TECHNICAL
EDUCATION
ACADEMY

School of Business and Management

COURSE PROGRAMME

000196

IOGB001 - Introduction to Oil and Gas Business

This introductory course will take the participant through the progression from geological concept through drilling the exploratory well to the production phase.



Learn from the Best in the Business!

Course overview

Foundation level

Why take this course

This introductory course will take the participant through the progression from geological concept through drilling the exploratory well to the production phase. It will assist participants in knowing the principals and tools to be used in exploring, drilling, developing and producing oil and gas for deeply hidden reservoirs.

Introduction to the Oil and Gas Business is an essential introductory course that provides an overview of pipeline engineering. This course includes an overview of petroleum geology, reservoir & well equipment, extraction and processing, pipeline facilities, hydrocarbon properties, statutory requirements overview, pipeline components, gas analysis, SCADA and control systems, process and instrumentation diagrams, pigging, corrosion control, gas compression and flow measurements.

Who it is for and how it helps

This course is designed for almost all the personnel working for an oil company including fresh graduates, junior geoscientists, and petroleum, drilling and production engineers drillers, foremen, operators and administrative staff.

What you will learn

- Explain the principles of petroleum geology, extraction and processing
- Describe the functions of typical well and hydrocarbons processing facilities
- Describe the properties of hydrocarbons
- Explain the principles of operation of typical instruments, monitoring and control systems
- Explain the principles of pigging
- Explain the principles of compression
- Explain the principles of rotating equipment, lubrication and bearings
- Explain the principles of corrosion control
- Interpret process and instrumentation diagrams for a facility

Curriculum

Modules 01–07

01 History of the Earth

- History of the Earth

02 Petroleum Geology

- Petroleum Geology

03 History and Geopolitics of the oil industry

- History and Geopolitics of the oil industry

04 Uses for Oil and Gas

- Uses for Oil and Gas

05 The Big Picture

- Upstream
- Midstream
- Downstream

06 Upstream

- Upstream Oil & Gas Agreements
- Petroleum Geology & the Exploration Process
- Drilling and Well Completions
- Oilfield Development
- Gasfield Development and Wholesale Markets
- Marketing & Trading of Crude Oil and Gas

07 Midstream

- Crude Oil Transportation & Storage
- Refining & Product Specifications
- Gas Processing and NGL Markets
- LNG Value Chain and Markets

Curriculum

Modules 07–14 · Module 07 — continued

- Natural Gas Pipelines, Facilities and Tariffs
- Load Balancing Including Underground Gas Storage
- Overview of Petrochemicals

08 Downstream

- Marketing & Distribution of Petroleum Products
- Gas Distribution, Marketing & Trading

09 Economics

- Economics

10 Safety, Health & Environment

- Safety, Health & Environment

11 Unconventional

- Unconventional

12 Alternatives & The Future

- Alternatives & The Future

13 Health, Safety and Environment

- Health, Safety and Environment

14 Oil and Gas Fields of your region

- Oil and Gas Fields of your region

Participation and contacts

Joining the programme

Contact the Academy and quote course code 000196 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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