

Course No. 1498

Project Finance Modelling Training Course

**FINANCIAL MODELLING, VALUATION & BUSINESS ANALYSIS
FINANCE, INVESTMENT & BANKING**

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Project Finance Modelling Training Course provides a comprehensive and practical framework for building, analyzing, and applying financial models to capital-intensive projects, infrastructure investments, energy developments, and other long-term projects. The course is designed to help finance, investment, project development, banking, and corporate professionals translate operational, commercial, and financing assumptions into integrated financial models that support project feasibility assessment, funding decisions, debt capacity analysis, investment evaluation, and risk management.

The program focuses on developing a complete project finance model that begins with key project assumptions and progresses through revenue forecasting, operating costs, capital expenditure, working capital, cash flow projections, financing structure, debt schedules, debt service, and investment returns. Participants will learn how to establish clear relationships between project operations, financing requirements, cash generation, and debt repayment capacity.

The course covers the core principles of project finance, including debt and equity structures, leverage, financing costs, interest calculations, repayment mechanisms, debt service coverage, financial covenants, and funding requirements. Particular attention is given to understanding how changes in project revenues, operating costs, capital expenditure, interest rates, construction delays, financing terms, and operating assumptions can affect project viability and financial performance.

Through practical case studies, modelling exercises, financial workshops, scenario analysis, sensitivity testing, and stress testing, participants will develop the ability to build, review, challenge, and present project finance models. The course supports government entities, banks, financial institutions, oil and gas organizations, energy companies, infrastructure developers, investors, and large corporations in strengthening project evaluation, financing decisions, capital planning, and financial risk assessment.

Objectives

- Analyze the principles of project finance and explain the role of financial modelling in evaluating capital-intensive projects during the first day of the course.
- Develop an integrated project finance model that connects operational, commercial, and

financing assumptions by the end of the program.

- Apply practical techniques to forecast project revenues, operating costs, capital expenditure, working capital, and cash flows throughout the project lifecycle.
- Evaluate appropriate capital structures and debt-to-equity ratios and assess their impact on project risk, returns, and debt capacity.
- Design integrated debt schedules covering drawdowns, interest, repayments, maturities, and debt service requirements.
- Assess the project's ability to generate sufficient cash flow to meet financing obligations using appropriate debt service and coverage metrics.
- Apply sensitivity analysis, scenario analysis, and stress testing to evaluate the impact of operational and financial risks on project performance.
- Evaluate project returns, value, and financial feasibility under different operating, financing, and market assumptions.
- Improve financial model quality through consistency checks, formula validation, linkage testing, and review of key assumptions.
- Prepare and present a complete project finance model that supports investment, financing, and financial risk decisions during the final workshop.

Who Should Attend

The Project Finance Modelling Training Course is designed for professionals working in project finance, corporate finance, investment, financial analysis, banking, financial advisory, infrastructure development, and project development. It is also suitable for financial analysts, accountants, investment specialists, project professionals, and professionals involved in evaluating capital-intensive projects, infrastructure investments, energy developments, and long-term investments.

The course is particularly relevant to project finance managers, investment managers, finance managers, corporate development managers, project managers, risk managers, treasury professionals, credit specialists, senior financial analysts, and members of investment and financing committees. It is also valuable for executives, finance directors, and senior decision makers in government entities, ministries, public-sector organizations, banks, financial institutions, oil and gas companies, energy organizations, infrastructure developers, investment organizations, and large corporations involved in project financing and capital allocation decisions.

Learning Outcomes

- Explain the principles of project finance and distinguish project finance from traditional corporate financing.
- Identify the key operational, commercial, financial, and financing assumptions required to construct a project finance model.
- Build an integrated financial model linking project revenues, costs, capital expenditure, cash flows, financing, and debt obligations.
- Develop project financial forecasts and evaluate expected performance throughout construction and operating phases.
- Design a financing structure incorporating debt, equity, funding sources, and uses of funds.
- Build integrated debt schedules covering drawdowns, interest expenses, repayments, maturities, and debt service.
- Analyze project debt capacity using debt service coverage ratios, leverage measures, and other relevant financial indicators.
- Evaluate project returns, value, and financial feasibility under different operating and financing scenarios.
- Conduct sensitivity analysis and stress testing to determine the impact of revenue changes, cost increases, interest rate movements, construction delays, and other risks.
- Prepare and present a professional project finance model that clearly communicates assumptions, financing requirements, financial risks, results, and recommendations.

Course Outline

DAY 01

Project Finance Fundamentals and Financial Model Structure

- Principles and characteristics of project finance
- Project finance lifecycle and key financial stages
- Project finance versus traditional corporate finance
- Identifying project drivers and commercial and operational assumptions
- Revenue sources, pricing structures, production volumes, and demand assumptions
- Development, construction, operating, and maintenance costs
- Capital expenditure planning and project implementation timelines

DAY 01 — CONTINUED

- Designing the structure of an integrated project finance model

PRACTICAL APPLICATION

Establishing project assumptions and building the initial financial model structure

DAY 02

Operating Forecasts and Project Cash Flow Modelling

- Revenue forecasting and production or service volume assumptions
- Operating and maintenance cost modelling
- Operating margin and project profitability analysis
- Capital expenditure and construction phase modelling
- Working capital and liquidity requirements
- Developing the project income statement
- Developing the project balance sheet
- Operating, investing, and financing cash flow analysis

PRACTICAL APPLICATION

Building the project operating model and integrated cash flow forecast

DAY 03

Financing Structure and Debt Modelling

- Principles of project financing structures
- Determining debt and equity funding requirements
- Sources of project finance and roles of lenders and investors
- Leverage ratios and debt capacity assessment
- Building debt drawdown and outstanding balance schedules
- Interest expense and financing cost modelling
- Debt repayment schedules and maturity structures
- Debt service calculations and coverage ratios

DAY 03 — CONTINUED

- Financial covenants and financing constraints

PRACTICAL APPLICATION

Building an integrated project financing and debt model

DAY 04

Project Feasibility, Risk Analysis and Stress Testing

- Assessing project financial and economic feasibility
- Present value, investment returns, and project valuation
- Evaluating debt service capacity
- Debt service coverage and leverage analysis
- Identifying operational, financial, market, and financing risks
- Sensitivity analysis for revenues, operating costs, and capital expenditure
- Interest rate, construction delay, and cost overrun analysis
- Base case, upside case, and downside case scenarios
- Stress testing project financial performance

PRACTICAL APPLICATION

Performing sensitivity and stress testing and assessing the impact on project feasibility

DAY 05

Integrated Project Finance Model and Investment Decision-Making

- Integrating the operating, financing, debt, and cash flow models
- Model integrity, formula validation, linkage testing, and consistency checks
- Identifying key project value drivers and financial risks
- Evaluating project performance against investor and lender requirements
- Preparing financial analysis for management, investment committees, and financing stakeholders

DAY 05 — CONTINUED

- Communicating project assumptions, financing requirements, returns, and risks
- Developing financing and investment recommendations based on model results

FINAL WORKSHOP

Building and presenting a complete project finance model

- Final review, implementation recommendations, and action planning

Register or Request More Information

Course page: <https://quest-training.com/courses/project-finance-modelling-training-course>

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