

Integrated Reservoir Management

Admission

- > An Application Form, including a Statement of Financial Support, must be completed and returned to the IRM Coordinator, IFP Training.
- > The final decision on admission is taken the limits of the authorized quota.

Certificate

- > Upon satisfactory completion of the program, graduates will receive a "Certificate in Integrated Reservoir Management" approved by both institutions.

Tuition fees

- > Tuition fees: upon request.
- > Fees include lectures, documentation and seminar summaries but exclude accommodation or meals.
- > Assistance for accommodation and administrative formalities will be provided upon request.

About the partners

> IFP Training

IFP Training is a subsidiary of the French Petroleum Institute (IFP) and since 1975, it has been providing skill development & training for all the professionals in the oil, gas, petrochemical, chemical and automotive industries, from top managers to site operators. With 80 full-time instructors and a network of 500 consultants, IFP Training offers services in three main areas, in France but also overseas:

- Training courses for professionals, from a few-day short courses to several-month integrated courses with both lectures and hands-on activities. Every year IFP Training delivers over 1,200 courses for about 14,000 participants from some 80 countries.
- Master Degree or Graduate Diploma programs outside France in partnership with the IFP School.
- Training engineering and consulting for Ministries of Energy, and international/national oil & gas companies, or international institutions, thanks to a multidisciplinary team combining technical experts with professionals in education and instructional design.

> Imperial College London

The Centre for Petroleum Studies is a focus for research, postgraduate teaching and professional development within the framework of petroleum sciences and engineering at Imperial College London. It is part of the Department of Earth Science and Engineering.

Its main objectives are to facilitate multi-disciplinary research between geologists, geophysicists, petroleum engineers and members of other key disciplines.

The aim of such collaboration is to advance the state of the art in exploration, appraisal/development and reservoir management, and to plan and implement related postgraduate teaching programs which reflect current best practices within the petroleum industry.

The Centre draws one of the largest concentrations of petroleum scientists and engineers in a UK academic institution, with almost 50 staff members providing research expertise across the complete Exploration-Production spectrum.

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An international collaborative training program.

- > For any additional information, please contact us:

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**Imperial College
London**

IFP Training

The Vital Common Ground in Exploration & Production

The technical management of strategic natural resources such as Oil & Gas reservoirs is a challenging responsibility that confronts **operating companies, service companies and government authorities.**

This is achieved by the establishment of effective **multidisciplinary teams** at all the stages during the life of a field, extending from exploration to the later stages of appraisal, development and **production operations.**

The Integrated Reservoir Management program has been primarily designed for those professionals whose responsibilities will include any of these essential phases of **Reservoir Management** during their careers.



> Objectives

- To develop an understanding of the fundamentals of Reservoir Engineering, from geology to hydrocarbon recovery.

- To promote reservoir engineering techniques and best practices related to the development of Oil & Gas fields, in order to optimize company resources, technically and economically, thus **creating additional value.**
- To provide experts in hydrocarbons resources management the opportunity to practice other disciplines within an international team and to develop professionals capable of leading multidisciplinary teams in reservoir development, operations and planning.
- To provide an exposure to a range of reservoir conditions through **various case studies.**
- To provide an opportunity, via **field trips**, to visit outcrops associated with some of the reservoirs being studied ■

> Who Should Attend?

This course will be of significant interest for upstream professionals, such as petroleum engineers, geologists & geoscientists, together with drilling, development and production engineers, who wish to broaden their technical experience. Considering the increasing importance of Integrated reservoir management, the programme will provide engineers who may not be expert in reservoir management with a unique opportunity to appreciate the key issues that determine the outcome of a successful development.

This course has a **strong practical bias** and is therefore ideally suited for those who already have industrial experience, **high potential and likely to be future managers of various E&P activities.** Applicants must have a confirmed scientific background, together with a degree in engineering or science ■

> Course Schedule

9 weeks:

- > 7 weeks at IFP Training in Rueil-Malmaison, including a field trip to Montpellier, 2 weeks at Imperial College London, with a field trip to the Wessex Basin.
- > This course is structured around **field case studies** and background lectures in order to familiarize engineers with **real-life problems** associated with the optimal appraisal, development and operations of petroleum resources, and to provide a basis for management decisions ■

Integrated Reservoir Management

> Imperial College London 2 weeks

- **Extended Field Model Study**
A group-based, computer-aided exercise focusing on the development and the monitoring of UKCS hydrocarbon accumulation.
 - > Exploration, Appraisal, Economic Evaluation
 - > Preliminary Development Plan
 - > Field history match, reservoir management through plateau period
 - > Reservoir prediction, field management through decline period
 - > Abandonment
 - > Overall decision making in economics and strategy

> IFP Training 7 weeks

• Fundamentals of Reservoir Engineering and Field Development:

- > Reservoir Geology
- > Geophysics
- > Well logging
- > Petrophysics
- > Fluid properties
- > Well testing
- > Production mechanisms
- > Reservoir modeling
- > Field development methodology
- > Drilling and completion
- > Project economics

• Field cases

- > Tertiary recovery in a mature oil field
- > Well performance optimization : inflow, outflow, formation damage remedial
- > Reservoir management specificities for fractured carbonate reservoirs
- > Project management approach of a Far East gas compression project with contracting strategies, schedule and key dates, cost estimate
- > Development and monitoring of a gas field
- > Complete gas condensate and oil field evaluation, development and monitoring in the North Sea environment

