TECHNICAL EDUCATION ACADEMY

School of Engineering

COURSE PROGRAMME

000098

RPCH005 - Gas-To-Liquids Technologies

This course provides a technical and economic information regarding GTL processes.



Learn from the Best in the Business!

Course overview

Intermediate level

Why take this course

This course provides a technical and economic information regarding GTL processes.

Who it is for and how it helps

Managers and engineers interested in the current developments of GTL technologies.

What you will learn

- Analyze the essence of natural gas markets
- Grasp the technology and economics of various GTL conversion units
- Have the latest update on current projects

Curriculum

Modules 01–03

01 Natural gas markets

- Production and consumption of natural gas in the world.
- Main uses of natural gas.
- Existing and potential routes for gas: pipelines, LNG, electrical power.
- Natural gas reserves, associated gas: potential markets for GTL

02 GTL technologies

- Overview of full GTL production chain: synthesis gas, Fisher-Tropsch reaction, finishing.
- Products quality from conventional versus GTL technologies.
- Different processes for synthesis gas manufacturing and their reactions, catalysts, process schemes, past uses (methanol, etc.):
- Steam reforming.
- Partial oxidation (POX).
- Auto-thermal reforming.
- Projects in the frame of GTL production.
- Fischer-Tropsch manufacturing processes: reactions, catalysts and process schemes.
- Existing units for Fischer-Tropsch and projects in the frame of GTL production.
- Finishing processes for products upgrading, oligomerization and hydrocracking downstream Fischer-Tropsch units: reactions, catalysts and process schemes.
- Existing units and projects in the frame of GTL production.

03 GTL projects & issues

- Investments, operating costs: CAPEX, OPEX, costs for natural gas.
- Marketing advantages, environmental incentives.
- Economic advantages/disadvantages of GTL versus LNG.
- Strategies of the different actors (producing countries of natural gas, process licensors, Oil & Gas companies, engineering companies)

Participation and contacts

Joining the programme

Contact the Academy and quote course code 000098 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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