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Course Name

The Gas Chain Concept- Economics

Sector Name

Procurement & Supply Chain Operations

Document Type

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The Gas Chain Concept- Economics

Course Introduction

This course provides an in-depth understanding of the **gas chain concept** from an economic perspective. It covers the entire value chain of natural gas, from exploration and production to transportation, processing, distribution, and end-user consumption. Participants will explore the key economic drivers influencing the gas industry, including pricing mechanisms, market structures, investment strategies, and regulatory frameworks. The course also examines the impact of global energy trends, supply-demand dynamics, and emerging technologies on the gas market.

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Target Audience

- ✓ Energy Economist
- ✓ Oil and Gas Analyst
- ✓ Supply Chain Manager (Gas Industry)
- ✓ Petroleum Engineer
- ✓ Gas Trading Specialist
- ✓ Energy Policy Analyst
- ✓ Operations Manager (Gas Sector)
- ✓ Investment Analyst (Energy Sector)
- ✓ Regulatory Affairs Specialist (Gas Industry)
- ✓ Business Development Manager (Oil & Gas)

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Learning Objectives

- ✓ **Understand the Gas Value Chain** – Gain insights into the different stages of the natural gas supply chain and their economic significance.
- ✓ **Analyze Market Dynamics and Pricing Mechanisms** – Learn how gas pricing is determined in various markets and the factors influencing price fluctuations.
- ✓ **Evaluate Investment and Cost Structures** – Assess the economics of gas exploration, production, transportation, and infrastructure development.
- ✓ **Explore Regulatory and Policy Frameworks** – Understand the impact of government policies, contracts, and international regulations on the gas sector.
- ✓ **Assess Supply and Demand Factors** – Examine how geopolitical, environmental, and technological factors shape gas supply and consumption patterns.
- ✓ **Understand LNG and Pipeline Economics** – Compare the economic considerations of liquefied natural gas (LNG) versus pipeline transportation and their global market implications.
- ✓ **Examine the Role of Gas in the Energy Transition** – Analyze how natural gas fits into the global shift toward cleaner energy sources and decarbonization efforts.

✓ **Develop Strategic Decision-Making Skills** - Learn how businesses and policymakers make informed economic decisions in the gas industry.

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Course Outline

✓ Day 01

Introduction to Natural Gas Technical Fundamentals

- ✓ Definition of Hydrocarbon Gases and Their Chemical Composition
- ✓ Types of Natural Gas Reservoirs
- ✓ Basic Gas Geology and Origins of Hydrocarbon Deposits
- ✓ Trapping Mechanisms

Gas Value Chain Concept

- ✓ Gas Commercialization and Monetization Criteria
- ✓ Natural Gas Players: Government, NOC, IOC,
- ✓ Gas Project Life Cycle:
- ✓ Acquisition, Gas leasing process, and terms
- ✓ Exploration and Appraisal
- ✓ Development
- ✓ Gas Production and Processing

LNG Value Chain

- ✓ Global Reserves, Supply, and Demand

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Course Outline

✓ Day 02

Gas Field Economics and Evaluation

- ✓ Familiarization with Economic Terms
- ✓ Cost Classification and Cost Behavior
- ✓ Technical costs (CAPEX- OPEX- Abandonment)
- ✓ Fiscal costs
- ✓ Depreciation
- ✓ Profit Calculation
- ✓ Before and After-Tax Net Cashflow
- ✓ Loss Carryforward with and without revenue limit

Profitability Indicators

- ✓ Maximum capital outlay
- ✓ Payback period
- ✓ Economic Limit and Economic Life
- ✓ Economic Reserves

Net present value (NPV)

- ✓ Internal Rate of Return (IRR)
- ✓ Profit to investment ratio and capital productivity index

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Course Outline

✓ Day 03

Legal Framework of the Natural Gas Industry

- ✓ Types of Gas Sales and Purchase Agreements Contracts
- ✓ Depletion Type Contracts
- ✓ Supply Contracts

Commercial and Financial Structure of LNG Plant

- ✓ Integrated structure
- ✓ Merchant Structure
- ✓ Prayer Break
- ✓ Tolling Structure

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Course Outline

✓ Day 04

Long-Term Sales and Purchase Agreements

- ✓ Contractual quantities Negotiations
- ✓ Total Contract Quantity
- ✓ Annual Contract Quantity

Excess Gas

- ✓ Carry Forward Gas
- ✓ Shortfall Gas
- ✓ Take-or-Pay.
- ✓ Make Up Gas
- ✓ Q&A

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Course Outline

✓ Day 05

LNG & Gas Pricing Mechanisms

- ✓ LNG & Gas Pricing Mechanisms
- ✓ Indexed Gas Pricing Mechanisms
- ✓ Gas on Gas Pricing
- ✓ Regulated Pricing Mechanisms

Cap Price

- ✓ Floor Price
- ✓ Collar Prices
- ✓ Gas and LNG Markets
- ✓ Q&A

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 29, 2026	July 3, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Aug. 24, 2026	Aug. 28, 2026	5 days	4950.00 \$	England , London
Oct. 12, 2026	Oct. 16, 2026	5 days	4250.00 \$	UAE , Dubai
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Riyadh

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