

Course Description

Oil and Gas Primer Course provides a complete and thorough introduction to the basic terminology, methods and practices used in the oil and gas industry. The Oil and Gas Primer Course is ideal for people entering the oil and gas industry or for people in organizations that support the oil and gas industry.

The course is broken down into thirteen modules that provide the learner with a comprehensive overview of the oil and gas industry. Learners will be introduced to the following:

- The role of the production accountant
- Basic concepts from the field of geology and how they are applied in the oil and gas industry
- Techniques and strategies used in the exploration for oil
- The scouting process and the impact of land ownership
- How the properties of reservoir rocks and fluids affect the production of reservoir fluids and how oil and gas reserves are calculated
- Concepts and processes involved in cash flow analysis and investment decisions
- Recovery techniques used in oil reservoirs
- Planning the drilling operation, types of drilling rigs and drilling methods
- The processes and tools used in well completion
- How production data and reports are compiled and used
- The role pipelines, refineries and marketing play in oil and gas production
- Fundamental accounting concepts, terminology and functions
- How the petroleum industry interacts with the environment

Each module includes interactive exercises that reinforce key ideas and prepares learners for the online evaluation. The course design reflects competency-based Adult Learning principles, and the course content is provided in a relevant and interesting environment.

Course Syllabus

Module 1 – Overview and Role of Production Accountant

- 1.1 Describe History of the Oil Patch
- 1.2 Describe EUB and OPEC
- 1.3 Describe Role of the Production Accountant

Module 2 – Geology

- 2.1 Describe Geology

Module 3 – Exploration

- 3.1 Describe Prospects
- 3.2 Describe Exploration
- 3.3 Describe Plays

Module 4 – Scouting the Land

- 4.1 Describe Scouting
- 4.2 Describe Land

Module 5 – Reservoir Engineering

- 5.1 Describe Rock and Fluid Properties
- 5.2 Describe Reserves and Production Forecasting

Module 6 – Economics

- 6.1 Describe Economic Cash Flow Analysis
- 6.2 Describe Investment Decisions

Module 7 – Recovery Techniques

- 7.1 Describe Oil Reservoirs – Primary Recovery
- 7.2 Describe Oil Reservoirs – Pressure Maintenance
- 7.3 Describe Oil Reservoirs – Thermal Recovery
- 7.4 Describe Oil Reservoirs – Enhanced Recovery

Module 8 – Drilling

- 8.1 Describe Planning the Drilling Operation
- 8.2 Describe the Drilling Rig
- 8.3 Describe Making Hole

Module 9 – Completions and Workovers

- 9.1 Describe Casing and Tubular Completion Configurations

Module 10 – Production Operations

- 10.1 Describe Overview of Field Operations
- 10.2 Describe Single Oil Well Facilities
- 10.3 Describe Measurement
- 10.4 Describe Storage

- 10.5 Describe Disposition Equipment
- 10.6 Describe oil Disposition
- 10.7 Describe Gas Field Facilities

Module 11 – Pipelines, Refining and Marketing

- 11.1 Describe Pipelines
- 11.2 Describe Refineries
- 11.3 Describe Marketing

Module 12 – Oil and Gas Accounting

- 12.1 Describe Fundamental Accounting Concepts and Terminology
- 12.2 Describe Primary Accounting Functions

Module 13 – Environment

- 13.1 Describe Environment