

23 – 26 February 2021 Start time: 1PM GMT

MODULE #1: 23 February

Understanding petrochemicals: Feedstock dynamics and industry fundamentals

Time zone: GMT

13:00 - 14:00

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

14:00 - 14:45

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

14:45 – 15:00 Break

15:00 - 15:50

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

15:50 - 16:00

Summary and conclusion



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MODULE #2: 24 February

Petrochemical building blocks and their major applications

Time zone: GMT

13:00 – 14:00 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

14:00 – 14:20 Value chain exercise: Olefins

14.20 – 14.30 Break

14.30 – 15.30 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

15.30 – 15.50 Value chain exercise: Aromatics

15:50 – 16.00 Summary and conclusion



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MODULE #3: 25 February

Petrochemical market trends and understanding cost drivers

Time zone: GMT

13.00 – 14.20 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

14.20 - 14.30 Break

14.30 – 15.00 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

15.00 – 15.30 Application: Knowledge survey & interactive discussion

15.30 – 15.45 Summary and conclusion



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MODULE #4 : 26 February

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

industry

Time zone: GMT

12.00 14.15	COVID 10 in facus: Implications on netrophomical markets
13.00 - 14.15	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
- 14.15 14.30 Break
- 14.30 15.15 The rise of sustainability commitments and how it could change the future direction of petrochemicals
- 15.15 15.30 Summary and conclusion