MBA Essentials of LNG and the Clean Energy Transition

Strategic Leadership in a Decarbonising Gas Economy

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

Course Overview

Liquefied Natural Gas (LNG) remains a pivotal energy vector in today's evolving global energy architecture. As governments accelerate decarbonisation, advance Vision 2030 programmes, and implement Green Deal commitments, LNG plays a dual role:

- A transition fuel supporting coal-to-gas switching
- A platform for future low-carbon molecules (bio-LNG, hydrogen, e-methane)

The LNG industry is no longer defined solely by upstream monetisation and long-term SPAs. It is now shaped by:

- Carbon intensity metrics
- ESG compliance and sustainable finance
- Portfolio flexibility and trading optimisation
- Energy security imperatives
- Regional industrial diversification strategies

This **NTUITIV Mini MBA Essentials** provides executives with a strategic, commercial and technical understanding of LNG across the full value chain — integrated with energy transition realities and sustainable investment frameworks.

Participants will explore how LNG fits into:

- National transformation strategies (Vision 2030-style agendas)
- The European Green Deal and CBAM implications
- Carbon markets and methane regulation
- Low-carbon LNG certification and financing

Course Objectives		This Course is Ideal For:	
1	Interpret LNG's evolving role within net-zero and energy transition pathways	✓	National oil & gas companies, Government regulators and policy advisors
2	Evaluate LNG projects using modern commercial, ESG and carbon-adjusted metrics	✓	Energy transition taskforces
3	Analyse global LNG trade flows and new pricing mechanisms	✓	Corporate strategy & planning teams
4	Understand low-carbon LNG, CCS integration and methane management	✓	LNG trading & commercial departments
5	Assess financing structures including green bonds and sustainability-linked loans	✓	Investment & project finance institutions Energy-focused private equity and banks
6	Navigate SPA evolution, portfolio trading and flexible contracting	✓	Legal & compliance professionals

Course Content

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Day	Theme	Coverage
1	LNG in the Global Energy Transition Landscape	• Reframing LNG: From Fossil Fuel to Transition Enabler - LNG fundamentals: physical properties and liquefaction economics - Gas versus coal: emissions comparison and transition dynamics - LNG's role in national energy diversification strategies - Energy security vs decarbonisation balance • The Modern LNG Value Chain - Upstream to downstream integration - LNG vs pipeline gas economics - Stakeholder ecosystem: NOCs, IOCs, traders, sovereign funds • Global Market Overview - Major exporters and emerging suppliers - Europe's structural LNG demand shift - Asia's long-term gas outlook - New liquefaction capacity pipeline
2	Technology, Infrastructure & Decarbonisation	• Liquefaction & Processing Technologies - Cryogenic processes and efficiency drivers - Modular & mid-scale LNG - Floating LNG (FLNG) developments • Infrastructure & Logistics - Storage and regasification systems - LNG carriers and shipping optimisation - FSRUs and rapid deployment terminals • Decarbonising LNG Operations - Carbon intensity benchmarking - Methane emissions management - Carbon capture & storage integration - Low-carbon and certified LNG
3	LNG Markets, Pricing & Commercial Strategy	• Evolution of LNG Pricing - Oil-linked contracts vs gas hubs - TTF, JKM and hybrid pricing structures - Spot market expansion • LNG Portfolio Management - Portfolio optimisation - Flexible destination clauses - Arbitrage opportunities • Risk Management in a Volatile Market

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		- Price risk and hedging - Completion and cost overrun risks - Geopolitical exposure - ESG and regulatory risk
4	LNG Project Finance & Investment in a Green Economy	• Investment Decision Framework - NPV, IRR and sensitivity analysis - Carbon-adjusted project valuation - Scenario planning under net-zero pathways • Financing Structures - Traditional project finance - Export credit agencies & multilaterals - Sustainability-linked loans - Green bonds and transition finance • Managing Mega Projects - Governance frameworks - Quality assurance & commissioning - Dispute prevention & arbitration - Integrating ESG compliance into project controls
5	Contracts, Regulation & Future Energy Integration	• LNG Contract Evolution - Modern SPAs: flexibility and indexation - FOB vs DES structures - LNG shipping agreements • Regulatory & Policy Landscape - Methane regulations - Carbon border mechanisms - Emissions reporting frameworks - National transition roadmaps • The Future of LNG - Small-scale & distributed LNG - LNG as feedstock for hydrogen - e-methane and synthetic fuels - Integration with renewables & storage - LNG in net-zero 2050 pathways

Course Assessment	Certification
Participants will be assessed on:	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.
Participation in sessions	
Completion of exercises & case studies	
Performance in assessments	

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Course Instructor
The instructor holds BSc and MSc degrees from the United States and brings over 20 years of combined experience in hospitality education and hotel management. With more than two decades of teaching experience in academia and professional training across Cyprus, alongside extensive hands-on leadership in hotel management and operations, the instructor offers a strong blend of academic insight and real-world industry expertise. Their background spans operational excellence, service quality, and strategic hospitality management, providing participants with practical, experience-driven learning grounded in international best practices.

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