Construction Economics Training Course

Professional Development Training Course Outline

Category	Construction Institute	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Construction Economics Training Course is designed to equip construction professionals with advanced knowledge of cost management, economic analysis, financial forecasting, project feasibility, and sustainable construction practices. In today's rapidly evolving built environment, organizations require experts who can optimize resources, control project costs, improve profitability, and make data-driven decisions. This course integrates construction cost planning, lifecycle costing, digital construction economics, value engineering, procurement strategies, and risk-based financial modeling to develop future-ready construction economists and project leaders.

With a strong focus on Construction 4.0, Building Information Modeling (BIM), Artificial Intelligence (AI) applications, sustainable infrastructure, smart project controls, and global construction market trends, this training empowers participants to evaluate complex construction investments and deliver economically efficient projects. Through practical learning, industry case studies, and real-world applications, participants gain the skills required to enhance project performance, cost efficiency, financial sustainability, and strategic decision-making across residential, commercial, industrial, and infrastructure developments.

Programme Curriculum

Construction Economics Training Course

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Course Duration

5 days

Course Objectives

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

1. Understand advanced principles of construction economics and project financial management.
2. Apply cost planning, cost control, and cost optimization strategies throughout project lifecycles.
3. Develop skills in construction feasibility studies and investment appraisal techniques.
4. Analyze market trends, inflation impacts, and economic indicators affecting construction projects.
5. Master life cycle costing (LCC) and whole-life value assessment approaches.
6. Implement digital cost management tools, BIM-based estimating, and data analytics.
7. Improve decision-making using financial modeling and predictive cost forecasting.
8. Evaluate construction projects using return on investment (ROI) and value engineering methods.
9. Manage procurement economics, contract strategies, and supply chain optimization.
10. Apply risk management frameworks for cost and financial uncertainty.
11. Integrate green building economics and sustainable construction principles.
12. Develop strategies for global construction competitiveness and economic resilience.
13. Enhance professional capabilities in strategic project leadership and construction business intelligence.

Target Audience

1. Construction Managers and Project Managers
2. Quantity Surveyors and Cost Consultants
3. Civil Engineers and Structural Engineers
4. Architects and Design Professionals
5. Real Estate Developers and Investors
6. Procurement and Contract Management Professionals
7. Government Infrastructure and Public Works Officials
8. Construction Business Owners and Senior Executives

Course Modules

Module 1: Fundamentals of Construction Economics

- Principles of **construction economics and built environment markets**
- Role of economics in construction project success
- Construction industry supply and demand analysis
- Economic factors influencing construction costs
- Introduction to project cost intelligence

- **Case Study:** Analysis of a major infrastructure project affected by market fluctuations and economic changes.

Module 2: Construction Cost Planning and Estimation

- Advanced construction cost estimating techniques
- Preliminary cost planning and budgeting strategies
- Quantity-based cost analysis
- Cost benchmarking and performance measurement
- Digital estimating technologies
- **Case Study:** Cost optimization review of a commercial building project using modern estimating approaches.

Module 3: Financial Feasibility and Investment Analysis

- Construction investment decision-making
- Feasibility study preparation
- Cash flow forecasting techniques
- ROI and profitability analysis
- Financial risk evaluation
- **Case Study:** Evaluation of a real estate development project using financial feasibility models.

Module 4: Life Cycle Costing and Value Engineering

- Whole-life cost management
- Sustainable asset economics
- Value engineering methodologies
- Operational cost optimization
- Long-term investment strategies
- **Case Study:** Life cycle cost comparison between conventional and sustainable building solutions.

Module 5: Procurement Economics and Contract Strategies

- Construction procurement models
- Economic impact of contract selection
- Supply chain cost optimization
- Public-private partnership (PPP) economics
- Contract risk allocation strategies
- **Case Study:** Procurement strategy assessment for a large-scale infrastructure development.

Module 6: Digital Construction Economics and Data Analytics

- Construction 4.0 economic transformation
- BIM-based cost management
- Artificial Intelligence (AI) in cost forecasting
- Big data analytics for construction decisions
- Digital project controls
- **Case Study:** Using BIM technology to reduce cost overruns in a complex construction project.

Module 7: Risk Management and Economic Forecasting

- Construction economic risk identification

- Inflation and market volatility management
- Predictive cost forecasting
- Scenario planning techniques
- Resilience strategies for uncertain markets
- **Case Study:** Risk analysis of a construction project impacted by material price escalation.

Module 8: Sustainable Construction Economics and Future Trends

- Green construction economics
- Carbon cost assessment
- Circular economy in construction
- Smart cities and infrastructure economics
- Future trends in global construction markets
- **Case Study:** Economic evaluation of a net-zero energy building development.

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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

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
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