ADVANCED OIL & GAS FIELD PROCESSING

OBJECTIVES

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

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

COURSE CONTENT

Although the course consists of three separated modules, it is highly recommended to follow **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
- Fundamentals of friction losses through pipes and fittings

Module 2: OIL AND WATER TREATMENT (E-505) — **5 days**

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

Module 3: GAS PROCESSING AND CONDITIONING (E-506) — **5 days**

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

On request, this course may be organized in French for a single company (inhouse session).

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

▲ Dates & Location

February 16 - March 06, 2009
Rueil-Malmaison (Paris)

Sept. 21 - October 09, 2009
Rueil-Malmaison (Paris)

October 05-23, 2009
Rueil-Malmaison (Paris)

▲ Registration

Fees: **€ 5,610**

Contact:
exp.rueil@ifptraining.com
Fax: (+33) 1 47 52 74 27

▲ Course Coordinator

Mohamed SKHIRI

Ref. **PROD / ADV**

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