

# PE4 INTRODUCTION TO PETROLEUM EXPLORATION AND PRODUCTION BUSINESS

Dr. Omar B. Abu-elbashar

Fees: 1950 €

DUBAI: 22 – 24 Oct. 2018 & 18- 20 Feb. 2019

## COURSE OVERVIEW

This course is tailored to acquaint the participants with the full scope and basic knowledge related to petroleum exploration and production business. It covers the subject from hydrocarbon origin and migration, geological surveys, drilling engineering, production engineering, hydrocarbon processing, hydrocarbon transportation, petroleum economics, and petroleum exploration agreements.

The course is supported by **video films** showing the different drilling and production activities

## WHO SHOULD ATTEND

This course is designed for non-technical management and administrative staff, economists, accountants, in-house lawyers, geologists, geophysicists, young petroleum engineers, and other non-technical staff.

## COURSE CONTENT

1. Introduction: Exploration and Production Walkthrough.
  - ⇒ Running a casing and Cementing.
2. Licensing Rounds and exploration agreements.
  - ⇒ The idea of a Licensing Round.
  - ⇒ The legal and Fiscal terms.
  - ⇒ Commitments in Exploration agreements.
3. Geological aspects in Petroleum Exploration:
  - ⇒ Origin of petroleum.
  - ⇒ Migration of Petroleum.
  - ⇒ Depositional basins.
  - ⇒ Petroleum Traps.
  - ⇒ Development geology.
4. Drilling Engineering.
  - ⇒ Drilling a well.
5. Well testing.
6. Well completion and Production Technology.
7. Field development planning.
8. Reserve Evaluation.
9. Surface Production Facilities.
  - ⇒ Oil Processing.
  - ⇒ Natural Gas and Condensate processing
10. Hydrocarbon transportation.
11. Petroleum Economics.
12. Health Safety and Environmental Environmental protection in the Oil Industry.

## THE LECTURERS



**Dr. O. B. Abu-elbasha**

### **BRIEF RESUME OF DR. ABU-ELBASHAR**

Dr. Omar Badawi Abu-elbasha has 34 years of Petroleum Industry experience, and is the Managing Director of PETRO-TEC. He is specialist in Compositional and Black-oil reservoir simulation; field development planning, and Reservoir Management.

He obtained his Ph.D. in Res. Eng. from the Petroleum Eng. Dept. Of the Imperial College, London University, in 1990, and conducted a post-doctoral research in reservoir modelling in 1991.

As a Free-lance Consultant he is now working in **Res. Management of Burgan field, Kuwait**. Prior to KOC he worked in Res. Management of **Fahood field Shell/PDO Oman**, Team leader of Simulation Studies in PETRO-ENERGY (CNPC), **President of PetroSA Local co. In Sudan** (Salima Oil), Consultant reservoir simulation Eng, GNPOC, 2004-2007, Simulation Consultant PDO Oman 2001-2003, Simulation **Consultant Soekor of South Africa**.

In 1996-1998 he joined **Shell Nigeria** as a reservoir simulation consultant working on water injection and gas injection studies. He also worked on PVT modelling, Quality Control of Simulation Input data, and trained the staff in guided FDP's.

**He authored many papers** in Reservoir Simulation, Modelling, & quantification of the effect of different heterogeneities on hydrocarbon recovery.