Feasibility Studies and Economic Analysis of Infrastructure Projects Training Course

Professional Development Training Course Outline

Category	Civil Engineering and Infrastructure Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Infrastructure projects, encompassing everything from intricate transportation networks to essential energy facilities, represent significant public and private investments that promise long-term societal impacts. However, due to their immense scale, inherent complexity, and the public good they often serve, these projects invariably carry substantial risks if not meticulously evaluated. A superficial or incomplete assessment can tragically lead to egregious cost overruns, underperforming assets failing to meet their intended purpose, and ultimately, missed opportunities for sustainable national development. Therefore, robust Feasibility Studies and Economic Analysis are paramount, serving as the foundational bedrock for sound decision-making, ensuring that projects are not only technically viable and financially sustainable but also economically justifiable and comprehensively aligned with broader societal goals. Feasibility Studies and Economic Analysis of Infrastructure Projects Training Course is meticulously designed to provide participants with a comprehensive understanding and practical application of methodologies for conducting rigorous feasibility studies and in-depth economic analysis specifically for infrastructure projects. The curriculum will encompass mastering advanced techniques for market demand forecasting, thorough technical viability assessment, sophisticated financial modeling (including Net Present Value (NPV), Internal Rate of Return (IRR), and Payback Period calculations), and holistic socio-economic impact evaluation (utilizing tools such as Cost-Benefit Analysis and Multi-Criteria Analysis). The course will delve into critical aspects such as proactive risk identification and strategic mitigation during the crucial feasibility stage, navigating complex legal and environmental considerations, and understanding the pivotal role of comprehensive stakeholder analysis. Through detailed case studies from diverse infrastructure sectors, hands-on exercises in financial modeling and economic appraisal, and insightful discussions on overcoming real-world data and analytical challenges, participants will be thoroughly equipped to competently evaluate project proposals, confidently advise on complex investment decisions, and meaningfully contribute to the development of sustainable and impactful infrastructure that truly serves national interests.

Programme Curriculum

Feasibility Studies and Economic Analysis of Infrastructure Projects Training Course

Introduction

Infrastructure projects, encompassing everything from intricate transportation networks to essential energy facilities, represent significant public and private investments that promise long-term societal impacts. However, due to their immense scale, inherent complexity, and the public good they often serve, these projects invariably carry substantial risks if not meticulously evaluated. A superficial or incomplete assessment can tragically lead to egregious cost overruns, underperforming assets failing to meet their intended purpose, and ultimately, missed opportunities for sustainable national development. Therefore, robust Feasibility Studies and Economic Analysis are paramount, serving as the foundational bedrock for sound decision-making, ensuring that projects are not only technically viable and financially sustainable but also economically justifiable and comprehensively aligned with broader societal goals.

Feasibility Studies and Economic Analysis of Infrastructure Projects Training Course is meticulously designed to provide participants with a comprehensive understanding and practical application of methodologies for conducting rigorous feasibility studies and in-depth economic analysis specifically for infrastructure projects. The curriculum will encompass mastering advanced techniques for market demand forecasting, thorough technical viability assessment, sophisticated financial modeling (including Net Present Value (NPV), Internal Rate of Return (IRR), and Payback Period calculations), and holistic socio-economic impact evaluation (utilizing tools such as Cost-Benefit Analysis and Multi-Criteria Analysis). The course will delve into critical aspects such as proactive risk identification and strategic mitigation during the crucial feasibility stage, navigating complex legal and environmental considerations, and understanding the pivotal role of comprehensive stakeholder analysis. Through detailed case studies from diverse infrastructure sectors, hands-on exercises in financial modeling and economic appraisal, and insightful discussions on overcoming real-world data and analytical challenges, participants will be thoroughly equipped to competently evaluate project proposals, confidently advise on complex investment decisions, and meaningfully contribute to the development of sustainable and impactful infrastructure that truly serves national interests.

Course Objectives

Upon completion of this course, participants will be able to:

1. Analyze the fundamental purpose and scope of feasibility studies for infrastructure projects.
2. Comprehend the key components of a comprehensive infrastructure feasibility study (technical, financial, economic, environmental, social, legal).
3. Master techniques for conducting market and demand analysis for various infrastructure sectors.
4. Develop expertise in assessing the technical viability and optimal design options for infrastructure projects.
5. Formulate strategies for developing robust financial models, including cash flow projections and financial indicators (NPV, IRR, Payback).
6. Understand the critical role of economic appraisal methods, particularly Cost-Benefit Analysis (CBA), for public infrastructure.
7. Implement effective processes for identifying and assessing project risks during the feasibility stage.
8. Explore key strategies for integrating environmental, social, and legal considerations into feasibility studies.

9. Apply methodologies for conducting sensitivity analysis and scenario planning in project evaluation.
10. Understand the importance of stakeholder analysis and engagement in the feasibility process.
11. Develop preliminary skills in utilizing specialized software tools for financial and economic modeling.
12. Design a conceptual framework for a comprehensive feasibility study for a chosen infrastructure project.
13. Examine global best practices, common pitfalls, and ethical considerations in infrastructure project evaluation.

