Training - Gas-To-Liquid Technologies

GTLE-EN-P | Face-to-face only | 2 days

This course provides a technical and economic information regarding GTL processes

Level

Awareness

Public

Managers and engineers interested in the current developments of GTL technologies

Objectives

Attendees will be able to implement the following skills:

- List the main technologies involved in GTL production

Pedagogical & technical resources

- This session is adaptable to distance classroom
- Interactive course

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

NATURAL GAS MARKETS — 0.5 day

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.

GTL TECHNOLOGIES — 1.25 days

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.

Fischer-Tropsch manufacturing processes: reactions, catalysts and process schemes.
Finishing processes for products upgrading, oligomerization and hydrocracking downstream Fischer-Tropsch units: reactions, catalysts and process schemes.

GTL PROJECTS & ISSUES — 0.25 day

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

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