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Course Name

Financial Modelling in the Oil and Gas industry

Sector Name

Oil, Gas and Chemical

Document Type

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Financial Modelling in the Oil and Gas industry

Course Introduction

This training course is designed to provide participants with the essential concepts on the advanced use of Excel in the oil & gas industry, particularly for financial modeling. This training course will cover topics such as how to deal with several important issues related to financial modelling, performance measurements, setting targets using sophisticated techniques, and various methods relevant to enhancing company performance.

Course Methodology

The training course is designed to be interactive and participatory, and includes various learning tools to enable the participants to operate effectively and efficiently in a multifunctional environment. The course will use lectures and presentations, exercises, experiential learning, and exposure to real-world problems and policy choices confronting delegates.

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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

- ✓ Improve the quality of the quantitative analysis of corporate presentations
- ✓ Apply financial modelling in the oil and gas industry
- ✓ Effectively assess the appropriate discount rate
- ✓ Use various models of investment appraisal techniques
- ✓ Use business statistics to enhance operations and target setting for the organization

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Course Outline

✓ 01 Day One

Introduction to the Excel Environment with Oil and Gas

- ✓ A Quick-start Tutorial for Excel
- ✓ Describing Data Sets Using Statistics
- ✓ Representing Data Sets Graphically
- ✓ Understanding the Concept of Normal Distribution and Practical Application
- ✓ Trend Analysis Using Excel
- ✓ Time Series Analysis

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Course Outline

✓ 02 Day Two

Statistical Analysis (Applied to the Oil and Gas Industry) Using Excel

- ✓ Use of Excel Functions for Statistical Analysis
- ✓ Descriptive Statistics and their applications:
- ✓ Mean
- ✓ Median
- ✓ Standard Deviation
- ✓ Skewness
- ✓ Kurtosis
- ✓ Use of Scatter Diagrams, Frequency, and Histogram Distribution
- ✓ Regression Techniques to Calculate the Cost of Equity Financing
- ✓ Analysis of Equity Returns of Oil and Gas Industry and Companies

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Course Outline

✓ 03 Day Three

Oil Product Spreads

- ✓ Examining the Relationship between Energy Products
- ✓ Differences between Data Sets and their importance.
- ✓ Correlation Analysis
- ✓ Confidence Intervals
- ✓ Application of Analysis of Variance (ANOVA)

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Course Outline

✓ 04 Day Four

Investment Appraisal Using Excel

- ✓ Investment Appraisal using NPV, IRR, and Payback as Applied to the Oil and Gas Industry
- ✓ Use of Excel Functions for Investment Appraisal: IRR, PV, and NPV
- ✓ Modified Internal Rate of Return (MIRR)
- ✓ Use of Scenario Analysis and Stress Testing
- ✓ Predicting Financial Distress

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Course Outline

✓ 05 Day Five

Financial Analysis in the Up and Downstream Oil and Gas Industry

- ✓ Introduction to Financial Statements
- ✓ Ratio Analysis Applied to the Oil and Gas Industry
- ✓ Ratios as a System – Pyramids of Ratios
- ✓ Financial Modelling
- ✓ Cash Flow Forecasts Using Excel

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 $	KSA , Riyadh
June 14, 2027	June 18, 2027	5 days	4250.00 $	UAE , Dubai
Sept. 27, 2027	Oct. 1, 2027	5 days	4950.00 $	Singapore , Singapore
Nov. 16, 2026	Nov. 20, 2026	5 days	4250.00 $	UAE , Dubai

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