Training Course on PPP Project Financial Modeling with Excel

Professional Development Training Course Outline

Category	Business	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Public-Private Partnership (PPP) projects require robust financial modeling to assess viability, optimize risk allocation, and ensure financial sustainability. This comprehensive PPP Project Financial Modeling with Excel training equips professionals with advanced Excel techniques to build, analyze, and interpret financial models tailored for infrastructure and development projects.

Participants will gain hands-on experience in structuring financial models, forecasting cash flows, conducting risk analysis, and evaluating project feasibility. The course emphasizes financial structuring, debt financing, scenario analysis, and sensitivity testing to support strategic decision-making in PPP projects. By mastering Excel-based financial modeling, participants will be able to enhance project evaluations, improve investment decisions, and strengthen financial negotiations.

Programme Curriculum

Training Course on PPP Project Financial Modeling with Excel

Introduction

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Course Objectives

By the end of this course, participants will be able to:

1. Understand PPP financing structures and risk allocation.
2. Develop dynamic and structured financial models using Excel.
3. Forecast cash flows, revenues, and expenses for PPP projects.
4. Conduct debt modeling and loan repayment calculations.
5. Perform discounted cash flow (DCF) analysis and net present value (NPV) calculations.
6. Assess internal rate of return (IRR) and payback period.
7. Apply sensitivity and scenario analysis to model risks.
8. Incorporate project finance ratios (DSCR, LLCR, PLCR) into financial models.
9. Model capital investment and project cost structures.
10. Evaluate PPP project feasibility from public and private sector perspectives.
11. Automate financial model reporting using Excel tools.
12. Integrate macros and VBA for enhanced model efficiency.
13. Present financial analysis results for decision-makers and stakeholders.

Target Audience

1. PPP Project Managers and Analysts
2. Investment Bankers and Financial Analysts
3. Government Officials in Infrastructure Financing
4. Project Finance Professionals
5. Infrastructure and Real Estate Developers
6. Economic and Policy Analysts
7. Corporate Finance and Treasury Managers
8. Consultants and Advisors in PPP Projects

Course Content

Module 1: Introduction to PPP Project Finance

- Overview of PPP models and financing structures
- Key stakeholders in PPP projects
- Risk allocation and contractual arrangements
- Understanding project cash flow cycles
- Role of financial modeling in PPP projects

Module 2: Excel Essentials for Financial Modeling

- Advanced Excel functions for financial modeling
- Structuring financial models for flexibility and accuracy
- Best practices for linking, referencing, and auditing models
- Data visualization techniques for financial analysis
- Using Excel shortcuts for efficient modeling

Module 3: Developing a Financial Model Structure

- Designing the model framework and input sheets
- Structuring revenue and cost assumptions
- Modeling operating and maintenance costs
- Setting up financial statements (Income Statement, Balance Sheet, Cash Flow)
- Creating dynamic dashboards for key financial metrics

Module 4: Revenue Forecasting and Demand Modeling

- Identifying revenue drivers in PPP projects
- Developing tariff models and pricing strategies
- Estimating demand and utilization rates
- Sensitivity analysis on revenue assumptions
- Adjusting for inflation and currency fluctuations

Module 5: Capital Investment and Cost Modeling

- Estimating construction and capital expenditure (CAPEX)

- Phased investment and cost escalation modeling
- Asset depreciation and amortization calculations
- Handling infrastructure maintenance and lifecycle costs
- Financing capital costs through debt and equity

Module 6: Debt Financing and Loan Structuring

- Types of debt financing for PPP projects
- Debt repayment structures (bullet, annuity, sculpted)
- Loan interest calculations and repayment schedules
- Debt Service Coverage Ratio (DSCR) and financial covenants
- Impact of refinancing on project feasibility

Module 7: Equity Modeling and Financial Returns

- Structuring equity contributions in PPP projects
- Calculating return on equity (ROE) and dividends
- Investor cash flow modeling and waterfall structures
- Measuring IRR and Net Present Value (NPV)
- Equity financing strategies and exit options

Module 8: Discounted Cash Flow (DCF) and Valuation Techniques

- Time value of money and discount rate selection
- Calculating free cash flow to firm (FCFF) and free cash flow to equity (FCFE)
- Applying Weighted Average Cost of Capital (WACC)
- Conducting terminal value calculations
- Comparing valuation methodologies for PPP projects

Module 9: Sensitivity and Scenario Analysis

- Identifying key risk variables in PPP projects
- Creating dynamic sensitivity tables in Excel
- Scenario planning for best-case and worst-case scenarios
- Stress testing model assumptions
- Interpreting results for investment decision-making

Module 10: Financial Ratio Analysis for PPP Projects

- Understanding key financial ratios (DSCR, LLCR, PLCR)
- Analyzing project solvency and liquidity metrics
- Measuring project profitability and efficiency
- Benchmarking against industry standards
- Using ratio analysis for investment negotiations

Module 11: Risk Analysis and Mitigation Strategies

- Identifying financial and operational risks
- Applying Monte Carlo simulations in risk analysis
- Modeling risk-sharing mechanisms in PPP contracts
- Financial structuring to mitigate risk exposure
- Case studies on risk management in PPP projects

Module 12: Project Feasibility and Bankability Assessment

- Evaluating financial viability from private and public perspectives
- Conducting break-even analysis for PPP projects
- Assessing project bankability for lenders and investors
- Identifying key factors affecting PPP project success
- Preparing feasibility study reports and presentations

Module 13: Macros and VBA for Financial Modeling

- Introduction to VBA programming for Excel
- Automating financial model updates using macros
- Creating user-friendly model interfaces
- Customizing financial model reporting with VBA
- Debugging and optimizing VBA code for financial modeling

Module 14: Advanced Model Structuring and Optimization

- Building modular financial models for flexibility
- Dynamic modeling techniques for long-term projects
- Optimizing model structures for investor presentations
- Ensuring model consistency and reliability
- Conducting model audits and validations

Module 15: Final Project and Certification

- Hands-on development of a complete PPP financial model
- Peer reviews and trainer feedback
- Presentation of financial model findings
- Final evaluation and model optimization
- Certification of completion and professional recognition

Training Methodology

1. **Hands-On Excel Training** – Practical exercises in building financial models step-by-step.
2. **Real-World Case Studies** – Application of financial modeling to actual PPP projects.
3. **Interactive Group Discussions** – Collaborative problem-solving on financial structuring.
4. **Live Model Demonstrations** – Step-by-step breakdown of complex PPP models.
5. **Expert Coaching & Feedback** – Personalized guidance on improving financial models.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.com or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to FINESKILL TRAINING CENTER account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
07 Sep 2026	18 Sep 2026	Online	$3,000
14 Sep 2026	25 Sep 2026	Online	$3,000
21 Sep 2026	02 Oct 2026	Online	$3,000
28 Sep 2026	09 Oct 2026	Online	$3,000
05 Oct 2026	16 Oct 2026	Online	$3,000
12 Oct 2026	23 Oct 2026	Online	$3,000
19 Oct 2026	30 Oct 2026	Online	$3,000
26 Oct 2026	06 Nov 2026	Online	$3,000

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