

Scandinavian Academy Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Hydrocarbon Production Operations MBA

Code	City	hotel	Start	End	price	Language - Hours
OG-131SA	Abha	Hotel Meeting Room	2027-09-19	2027-09-23	12950 SR	En - 25

INTRODUCTION

This programme 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 strong emphasis of the calculation of reserves, fluids properties from reservoir through gathering network. This knowledge is necessary for the surface facility engineer to design or operate the equipments and facilities.

PROGRAMME OBJECTIVES

- 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 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 programme will include a number of exercises aimed at enhancing each participant 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 the petroleum field operations.

Additionally, the programme 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 an improved knowledge about various aspects of the oil & gas production operations. These include 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.

PROGRAMME SUMMARY

This programme will provide an insight into the oil & gas field operation processes and the role of production engineering. It will explain the important concepts in reservoir and well drilling and intervention, productivity optimisation, verious recovery mechanisms, as well as covering various operational issues. Core Competencies are:

- Gain an overall knowledge of various hydrcarbon production processes from the time a reservoir is discovered to end users
- Understand the role of the petroleum/reservoir engineer in optemizing recovery
- Gain sufficient knowledge of various surface and sub-surface equipments and processing facilities used in a typical oil & gas field

- Gain sufficient knowledge about health, safety and enviromnmental issues
- Understand the role of petroleum economiucs in evaluating field development projects

PROGRAMME OUTLINE

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

The Scandinavian Academy for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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