Target Audience

This course is ideal for professionals involved in the planning, financing, and evaluation of infrastructure projects:

1. Project Developers & Managers: Involved in initiating and planning infrastructure projects.
2. Financial Analysts & Investors: Assessing the viability of infrastructure investments.
3. Government Officials: From Ministries of Planning, Finance, Infrastructure, and Public Works.
4. Economists & Policy Makers: Responsible for public investment appraisal.
5. Consultants: Providing advisory services on infrastructure project development.
6. Engineers & Technical Specialists: Needing to understand the broader project viability.
7. Environmental & Social Impact Assessors: Integrating their findings into project feasibility.
8. Lenders & Fund Managers: Evaluating project proposals for financing.

Course Duration: 5 Days

Course Modules

- **Module 1: Introduction to Feasibility Studies and Project Lifecycle**
  - Define feasibility studies and their role in the **project lifecycle**.
  - Discuss the key stages of infrastructure project development.
  - Understand the objectives and scope of a **comprehensive feasibility study**.
  - Explore different types of feasibility studies (e.g., pre-feasibility, full feasibility).
  - Identify the importance of early-stage project evaluation for **risk mitigation**.
- **Module 2: Market and Demand Analysis for Infrastructure**
  - Comprehend techniques for assessing **market potential and demand** for infrastructure services.
  - Learn about data collection methods: surveys, statistical analysis, demographic trends.
  - Master techniques for forecasting future demand and revenue streams.
  - Discuss the impact of economic growth, population changes, and policy on demand.
  - Apply demand forecasting models to a specific infrastructure sector.
- **Module 3: Technical and Operational Feasibility**
  - Develop expertise in evaluating the **technical viability** of infrastructure solutions.
  - Learn about assessing technology options, site conditions, and design alternatives.
  - Master techniques for evaluating **operational efficiency** and maintenance requirements.
  - Discuss the importance of engineering assessments, standards, and regulatory compliance.
  - Identify key technical risks and mitigation strategies.
- **Module 4: Financial Feasibility Analysis**
  - Formulate strategies for developing comprehensive **financial models** for infrastructure projects.
  - Understand the key financial statements: income statement, balance sheet, cash flow statement.
  - Explore techniques for calculating **financial indicators**: Net Present Value (NPV), Internal Rate of Return (IRR), Payback Period.
  - Discuss sources of finance (equity, debt, grants) and capital structuring.
  - Apply financial modeling concepts to assess project financial viability.

- **Module 5: Economic Analysis and Cost-Benefit Analysis (CBA)**
    - Understand the critical distinction between financial and **economic analysis**.
    - Implement robust approaches to conducting **Cost-Benefit Analysis (CBA)** for public sector projects.
    - Explore techniques for valuing non-market benefits and costs (e.g., environmental, social).
    - Discuss the use of economic indicators: Economic NPV, Economic IRR, Benefit-Cost Ratio.
    - Apply CBA methodologies to evaluate the socio-economic impact of an infrastructure project.
- **Module 6: Risk Assessment and Mitigation in Feasibility**
    - Develop expertise in identifying and categorizing **risks** specific to the feasibility stage.
    - Learn about qualitative and quantitative risk assessment techniques (e.g., sensitivity analysis, scenario analysis).
    - Master techniques for developing **risk mitigation strategies** and contingency plans.
    - Discuss the impact of political, regulatory, environmental, and social risks on project viability.
    - Apply risk assessment frameworks to an infrastructure project feasibility study.
- **Module 7: Environmental, Social, and Legal Aspects**
    - Comprehend the importance of integrating **environmental and social impact assessments (ESIA)**.
    - Learn about regulatory requirements, permits, and **legal frameworks** for infrastructure.
    - Master techniques for conducting **stakeholder analysis** and managing public consultation.
    - Discuss land acquisition, resettlement, and community engagement strategies.
    - Identify key environmental, social, and legal risks and compliance requirements.
- **Module 8: Feasibility Report Writing, Decision Making, and Case Studies**
    - Formulate strategies for structuring and writing a comprehensive **feasibility report**.
    - Understand the key elements and recommendations of a final feasibility study.
    - Explore techniques for presenting findings and advising on **investment decisions**.
    - Discuss real-world **case studies** of successful and unsuccessful infrastructure project feasibility.
    - Apply learned methodologies to review and critique an actual infrastructure feasibility report.

Training Methodology

- **Interactive Workshops:** Facilitated discussions, group exercises, and problem-solving activities.
- **Case Studies:** Real-world examples to illustrate successful community-based surveillance practices.
- **Role-Playing and Simulations:** Practice engaging communities in surveillance activities.
- **Expert Presentations:** Insights from experienced public health professionals and community leaders.
- **Group Projects:** Collaborative development of community surveillance plans.
- **Action Planning:** Development of personalized action plans for implementing community-based surveillance.
- **Digital Tools and Resources:** Utilization of online platforms for collaboration and learning.
- **Peer-to-Peer Learning:** Sharing experiences and insights on community engagement.
- **Post-Training Support:** Access to online forums, mentorship, and continued learning resources.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org 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

- Participants must be conversant in English.
- Upon completion of training, participants will receive an Authorized Training Certificate.
- The course duration is flexible and can be modified to fit any number of days.
- Course fee includes facilitation, training materials, 2 coffee breaks, buffet lunch, and a Certificate upon successful completion.
- One-year post-training support, consultation, and coaching provided after the course.
- Payment should be made at least a week before the training commencement to Fineskill Training Center account, as indicated in the invoice, to enable better preparation.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com