

### **Economic Analysis and Evaluation of Investment Projects in Oil and Gas Exploration and Production**

#### **General objectives:**

This course aims to provide participants with the necessary knowledge of the Oil Exploration and Production investment project concepts, presenting an integrated view of the different phases of project analysis and exploration.

#### **Specific objectives:**

At the end of this course students will be able to:

- Understand the physical principles and operations and equipment required for oil and gas extraction;
- Apply the methodology of Project Management tools;
- Identify technically and economically the different aspects of the various segments that compose the exploration of oil;
- Perform a correct approach to the Project concept namely Project life cycle, organizational forms, cost estimation.

#### **Target Audience:**

This course is intended for all professionals involved and responsible for managing investment projects for the Oil & Gas industry.

#### **Hours:**

18 Hours

#### **Program Contents:**

##### **Module I - Economic Evaluation of E&P Projects**

- Introduction;
- Basic concepts;
- Economic indicators.

##### **Module II - Economic Evaluation on Oil and Gas Exploration**

- Hydrocarbon reserves;

- Concepts and Criteria;
- Production process;

### **Module III - Environmental Restrictions**

- Current legislation;
- Environmental risks and impacts arising from operations;
- Occupational Safety and Health Systems.

### **Module IV - Economic Criteria for Selection and Classification of Production Projects**

- Cost of capital;
- Composition of oil and gas prices;
- Investments in production facilities;
- Production operating costs.

### **Module V - Project Financing**

- Introduction;
- Main Feasibility Indicators;
- The cash flow of the project;
- Project risk;
- Economic analysis of the outsourcing of activities.

### **Module VI - Petroleum Engineering**

- Source;
- Well drilling;
- Refining: Processes, Products and Main Equipment;
- Quality of Oil Derivatives.

### **Module VII - Analyze the experiences and synthesize the difficulties encountered.**

### **Module VIII - Case Studies**