

# ADVANCED OIL & GAS FIELD PROCESSING

## OBJECTIVES

To provide a **deeper understanding** of Oil & Gas field processing techniques.

Upon completion of the course, participants master the main thermodynamic transformations involved in Oil & Gas Field processing and have a deepened knowledge of the Oil, Water and Gas field treatments.

## COURSE CONTENT

Although the course consists of three separated modules, it is highly recommended to attend **Module 1, prior to Module 2 and/or Module 3**

Refer to the next pages for detailed course content

### Module 1: THERMODYNAMICS APPLIED TO WELL EFFLUENT PROCESSING (E-504)

5 days

Well effluent  
Ideal and real fluid behavior  
Gas compression and expansion  
Liquid-Vapor equilibrium of pure substances  
Liquid-Vapor equilibrium of mixtures - Mixture separation

### Module 2: OIL AND WATER TREATMENT (E-505)

5 days

Need for field processing of oil - Quality requirements  
Crude oil treatment  
Injection water treatment  
Production water treatment

### Module 3: GAS PROCESSING AND CONDITIONING (E-506)

5 days

Need for field processing of gas - Quality requirements  
Gas processing  
Liquified Natural Gas (LNG)

**E-503**

#### ▲ Who should attend?

Junior and more experienced engineers involved in the **operation and/or design** of the Oil & Gas field processing facilities.

#### ▲ Duration

**15 days**

#### ▲ Sessions in English

**February 15 - March 05, 2010**  
Rueil-Malmaison (Paris)

**Sept. 20 - October 08, 2010**  
Rueil-Malmaison (Paris)

**French sessions: F-503**

#### ▲ Registration

Fees: € 5,800

Contact:

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#### ▲ Course Coordinator

**Dawn BANNER**

Ref. **PROD / ADVGB**

At request, this course may be organized for a single company, and tailored to its specific requirements.