

This course can be adapted to virtual classroom mode

## Fundamentals of Production

2 days  
Overview

CHAINEP-EN-A

### LEVEL

Awareness

### PURPOSE

This course provides an introduction to Oil & Gas production, along with a glossary of terms, covering fundamentals of technology, chain structure from well to export terminal, skills and job positions involved in operating production facilities.

### LEARNING OBJECTIVES

Upon completion of the course, participants will be able to:

- understand the different phases of the Oil & Gas production process,
- grasp the specific issues of offshore Oil & Gas production,
- understand organizations, skills and job positions involved in operating production facilities,
- acquire a complete view of the Oil & Gas production chain, stretching over technical, business and economic issues.

### WAYS AND MEANS

Course delivered by industry specialists.  
Numerous illustrations and case studies.

### LEARNING ASSESSMENT

Continuous assessments all-along the program.

### PREREQUISITES

No prerequisites for this course.

## Agenda

### THE OIL & GAS CHAIN: PRODUCTION POSITION

0.5 d

Positioning of the production in the value E&P chain.  
World primary production.  
Issues and technical constraints:  
Conventional resources.  
Unconventional resources.  
Job descriptions and skills for production activities.

### ONSHORE & OFFSHORE PRODUCTION

0.5 d

Technical specifications, operating modes.  
Operating patterns and mapping fields.  
Technical architectures.  
Organization (remote site, extreme conditions, manning, shift...).

Case studies: FPSO , wet gas field (onshore), oil fields operated with reinjection, remote control room, early production facilities...

## FROM WELL TO EXPORT POINT

1 d

From reservoir to wellhead: hydrocarbons and well effluent behavior.

Well techniques, production techniques and well servicing.

Surface facilities and treatment operations.

Metering and expedition.

Health Safety and Environment, sustainability.

Budgets (CAPEX, OPEX) during the life cycle of a production field.