Training - Economic Framework of Petrochemicals

CEP-EN-P | Face-to-face only | 3 days

This course allows the participants to deepen their knowledge on the petrochemicals sectors and to assess the main economic challenges in these sectors

Level
Knowledge

Public
All professionals wishing to improve their understanding of the functioning of petrochemicals industry

Objectives
Attendees will be able to implement the following skills:

- Understand the economic framework and the key challenges of petrochemicals industry
- Identify key interfaces between petrochemicals and other hydrocarbon sectors such as upstream (Oil & Gas) and downstream value chain (refining/petrochemicals)

Pedagogical & technical resources
Case studies and exercises in groups

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites
No prerequisites are necessary to follow this course

Responsable
IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

ENVIRONMENT FRAMEWORK & UPSTREAM PETROCHEMICALS — 1 day

Industry fundamentals: from coal/oil/gas to petrochemicals and global/regional outlook.
Petrochemicals: key building blocks processes:

- Olefins (C2, C3, C4).
- Aromatics (benzene, paraxylene).
- and associated traditional technologies (steamcracker, FCC, reforming...).

Steamcracker economics:

- World/regional capacities.
- Typical yields and cost of production (methodology and comparison).

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- Petrochemicals: opportunities (shale gas) and challenges (climate change, capex, shale gas...).

Case study: optimization of steamcracker feedstock, steam cracker margin/income.

OLEFINS (C2=/C3=) 0.75 day

Review of processes (cracker and FCC) and new technology (MTO, CTO, PDH...).
Key players and market perspectives (new investments).
Sector challenges (production increase, production costs...).

C4 & AROMATICS 0.25 day

C4 value chain (butadiene and butylenes), brief technical review of technologies, key actors and markets.
C5 value chain (isoprene, DCPD, PIPS).

INVESTMENT PROFITABILITY STUDIES 1 day

Value creation and capital cost, cash flows, discounting principle and inflation impact.
Standard global profitability analysis: cash flow schedule, economic criteria (net present value, internal rate of return, etc.).
Introduction to risk analysis.
Case study: steamcracker profitability.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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