

TRAINING COURSE

Petrochemical Industry Fundamentals

This course addresses industry fundamentals, including chemical structures and properties, process technologies, key producers, end-use applications, market sizes, trade patterns and sustainability issues across the key petrochemical value chains.



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1. Detailed look at the foundations of the petrochemical industry

- Feedstocks, including natural gas, NGLs, petroleum, coal, and biobased.
- Industry's 7 Basic Building Blocks: Syngas, Ethylene, Propylene, C4 Olefins, Benzene, Toluene, and Xylenes.
- Exploration of each building block's value chain.

2. Key downstream polymers

- Polyethylenes – LDPE, HDPE, LLDPE
- Polypropylene – homopolymer, random copolymer and impact copolymer
- Vinyls chain – EDC, VCM, PVC, C/A
- Styrenics – Styrene monomer, GPPS, HIPS, EPS
- Polyester chain – PX, PTA, PET

3. Placing the current industry structure into historical perspective

4. Interactions

- Unravels the complex synergies underlying the petrochemical industry
–technology, markets, and economics

5. Key market and profitability drivers

6. Where are future growth opportunities?