



OIL AND GAS | OG-070

Petrochemical Processes and Industry Overview

Contact

+31 85 7444446
info@aractech.com
https://aractech.com

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Petrochemicals turn oil and gas feedstocks into plastics, fibres, solvents and countless everyday products. The industry is capital-intensive, globally competitive and increasingly shaped by sustainability pressures.

This Aractech course explains petrochemical feedstocks, steam cracking, aromatics production, polymers, major intermediates, plant operations, product markets, economics and the shift towards circular and low-carbon petrochemicals. Participants gain an integrated technical and business overview of the industry.

Course Methodology

- Process presentations
- Value chain exercises
- Market case studies
- Group discussions
- Daily recap

Course Objectives

- Describe petrochemical feedstocks and value chains
- Explain steam cracking and aromatics processes
- Understand polymer production
- Understand petrochemical markets and economics
- Recognise safety and environmental challenges
- Assess circular and low-carbon trends

Target Audience

- Petrochemical engineers and operators
- Commercial and marketing staff

Course content

- Planning and strategy professionals
- Refinery staff moving into petrochemicals

Course outline

Detailed course outline

Day-by-day outline for Petrochemical Processes and Industry Overview.

Day 1 - Petrochemical Industry

- 09:00-09:39 | Industry overview
- 09:39-10:18 | Feedstocks
- 10:18-10:57 | Value chains
- 10:57-11:00 | Global markets
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Global markets (continued)
- 12:05-12:43 | Integration with refining
- 12:43-14:00 | Exercise: Value chain map

Day 2 - Olefins

- 09:00-09:39 | Steam cracking
- 09:39-10:18 | Ethylene and propylene
- 10:18-10:57 | By-products
- 10:57-11:00 | Plant operations
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Plant operations (continued)
- 12:05-12:43 | Energy efficiency
- 12:43-14:00 | Case study: Cracker optimisation

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Day 3 - Aromatics and Intermediates

- 09:00-09:39 | Benzene, toluene and xylenes
- 09:39-10:18 | Methanol and derivatives
- 10:18-10:57 | Major intermediates
- 10:57-11:00 | Process technologies
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Process technologies (continued)
- 12:05-12:43 | Product specifications
- 12:43-14:00 | Exercise: Process comparison

Day 4 - Polymers

- 09:00-09:39 | Polyethylene and polypropylene
- 09:39-10:18 | PVC and other polymers
- 10:18-10:57 | Polymerisation processes
- 10:57-11:00 | Product grades
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Product grades (continued)
- 12:05-12:43 | Applications
- 12:43-14:00 | Workshop: Polymer market review

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Day 5 - Economics and Sustainability

- 09:00-09:45 | Petrochemical economics
- 09:45-10:30 | Margins and cycles
- 10:30-11:00 | Plastics recycling
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Plastics recycling (continued)
- 11:45-12:30 | Low-carbon pathways
- 12:30-13:15 | Strategy
- 13:15-14:00 | Capstone: Petrochemical investment review

Seminar dates

Available seminar dates

Live dates and pricing for Petrochemical Processes and Industry Overview generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Munich	Classroom	€3,225
7 - 11 December 2026	Amsterdam	Classroom	€2,830
11 - 15 January 2027	Cape Town	Classroom	€1,625
8 - 12 February 2027	Frankfurt	Classroom	€1,875
8 - 12 March 2027	Barcelona	Classroom	€2,815
12 - 16 April 2027	Barcelona	Classroom	€2,815
10 - 14 May 2027	Rome	Classroom	€3,460
14 - 18 June 2027	Munich	Classroom	€3,225
12 - 16 July 2027	Amsterdam	Classroom	€2,830
9 - 13 August 2027	Paris	Classroom	€3,825

Seminar dates

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Date	Location	Format	Fee
13 - 17 September 2027	Frankfurt	Classroom	€1,875
11 - 15 October 2027	Barcelona	Classroom	€2,815
8 - 12 November 2027	Barcelona	Classroom	€2,815
13 - 17 December 2027	Rome	Classroom	€3,460
16 - 20 November 2026	Online / Live	Online / Live	€1,815
7 - 11 December 2026	Online / Live	Online / Live	€1,815
11 - 15 January 2027	Online / Live	Online / Live	€1,815
8 - 12 February 2027	Online / Live	Online / Live	€1,815
8 - 12 March 2027	Online / Live	Online / Live	€1,815
12 - 16 April 2027	Online / Live	Online / Live	€1,815

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Date	Location	Format	Fee
10 - 14 May 2027	Online / Live	Online / Live	€1,815
14 - 18 June 2027	Online / Live	Online / Live	€1,815
12 - 16 July 2027	Online / Live	Online / Live	€1,815
9 - 13 August 2027	Online / Live	Online / Live	€1,815
13 - 17 September 2027	Online / Live	Online / Live	€1,815
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