

# Financial Modelling in the Gas and Oil Sector

Financial Forecasting, Modelling, and Management Skills

## Introduction

The goal of this training session on financial modelling in the oil and gas industry is to improve participants' comprehension of advanced Excel usage. The worldwide competitive landscape that impacts businesses in all industries, including the oil and gas industry. The capacity of using Excel to its utmost is the minimal required to remain competitive in the current climate. The goal of this training programme is to provide participants a thorough understanding of financial modelling with Excel. After completing the course, the delegates will be able to use Excel effectively and will know how to handle a number of crucial problems with financial modelling, performance evaluations, and goal-setting through advanced methods. The delegates will have the knowledge to explain and propose numerous ways essential in increasing corporate performance.

Furthermore, the ability to advance professionally and work in either the upstream or downstream sectors is hampered by out-of-date understanding of modelling methodologies, performance evaluation metrics, and constraints. In order to help participants advance their careers and increase their confidence in financial modelling, this programme focuses on their areas of weakness.

**The following will be covered in this Course N Carry Financial Modelling in the Oil & Gas Sector training course:**

- Excel applications ranging from the most basic to the most sophisticated
- A practical approach to the field
- Several instances centred on the oil and gas sector
- A two-pronged strategy that enhances financial management and modelling abilities
- Comprehensive evaluation of the performance utilising statistical methods

## Objectives

**Following completion of this training session on Financial Modelling in the Oil and Gas Sector, participants will be qualified to:**

- Raising the standard of the quantitative evaluation of business presentations
- Utilise financial models in the gas and oil sector.
- Determine the right discount rate in an efficient manner.
- Employ a range of investment appraisal technique models.

- Utilise business statistics to improve operations and help the organisation define goals.

## Training Methodology

Formal lectures, modelling technique demonstrations, and opportunities for hands-on application will all be included in each session. Participants will be better equipped to apply these abilities in the workplace by understanding the practical applications of the strategies utilised through the use of micro cases and practical examples.

## Organizational impacts

**The following are significant benefits that the organisation will experience by taking this Course N Carry Financial Modelling in the Oil & Gas Sector training course:**

- Presenting chances for advanced financial management skill development
- Financial modelling applied appropriately to the oil and gas sector
- Updating their quantitative methods so they could arrive at a more intelligent choice
- Developing advanced Excel understanding for financial modelling by transforming basic Excel skills
- Improving the application of business statistics
- Analysing data effectively to enhance daily operations

## Personal Impact

**The following are only a few of the numerous effects this training programme has on the participants:**

- Proficiency in Excel financial modelling Expand your skill set when making decisions for businesses
- The capacity to challenge significant choices made with financial modelling
- The capacity to employ statistics in operations and performance evaluations
- Using statistical analysis to set consistent goals
- A thorough comprehension of performance metrics

## Who should attend?

**A wide range of professionals can profit from this Financial Modelling in the Oil & Gas Sector training course, but the following will stand out as major advantages:**

- Decision-Making Officials and Performance Evaluation Experts
- Experts in financial modelling and budgeting
- Analysts and Accountants
- Experts in Financial Analysis
- Data analyst junior managers

# Course Outline

## Day 1

### Overview of the Oil and Gas Environment in Excel

- A Short-Term Excel Tutorial for Using Statistics to Define Data Sets
- Displaying Data Sets Visualising the Normal Distribution Concept
- Applying It Practically to Excel Trend Analysis and Time Series Analysis

## Day 2

### The application of statistical analysis in the oil and gas industry With Excel

- Statistical Analysis Using Excel Functions
- Application of Descriptive Statistics:
- The following regression techniques are used to calculate the cost of equity financing: mean, median, standard deviation, skewness, and Kurtosis; use of scatter diagrams, frequency, and histogram distribution.
- Analysis of equity returns of companies in the oil and gas industry

## Day 3

### Spreads of Oil Products: Analysing the Connection between Energy Products

- Variations among Data Sets and their significance.
- Correlation Study
- Application of Analysis of Variance (ANOVA)
- Confidence Intervals

## Day 4

### Excel-Based Investment Appraisal

- Application to the Oil and Gas Sector Using NPV, IRR, and Payback
- Utilising Excel's IRR, PV, and NPV functions for investment appraisal
- Modified Internal Rate of Return (MIRR)
- Using Stress Testing and Scenario Analysis to Predict Financial Distress

# Day 5

## The Upstream and Downstream Oil and Gas Industry: Financial Analysis

- Overview of Financial Statements
- Ratio Analysis Used in the Petroleum and Gas Sector
- Cash flow forecasting by using excel
- Ratios as a System - Pyramids of Ratios Financial Modelling