

12 - 15 October 2020 // 8.00AM EST // 1.00PM BST

MODULE 1 (3 hours)

Understanding petrochemicals: Feedstock dynamics and industry fundamentals

8.00 - 9.00Understanding 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

9.00 - 9.45Examining 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

9.45 - 10.00**Break**

10.00 - 10.50An 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

10.50 - 11.00**Summary and conclusion**



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MODULE 2 (3 hours)

Petrochemical building blocks and their major applications

8.00 – 9.00	 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
9.00 - 9.20	Value chain exercise: Olefins
9.20 - 9.30	Break
9.30 – 10.30	 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
10.30 – 10.50	Value chain exercise: Aromatics
10:50 – 11.00	Summary and conclusion



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MODULE 3 (2 hours and 45 minutes)

10.30 - 10.45

Petrochemical market trends and understanding cost drivers

8.00 - 9.20	 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
9.20 - 9.30	Break
9.30 – 10.00	 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
10.00 – 10.30	Application: Knowledge survey & interactive discussion

Summary and conclusion



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MODULE 4 (2 hours and 30 minutes)

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

8.00 – 9.15	 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
9.15 – 9.30	Break
9.30 – 10.15	The rise of sustainability commitments and how it could change the future direction of petrochemicals
10.15 – 10.30	Summary and conclusion