Training - Downstream Oil Value Chain Management

GCAV-EN-P

Face-to-face only

60 days

This training is part of a professional carrier development to managerial positions in dowstream business, requiring specific skills in refining economics, linear programming, oil trading, logistics and finance, and auditing downstream activities

IFP Training Certificate

Graduate Certificate

Level

Knowledge

Public

Executives from the downstream sector who require a global picture of all the technical, economic, financial, contractual & audits of downstream business activities

Objectives

Attendees will be able to implement the following skills:

- Explain the roles of the various refining units, their interdependence and the operating conditions of the main units
- Identify the economic issues and the main parameters influencing refinery profitability
- Design and use refinery management and optimization tools to increase productivity
- Identify the interactions between the petrochemical sector and other oil sectors
- Appreciate the various risks associated with trading petroleum products
- Analyzing the economic aspects of a logistics chain
- Analyze a company's accounting publications
- Analyze economic results and carry out sensitivity studies

Pedagogical & technical resources

- Case studies simulated on computers
- Analyze the main corporate financial statements issued by Oil & Gas companies
- Cost estimation of downstream projects

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

PART I: BACKGROUND AND FUNDAMENTALS OF THE OIL CHAIN (10 DAYS)

MODULE 1: INTRODUCTION TO EXPLORATION-PRODUCTION **5 days**

Reservoir engineering. Well intervention. Surface facilities.

MODULE 2.A: OVERVIEW OF OIL & GAS CHAIN **3 days**

International energy scene. Upstream economics. Oil trading. Downstream economics.

MODULE 2.B: CASE STUDIES **2 days**

Based on a set of up-to-date documents (reports, articles, contracts) related to refining business, participants work in sub-groups to prepare a presentation.

PART II: TECHNICAL AND ECONOMIC FRAMEWORK OF DOWNSTREAM ACTIVITIES (20 DAYS)

MODULE 3: FUNDAMENTALS OF REFINING & PETROCHEMICALS **5 days**

Refining processing. Petroleum product quality. Refining schemes.

MODULE 4: ECONOMIC FRAMEWORK OF DOWNSTREAM ACTIVIVES **4 days**

Global refining markets. Refining margins. Downstream economics.

MODULE 5: LINEAR PROGRAMMING **3 days**

Optimization. Excel Solver. Linear programming models.

MODULE 6: PETROCHEMICAL ECONOMICS **3 days**

Petrochemical process. Petrochemical markets & economics.

MODULE 7: OIL STORAGE FACILITIES **5 days**

Petroleum products. Atmospheric storage. Control & risk management.

PART III: DOWNSTREAM OIL TRADING & CONTRACTUAL FRAMEWORK (15 DAYS)

MODULE 8: OIL PRICES TRANSMISSION MECHANISMS **5 days**

Main factors influencing the price of crude oil and petroleum products. Macroeconomic factors on crude and product prices.

MODULE 9: TRADING OF CRUDE OIL & PETROLEUM PRODUCTS **5 days**

Differentiation of crude oil - Price setting. Finished oil products. Trading and price setting. Trading of oil products contracts.

MODULE 10: DOWNSTREAM LOGISTICS **5 days**

Technical aspects of logistics. Economic aspects of a logistics chain.

PART IV: ECONOMIC ANALYSIS OF DOWNSTREAM OIL PROJECTS (15 DAYS)

MODULE 11: DOWNSTREAM ACCOUNTING & FINANCIAL MANAGEMENT — 5 days

Accounting standards. Consolidated financial statements. Reporting (board). Financial analysis.

MODULE 12: DOWNSTREAM AUDITING — 5 days

Introduction to audit and financial reporting. Implementing a contractual auditing.

MODULE 13: PROFITABILITY ANALYSIS OF DOWNSTREAM PROJECTS — 5 days

Economic criteria. Economic costs analysis. Equity profitability analysis and project funding. Risk analysis of downstream projects.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com