

An Introduction to Polyolefins
Industry fundamentals and market dynamics

Module 1 (3 hours)

10 minutes	Welcome and Introduction
45 minutes	Understanding Petrochemicals and Polymers <ul style="list-style-type: none">• What are petrochemicals and where do they come from?• Steam cracking: a process in making petrochemical building blocks• Polymer overview: the value chains and key feedstocks
15 minutes	Break
1 hour	Examining oil and gas and its relationship with polyolefins <ul style="list-style-type: none">• Where petrochemicals are produced in refineries• Production, consumption and reserves• Types of natural gas and distribution: NGL, LPG, LNG• The US shale gas revolution: What it means for petchems• Coal-to-chemicals value chain: The rise of China
50 minutes	Pricing and Markets <ul style="list-style-type: none">• Cost analysis: What are the factors contributing to overall costs of production in a steam cracker-to-polyolefins complex?• Understanding cost curves and margins• Competitiveness across different regions: how margins vary between the US, Europe and Asia

Module 2 (2 hours & 30 minutes)

45 minutes	Polyolefins: different grades and end-use markets <ul style="list-style-type: none">• Different types of PE and PP and end-use applications• PE and PP production technologies• A very brief look downstream: different types of plastic processing
15 minutes	Quiz: understanding the value chains
15 minutes	Break
1 hour & 15 minutes	Global polyolefins: headline challenges and opportunities <ul style="list-style-type: none">• Long-term shifts in demand patterns resulting from the pandemic.• Scenarios for global PE and PP consumption in 2021-2025• Impact on the developing world• Production and logistics challenges• A deep dive into China, the world's most important market• A personal view on sustainability

Module 3 (2 hours)

45 minutes

Polyolefins Markets Part II: Spotlight on the European region

- Europe's competitive position
- A profile of the major producers and their capacities
- Demand prospects after the pandemic
- Europe's big sustainability push in the global context

15 minutes

Break

45 minutes

Polyolefins Markets Part III: Spotlight on the Asian region

- China's dominant role in demand
- Rising self-sufficiency and the regional and global implications
- Southeast Asia and India
- And to conclude with: the global megatrends and their impact on all regions

15 minutes

Summary and conclusion