Training Course on Construction Management for the Project Professional

Professional Development Training Course Outline

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

Course Introduction

Training Course on Construction Management for the Project Professional is meticulously designed to equip construction and project professionals with advanced skills and strategic insights for managing modern construction projects. With increasing demands for sustainability, cost-efficiency, and smart infrastructure, the construction industry now requires leaders who can navigate complex project phases with proficiency in risk management, quality control, and digital transformation. This course integrates trending tools like Building Information Modeling (BIM) and Lean Construction Techniques with a strong emphasis on project delivery, stakeholder communication, and real-world applications.

This course is tailored to promote excellence in project scheduling, resource allocation, contract management, and safety compliance. Through 15 hands-on modules, interactive case studies, and real-time construction scenarios, learners will enhance their ability to deliver projects on time, within budget, and aligned with regulatory standards. The training adopts a practical, industry-aligned methodology that ensures every concept is relevant and applicable to dynamic site conditions.

Programme Curriculum

Training Course on Construction Management for the Project Professional

Introduction

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Course Objectives

1. Master construction project lifecycle and phase-specific deliverables.
2. Implement cost control strategies and budget forecasting tools.
3. Apply Lean construction and Agile project management techniques.
4. Analyze and mitigate project risk factors using predictive analytics.
5. Develop expertise in contract law, claims, and dispute resolution.
6. Optimize resource allocation and workforce planning.
7. Execute effective construction scheduling using MS Project & Primavera.
8. Utilize BIM (Building Information Modeling) for planning and execution.
9. Integrate green building practices and sustainable construction methods.
10. Lead construction teams through enhanced communication and collaboration.
11. Ensure compliance with construction safety and environmental regulations.
12. Drive digital transformation in construction processes.
13. Interpret and prepare construction documentation and reporting accurately.

Target Audience

1. Project Managers in Construction
2. Civil Engineers and Site Engineers
3. Architects and Urban Planners
4. Quantity Surveyors
5. Construction Consultants
6. Building Contractors and Subcontractors
7. Infrastructure Development Officers
8. Facilities and Real Estate Managers

Course Duration: 10 days

Course Modules

Module 1: Fundamentals of Construction Project Management

- Introduction to construction project types and delivery methods
- Stakeholders in construction projects
- Project lifecycle and critical milestones
- Scope definition and project charter development
- Key performance indicators (KPIs) in construction
- **Case Study: Residential Building Project Lifecycle Analysis**

Module 2: Project Planning and Scheduling Techniques

- Work breakdown structure (WBS) development
- Critical Path Method (CPM) and Gantt charts
- Primavera P6 and Microsoft Project applications
- Scheduling risk analysis and float management
- Milestone tracking and deadline forecasting
- **Case Study: Airport Terminal Construction Scheduling Plan**

Module 3: Budgeting, Cost Estimation, and Control

- Cost estimation techniques and accuracy levels
- Budget creation and approval workflow
- Earned Value Management (EVM)
- Cost monitoring and control dashboards
- Dealing with cost overruns and contingency planning
- **Case Study: Hospital Construction Budget Overrun**

Module 4: Construction Contracts and Legal Framework

- Types of contracts: FIDIC, EPC, Design-Build
- Understanding contract clauses and obligations
- Construction claims and delay analysis
- Arbitration and dispute resolution methods
- Contract termination and breach implications
- **Case Study: Road Infrastructure Contract Dispute**

Module 5: Resource and Material Management

- Procurement planning and inventory control
- Equipment and labor optimization
- Supply chain integration
- Material tracking and wastage reduction
- Forecasting shortages and delivery delays
- **Case Study: Material Procurement Delays in High-Rise Project**

Module 6: Quality Management in Construction

- Quality assurance vs. quality control
- ISO standards in construction
- Site inspection protocols
- Non-conformance reporting (NCR) systems
- Continuous improvement practices
- **Case Study: Quality Compliance in Bridge Construction**

Module 7: Risk Management and Project Uncertainties

- Risk identification and qualitative analysis
- Quantitative risk assessment tools
- Risk register development
- Response planning: avoidance, mitigation, acceptance
- Monitoring and controlling project risks
- **Case Study: Flood Risk Management in a Tunnel Project**

Module 8: Safety and Environmental Management

- OSHA standards and local safety laws
- Site safety audits and toolbox talks
- Incident reporting and analysis
- Construction waste management
- Environmental impact assessments
- **Case Study: Safety Violation at a Commercial Tower Site**

Module 9: Digital Tools and Innovation in Construction

- BIM 360, Revit, and AutoCAD in project workflows
- Drone surveying and photogrammetry

- AI and IoT applications on construction sites
- Smart project documentation and cloud platforms
- Cybersecurity in construction data
- **Case Study: BIM Adoption in a Mega Mall Project**

Module 10: Sustainable Construction Practices

- LEED certification requirements
- Low-carbon materials and green supply chains
- Water and energy efficiency strategies
- Lifecycle assessment of construction materials
- Climate resilience in design
- **Case Study: LEED Platinum-Certified School Campus**

Module 11: Procurement and Vendor Management

- Vendor prequalification and bid evaluation
- RFIs, RFQs, and tender documentation
- Contract award and vendor onboarding
- Performance-based contracting
- Strategic sourcing strategies
- **Case Study: Procurement Challenges in Government Housing Scheme**

Module 12: Team Leadership and Communication

- Role of leadership in construction projects
- Conflict resolution strategies
- Daily huddles, meetings, and progress updates
- Cross-functional team collaboration
- Stakeholder engagement plans
- **Case Study: Leadership Issues in a Mixed-Use Project**

Module 13: Site Execution and Construction Techniques

- On-site construction methods and technologies
- Supervisory control and reporting
- Construction site layout planning
- Temporary works management
- Monitoring subcontractor activities
- **Case Study: Execution Challenges in Rail Infrastructure**

Module 14: Construction Documentation and Reporting

- Daily logs, progress reports, and punch lists
- Drawing management and as-built documentation
- Change order documentation
- Inspection reports and QA forms
- Final project close-out reports
- **Case Study: Incomplete Documentation in Road Expansion Project**

Module 15: Project Handover and Post-Construction Management

- Snagging, commissioning, and defect rectification
- Maintenance manuals and warranties
- Final stakeholder review
- Lessons learned and knowledge management

- Post-occupancy evaluation
- **Case Study: Delayed Handover of a Tech Park Campus**

Training Methodology

- Instructor-led sessions and live virtual lectures
- Group activities, role-playing, and scenario-based simulations
- Real-world case studies and peer reviews
- Hands-on exercises with project management tools
- Online resources, toolkits, and downloadable templates

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

Start Date	End Date	Location	Price
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:

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