Advanced Quantity Surveying Training Course

Professional Development Training Course Outline

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

Course Introduction

Advanced Quantity Surveying has become one of the most critical disciplines in the modern construction industry, where cost optimisation, digital transformation, sustainable construction, contract administration, and risk management directly influence project success. As construction projects become increasingly complex, organisations require highly skilled quantity surveyors capable of delivering accurate cost estimation, lifecycle costing, Building Information Modelling (BIM) integration, procurement strategy, value engineering, contract management, and financial control throughout the project lifecycle. This comprehensive training programme equips participants with globally recognised best practices, practical methodologies, and digital tools required to improve project profitability, minimise financial risks, enhance productivity, and support strategic decision-making across infrastructure, commercial, industrial, and residential developments.

Advanced Quantity Surveying Training Course combines international standards, real-world case studies, practical workshops, digital quantity surveying technologies, and modern project management techniques to develop advanced competencies in cost planning, tender management, claims analysis, cash flow forecasting, earned value management, construction contracts, sustainability costing, and dispute resolution. Participants will gain practical experience using industry-leading methodologies while strengthening their expertise in cost governance, procurement excellence, BIM-enabled quantity surveying, data-driven construction analytics, and digital transformation, enabling them to deliver high-performance construction projects in today's competitive global market.

Programme Curriculum

Advanced Quantity Surveying Training Course

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Course Objectives

Upon completion of this training programme, participants will be able to:

1. Master Advanced Quantity Surveying techniques for complex construction projects.
2. Apply Building Information Modelling (BIM) for digital quantity take-off and cost estimation.
3. Develop accurate Cost Planning and Cost Management strategies.
4. Improve Construction Cost Estimation using international best practices.
5. Implement Value Engineering for project cost optimisation.
6. Manage Construction Contracts using FIDIC and international standards.
7. Perform advanced Tendering and Procurement Management.
8. Strengthen Risk Management and Cost Control methodologies.
9. Conduct effective Claims Management and Dispute Resolution.
10. Apply Lifecycle Costing (LCC) and Whole Life Cost Analysis.
11. Develop Cash Flow Forecasting and financial performance monitoring.
12. Integrate Digital Quantity Surveying, AI, Data Analytics, and Construction Technology into project delivery.
13. Enhance Project Governance, Sustainability, ESG Cost Management, and Commercial Excellence.

Target Audience

1. Quantity Surveyors
2. Senior Quantity Surveyors
3. Construction Project Managers
4. Civil Engineers
5. Cost Engineers and Cost Controllers
6. Contract Administrators and Commercial Managers
7. Procurement and Tendering Specialists

8. Consultants, Developers, and Infrastructure Professionals

Course Modules

Module 1: Advanced Quantity Surveying Principles

- Evolution of Quantity Surveying
- Global best practices
- Roles and responsibilities
- Commercial management
- Professional ethics
- **Case Study:** Cost management framework for a large commercial development.

Module 2: Advanced Cost Estimation & Quantity Take-Off

- Detailed quantity measurement
- Digital take-off techniques
- Cost databases
- Estimation methodologies
- Pricing strategies
- **Case Study:** High-rise building cost estimation using BIM.

Module 3: Building Information Modelling (BIM) for Quantity Surveyors

- BIM fundamentals
- 5D BIM
- Digital quantity extraction
- BIM collaboration
- Cost integration
- **Case Study:** BIM implementation in a hospital construction project.

Module 4: Cost Planning and Budget Control

- Cost planning stages
- Budget development
- Cost benchmarking
- Cost reporting
- Financial monitoring
- **Case Study:** Budget optimisation for an infrastructure project.

Module 5: Value Engineering and Cost Optimisation

- Value engineering principles
- Functional analysis
- Alternative materials
- Cost-benefit analysis
- Performance improvement
- **Case Study:** Value engineering for a highway expansion project.

Module 6: Procurement and Tender Management

- Procurement strategies

- Tender preparation
- Bid evaluation
- Contractor selection
- Contract award
- **Case Study:** International procurement strategy for airport construction.

Module 7: Construction Contract Administration

- FIDIC contracts
- NEC contracts
- Contract documentation
- Contract compliance
- Commercial administration
- **Case Study:** Managing contractual obligations in a power plant project.

Module 8: Claims Management and Dispute Resolution

- Extension of time claims
- Variation orders
- Delay analysis
- Arbitration
- Mediation techniques
- **Case Study:** Resolving delay claims in a metro rail project.

Module 9: Risk Management in Quantity Surveying

- Risk identification
- Risk assessment
- Cost risk analysis
- Contingency planning
- Risk mitigation
- **Case Study:** Financial risk assessment for a mixed-use development.

Module 10: Lifecycle Costing and Sustainability

- Whole-life costing
- Asset management
- ESG considerations
- Sustainable procurement
- Carbon cost analysis
- **Case Study:** Lifecycle costing of a green building project.

Module 11: Financial Management and Cash Flow Forecasting

- Cash flow planning
- Cost reporting
- Earned Value Management (EVM)
- Financial forecasting
- Project profitability
- **Case Study:** Cash flow optimisation for a large infrastructure programme.

Module 12: Digital Quantity Surveying Technologies

- AI in construction
- Construction analytics
- Cloud collaboration
- Digital dashboards
- Automation tools
- **Case Study:** AI-powered cost prediction for commercial buildings.

Module 13: Advanced Commercial Management

- Commercial strategy
- Cost governance
- KPI development
- Portfolio management
- Performance measurement
- **Case Study:** Commercial excellence in multinational construction projects.

Module 14: International Quantity Surveying Standards

- RICS standards
- ISO construction standards
- International measurement rules
- Compliance frameworks
- Global best practices
- **Case Study:** International cost management for cross-border infrastructure projects.

Module 15: Capstone Project and Industry Best Practices

- Integrated project simulation
- Team-based cost planning
- Contract administration exercise
- Risk and commercial analysis
- Final project presentation
- **Case Study:** End-to-end quantity surveying simulation for a smart city 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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

Register Online Now