

Petrochemicals: An In-Depth Introduction

Time zone: 2PM London / 10AM New York 2-5 November 2021

Times shown is in London

MODULE 1

Understanding petrochemicals: Feedstock dynamics and industry fundamentals

2:00 – 3:00 Understanding petrochemicals: industry development, basic production processes and building blocks

- How the industry has developed over the years
- Overview of the petrochemicals value chain: terminology explained
- Paraffins (alkanes), olefins (alkenes) and aromatics introduced
- Steam cracking to make the building blocks
- The impact of coronavirus: How it could reshape the industry
- Recycling: Introducing basic concepts and terminology

3:00 – 4:15 Examining oil and its relationship with petrochemicals

- Overview of the oil refining industry
- Crude oil quality measurements
- Crude distillation, FCC and catalytic reforming processes
- Where petrochemicals are produced in refineries
- Crude oil pricing, and its influence on petrochemicals
- Coronavirus: Short -and long-term scenarios for oil markets

4:15 - 4:30 Break

4:30 – 5:20 An introduction to natural gas, methanol and ammonia

- Types of natural gas: NGLs, LPGs and condensates
- Natural gas distribution and LNG
- Growth of shale gas and the fracking process
- Ethane cost advantage
- The impact of shale gas on US competitiveness
- Emerging trade in ethane
- Production, consumption and reserves
- Methanol and ammonia from natural gas
- Olefins and growing fuel uses from methanol

5:20 – 5:30 Summary and conclusion



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MODULE 2

4.50 - 5.00

Petrochemical building blocks and their major applications

2:00 – 3:00	 Olefins: Ethylene, propylene and butadiene Ethylene and derivatives: major sources, value chains and enduses The three polyethylenes, ethylene oxide/glycol and the vinyls chain Propylene – the versatile polypropylene and other derivatives Sources of propylene and on-purpose processes Butadiene: synthetic rubbers and other C4 derivatives Market dynamics: Demand and supply in the Coronavirus New Normal
3:00 - 3:20	Value chain exercise: Olefins
3.20 - 3.30	Break
3.30 – 4.30	 Aromatics: Benzene, toluene and xylenes Primary and secondary sources of aromatics Benzene and derivatives: value chains and end-uses Polymers made from styrene Tensions in the phenol-acetone chains Paraxylene to polyester Phthalates from orthoxylene Market dynamics: Demand and supply in the Coronavirus New Normal
4.30 – 4.50	Value chain exercise: Aromatics

Summary and conclusion



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MODULE 3

Petrochemical market trends and understanding cost drivers

2.00 – 3.20	Petrochemicals – a changed world
	 Petrochemicals are a global business: who are the leaders; what are their roles?
	 Key business drivers: Coronavirus, feedstock, markets, logistics and more
	 Global and regional chemicals output; domination of China
	The key industries for petrochemicals
	 Strategic moves and creating winning partnerships
	 Trade flows and shifting regional influences
	 Industry challenges and opportunities: social pressure and tightening controls, key trends and growth prospects

3.20 – 4.00 Break

4.00 – 4.30 Understanding petrochemicals pricing and cost drivers

- How markets function and prices are set
- Types of prices: Spot and contract pricing
- Pricing jargon clarified
- Main price drivers cost, supply, demand and sentiment
- ICIS price assessment explained
- Price reporting challenges; manipulation and illiquid markets

4.30 – 5.00 Application: Knowledge survey & interactive discussion

5.00 – 5.15 Summary and conclusion



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MODULE 4

Future trends: Looking into factors that are shaping the future of the petrochemicals industry

2.00 – 3.15	 COVID-19 in focus: Implications on petrochemical markets The global market condition: Where it stands today
	A bipolar world: How the US and China split could be accelerated post-virus, leading to two economic and geopolitical trading zones and it would mean for petrochemicals trade flows and investments

- 3.15 3.30 Break
- 3.30 4.15 The rise of sustainability commitments and how it could change the future direction of petrochemicals
- 4.15 4.30 Summary and conclusion