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Course Name

Introduction to Oil & Gas Industry

Sector Name

Oil, Gas and Chemical

Document Type

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Introduction to Oil & Gas Industry

Course Introduction

This course is designed to ensure awareness and effective understanding of various phases of the oil industry from exploration to decommissioning and offers oil and gas professionals the opportunity to gain a technical and commercial understanding of the industry fundamentals.

The course also provides a comprehensive overview of the upstream, midstream, and downstream sectors of the petroleum industry. Also, it addresses and emphasizes the roles of the various disciplines across the industry organizations, which helps in enhancing the cross-functional work performance, promoting cooperation and teamwork spirit amongst the teams across various organizations and within the same organization. This can be the operator's best insurance to achieve successful, safe operations.

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Introduction to Oil & Gas Industry

Target Audience

- ✓ Process design
- ✓ Unit Operator
- ✓ Environmental
- ✓ Process safety engineer
- ✓ Gasoline blender engineer
- ✓ Lab supervisor
- ✓ Supply chain engineer
- ✓ Distillates analyst
- ✓ Models engineer
- ✓ Chemical Operator
- ✓ Chemical Plant Operator
- ✓ Chemical Process Technician
- ✓ Control Room Supervisor
- ✓ Gas Plant Process Operator
- ✓ Gas Production Operator
- ✓ Gas Terminal Operations and Storage
- ✓ Gathering Pipeline engineer
- ✓ Oil Terminal / Storage engineer
- ✓ Pipeline Maintenance / Equipment / Compliance / Repair
- ✓ Pipeline Testing / Technician / Supervisor / Safety
- ✓ Plant Equipment Operator

✓ Plant Operations Technician

✓ Plant Shutdown

✓ Plant Supervisor

✓ Power Distribution

✓ Power Plant Manager

✓ Process Supervisor

✓ Refinery Operations Technician / Manager

✓ Terminal Operator / Manager

✓ Utilities Operator

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Learning Objectives

- ✓ Build a firm foundation of the principles and practices of O & G exploration and production.
- ✓ Understand the technical terminology, tools, and methods used during the exploration and production phase.
- ✓ Understand the key concepts, applications, and terminology associated with the acquisition, processing, and petroleum economics.
- ✓ Understand how interpretation of exploration, production & seismic data is conducted.
- ✓ Increase efficiency in the inter-departmental project team communication

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Introduction to Oil & Gas Industry

Course Outline

✓ 01 Day One

Module1.World Energy Supply and Demand

- ✓ Oil and gas supply and demand
- ✓ Classification of reserves
- ✓ Oil pricing and market issues
- ✓ Non-conventional oil, gas, and renewables

Module2.Petroleum Geology and Origins of Hydrocarbons

- ✓ The formation of petroleum
- ✓ Oil and gas reservoirs
- ✓ Reservoir rock and fluid properties

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Course Outline

✓ 02 Day Two

Module3.Ownership and Exploitation of Reserves

- ✓ Licensing/concessions
- ✓ Joint-venture agreements
- ✓ Production-sharing contracts

Module4.Exploration and Appraisal

- ✓ Geological and commercial factors necessary for successful exploration and appraisal
- ✓ Seismic surveys

Module5.Drilling & Workover Operations

- ✓ Drilling rigs
- ✓ Equipment and processes involved in drilling a well
- ✓ Completing a well and preparing it for production
- ✓ Horizontal drilling
- ✓ Well workover operations

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Course Outline

✓ 03 Day Three

Module6.Field Development

- ✓ Onshore/offshore developments
- ✓ Shallow/deep water developments
- ✓ Gas field developments
- ✓ Aspects of well and facilities design

Module7.Petroleum Economics

- ✓ Field development decision-making
- ✓ Key economic indicators and their uses

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Course Outline

✓ 04 Day Four

Module8.Health, safety, and the environment

- ✓ Safety
- ✓ The environment

Module9.Oil Recovery Methodologies

- ✓ Reservoir production mechanisms
- ✓ Artificial lift systems
- ✓ Well stimulation - fracturing, acidizing, and sand control
- ✓ Production and treatment of reservoir fluids
- ✓ Processing the production from oil and gas fields

Module10.Maintenance and logistics

- ✓ Well and facility maintenance
- ✓ Reliability-centered maintenance
- ✓ Corrosion and how it is controlled
- ✓ Transportation of personnel and materials

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Course Outline

✓ 05 Day Five

Module11.Decommissioning

- ✓ Possible decommissioning solutions
- ✓ Scope of decommissioning obligations

Module12.Future issues and challenges

- ✓ Meeting future energy demand
- ✓ Environmental sustainability
- ✓ Security of supply

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 9, 2027	Aug. 13, 2027	5 days	4950.00 $	South Africa , Cape Town
April 19, 2027	April 23, 2027	5 days	4250.00 $	UAE , Dubai
Nov. 23, 2026	Nov. 27, 2026	5 days	2150.00 $	Virtual , Online
March 15, 2027	March 19, 2027	5 days	4250.00 $	UAE , Dubai

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