	
	Sonangol, GNPC, SNH, GEPetrol, Gabon Oil		& Compliance Officers in oil & gas	
	Co.) in regional trade.		FNCUCCE	
Course Content				

Day	Theme	Coverage
1	Upstream Supply & Regional Crude	Global oil supply overview vs Sub-Saharan production
	Regional Crude	African reserves & output: Nigeria, Angola, Ghana, Congo, Gabon,
	Characteristics	Equatorial Guinea, Chad, South Sudan

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	FOCUSSED	 Crude oil assays: Bonny Light, Qua Iboe, Jubilee, Dalia, Cabinda, Djeno Fundamentals of oil economics & crude valuation Case Study 1: Comparing Nigerian Bonny Light vs Angola's Dalia for Asian refiners 	
2	Crude Oil Pricing Systems in Africa FOCUSSE FRICE	 Evolution of oil pricing systems (OPEC, spot, formula pricing) African OSPs (Official Selling Prices) and Brent linkage Spot markets, long-term contracts, and formula pricing in African exports Benchmarks: Brent and Platts West Africa assessments Fiscal regimes & agreements in oil sales (royalty/tax vs PSC-linked lifting) Case Study 2: Angola's Sonangol OSPs vs Nigeria's NNPC crude marketing 	
3	Refined Products & Regional Trade Flows	 Refinery capacity and utilization in Sub-Saharan Africa (Dangote, Port Harcourt, Tema, SIR Abidjan, Luanda, Sasol/Sapref, Maputo) Product imports vs exports: gasoline, diesel, jet, LPG Intra-African product flows: Nigeria → Niger, Benin, Togo 	
FOC.	USSED AFRICA	 Côte d'Ivoire → Mali, Burkina Faso South Africa → Botswana, Namibia, Mozambique Arbitrage & cross-regional flows to Europe & Asia Group simulation: Trading a West African crude cargo in volatile Brent markets Case Study 3: Dangote Refinery's impact on West & Central African product imports 	
4	Risk Management & Hedging	 Price risk in Sub-Saharan oil trade (Brent volatility, FX exposure) Hedging tools: futures, swaps, options, crack spreads FX hedging for oil importers/exporters (Nigeria, Ghana, South Africa) Operational risks: bunkering, piracy, sabotage (Niger Delta, Gulf of Guinea) Case Study 4: Ghana's BOST hedging program & lessons learned 	
5	Market Integration & Future Outlook EAST	 Characteristics of African energy markets: regulation vs liberalization WTO, AfCFTA, and regional oil trade harmonization Shipping & logistics laws in African crude/product trade 	

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

 Future demand & energy transition: biofuels, gas-to-power, refining upgrades
Case Study 5: Mozambique LNG condensates & new trade flows to Asia

Course Assessment	Certification
Participants will be assessed on:	Upon successful completion of the course,
Participation in sessions	participants will receive a Certificate of Successful
Completion of evereions 9 and attudios	Completion, along with a Transcript of Marks
Completion of exercises & case studies	showing the performance by grade in each element
Performance in assessments	of assessment and overall.

Course Instructor

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.

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.





