



*Training Course:
Hydrocarbon Production Operations MBA*

*2 - 6 June 2024
Cairo (Egypt)
InterContinental Citystars Cairo*

Training Course: Hydrocarbon Production Operations MBA

Training Course code: EN6022 From: 2 - 6 June 2024 Venue: Cairo (Egypt) - InterContinental Citystars Cairo Training Course Fees: 3900 € Euro

Introduction

This program will provide the participants with an integrated view of the hydrocarbon production and related facilities during the life of the reservoir. It will present an overview/fundamental understanding of the wide range of oilfield production handling and treatment equipment. With this view and tools and knowledge on the properties and flow of the fluids provided in this training session, the participant will be able to understand the behavior of the fluids from the reservoir up to end-users. The training gives a strong emphasis on the calculation of reserves, fluids properties from a reservoir through gathering networks. This knowledge is necessary for the surface facility engineer to design or operate the equipment and facilities.

Course Objectives of Hydrocarbon Production Operations MBA

- Familiarize the participants with global oil & gas related statistics, such as reserves, production, consumption, and exports
- Familiarize the participants with both upstream, middle stream and downstream operations and related facilities
- Familiarize the participants with various methods and techniques used to explore, drill, produce, treat and transport oil, gas and their products
- Understand the oil & gas operations of various field facilities from the wellhead, flow lines, separators, tanks, pumps and compressors, pipelines, gas treatment and processing, refinery operations, etc
- Understand the basic concept with regards to evaluating oil & gas reserves, artificial lift and enhancing recovery
- Understand the challenge associated with this industry such as offshore operations, horizontal drilling and other safety concerns
- Get a general feel for petroleum economics and risk analysis

TRAINING METHODOLOGY

The program will include a number of exercises aimed at enhancing each participant's capability to conduct various petroleum engineering problems. A number of short films will be presented during the training session to enhance the participants' knowledge about petroleum field operations.

Additionally, the program assumes no or limited prior knowledge of the topics covered in this training session. New concepts and tools are introduced gradually to enable delegates to progress from the fundamental to the advanced concepts of oil & gas operation processes.

The delegates will gain improved knowledge about various aspects of the oil & gas production operations. These include the production of gas and oil and surface processing units and operations such as artificial Lift and pressure maintenance operations. Issues related to mid-stream and down-stream will be discussed as well, including recent developments.

Course Summary of Hydrocarbon Production Operations MBA

This program will provide engineering. It will explain the important concepts in a reservoir and well drilling and intervention, productivity optimization, various recovery mechanisms, as well as covering various operational issues. Core Competencies are:

- Gain an overall knowledge of various hydrocarbon production processes from the time a reservoir is discovered to end-users
- Understand the role of the petroleum/reservoir engineer in optimizing recovery
- Gain sufficient knowledge of various surface and sub-surface pieces of equipment and processing facilities used in a typical oil & gas field
- Gain sufficient knowledge about health, safety, and environmental issues
- Understand the role of petroleum economics in evaluating field development projects

Course Outlines of Hydrocarbon Production Operations MBA

DAY 1

- Introduction and Overview
- Global Energy Statistics
- Hydrocarbon Industry Components
- The Upstream Operations
 - Exploration Methods
 - Seismic Surveys
 - Drilling Operation
 - Drilling Problems & Challenges
 - Well Testing, Completion
 - Hydrocarbon Production Problems
 - Well Stimulation & Maintenance

DAY 2

- Hydrocarbon Properties
- Rock Properties
- Porosity & Permeability
- Estimating Hydrocarbon Reserves
- Oil & Gas Production
- Artificial Lift Methods & Facilities
- Reservoir Drive Mechanisms
- Pressure Maintenance Technology
- Hydrocarbon Recovery Methods
- Primary, Secondary & Tertiary Recovery
- Reservoir Simulation
- Oil & Gas Field Surface Facilities

DAY 3

- The Downstream Operations
 - Wellheads Types
 - Production Manifolds
 - GOSP Facilities
 - Oil & Gas Separation
 - Emulsion Treatment

- Separator types, Operation & Troubleshooting
- Oil Treatment, Storage & Transportation
- Oil Tank Types
- Gas Treatment & Processing
- Process Troubleshooting

DAY 4

- Heat Exchangers
- Oil & Gas Measurement and Control
- Pipeline Operation & Pigging
- Valve Types
- Pumps & Compressor Stations
- Refinery Operations & Products
- Operation Troubleshooting

DAY 5

- The Role of Technology
- Safety & Accident Prevention
- Production Problems
- Corrosion Protection & Cathodic Protection
- Scale Prevention & Treatment
- Petroleum Economics & Risk Analysis

Registration form on the Training Course: Hydrocarbon Production Operations MBA

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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