



SCANDINAVIAN ACADEMY
For Training and Development

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Course: Effective Financial Modelling in the Refinery Industry

Code	City	Hotel	Start	End	Price	Language - Hours
FA-887	Barcelona (Spain)	Hotel Meeting Room	2026-05-04	2026-05-08	5450 €	En - 25

Introduction

This comprehensive training course is designed to strengthen your financial modelling capabilities through real-life case studies tailored to the Refinery Industry. It will enhance your finance-related decision-making skills, helping you to reduce costs, increase profitability, and minimize financial risks.

You will examine modern financial modelling tools and techniques for refinery operations, including sensitivity and scenario analysis, and simulations of changes in crude oil prices, processing costs, and market demand fluctuations.

This training course will feature:

- Practical application of financial modelling to real-life refinery industry cases
- Enhanced understanding of finance and its role in decision-making
- Development of practical financial models for operational and strategic use
- Hands-on training using Excel and the latest financial analysis tools
- Supporting materials in both printed and digital formats

What are the goals?

- Make improved financial decisions within refinery operations
- Build and utilize financial models specific to refinery economics
- Analyze refinery project viability and performance using financial data



- Evaluate cost structures and manage operational risks using models
- Simulate supply chain, pricing, and investment scenarios in refining

Who is this training course for?

- Finance professionals in refinery or petroleum sectors
- Engineers and project managers working in refinery planning or strategy
- Business analysts and decision-makers in downstream oil operations
- Anyone responsible for financial performance or budgeting in a refinery context

Course Outline

Day One: Financial Modelling in the Refinery Industry

- Introduction to financial modelling and its role in refinery decision-making
- Developing a refinery-specific financial model
- Estimating refining costs, crude input prices, and margins
- Forecasting product prices, feedstock costs, and operational expenses
- Using Excel for time series, regression, and correlation analysis
- Preparing financial statements: cash flow, income, and balance sheet projections

Day Two: Modelling to Improve Refinery Operational Efficiency

- Cost and duration estimation for refining processes
- Downtime and maintenance cost modelling
- Critical path and turnaround scheduling: financial and resource impact
- Earned Value Analysis for refinery upgrades or shutdowns
- Sensitivity and variance analysis in refining operations

Day Three: Evaluating Investment and Expansion in Refinery Projects

- Modelling strategic growth: capacity expansion and modernization



- Financial structure decisions: equity vs. debt financing
- Capital budgeting: Payback, ARR, NPV & IRR with refinery-specific inputs
- Working capital implications of storage, logistics, and product inventories
- M&A scenarios involving refineries and downstream assets

Day Four: Risk Management in Refinery Operations

- Identifying financial and operational risks in refining
- Risk modelling: crude price volatility, product yield fluctuations
- Simulating scenarios: feedstock supply disruptions, demand shocks
- Receivables/payables risk modelling
- Use of hedging instruments for oil price and currency risk mitigation

Day Five: Financial Performance Assessment and Strategic Modelling

- Ratio analysis applied to refinery KPIs
- Time-series and cross-sectional benchmarking
- Return on Capital Employed (ROCE) in refining
- Modelling for shareholder value and strategic business improvement
- Decision-support tools for refinery performance enhancement



The Scandinavian Academy for Training and Development adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training and Development.

Program Timings:

- 9:00 AM to 2:00 PM in Arab cities.
- 10:00 AM to 3:00 PM in European and Asian cities.

The program includes:

- A daily Coffee Break provided during the sessions to ensure participants comfort.