

# Agile Construction Management Training Course

## Professional Development Training Course Outline

|          |                           |               |                         |
|----------|---------------------------|---------------|-------------------------|
| Category | Architectural Engineering | Duration      | 5 Days                  |
| Base Fee | \$1,500 USD               | Delivery Mode | Online / On-site Hybrid |

### Course Introduction

Agile Construction Management is a modern, adaptive approach that integrates Agile methodologies, Lean principles, digital collaboration, and real-time project controls to transform how construction projects are planned and executed. Unlike traditional waterfall models, this approach emphasizes iterative planning, continuous improvement, stakeholder collaboration, and rapid decision-making, enabling teams to respond quickly to changes, reduce waste, and improve project outcomes. With the rise of BIM (Building Information Modeling), AI-driven analytics, and smart construction technologies, Agile Construction is becoming a critical competency for forward-thinking organizations.

Agile Construction Management Training Course equips professionals with cutting-edge tools, frameworks, and strategies to manage complex construction projects in a fast-evolving environment. Participants will gain hands-on experience in Scrum for construction, Lean scheduling, risk mitigation, digital project management platforms, and data-driven decision-making. By blending theory with real-world applications, the program prepares learners to deliver projects faster, smarter, and more sustainably, while enhancing productivity, collaboration, and client satisfaction.

### Programme Curriculum

#### Agile Construction Management Training Course

##### Introduction

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### **Course Duration**

5 days

### **Course Objectives**

1. Understand Agile Frameworks (Scrum, Kanban, Lean Construction) in project delivery
2. Apply Digital Transformation & Smart Construction Technologies
3. Enhance Collaborative Project Delivery (IPD) strategies
4. Implement BIM Integration & Digital Twin Concepts
5. Optimize workflows using Lean Six Sigma & Waste Reduction
6. Strengthen Risk Management & Predictive Analytics
7. Improve Stakeholder Engagement & Communication Tools
8. Utilize AI & Data-Driven Decision Making in construction
9. Master Agile Scheduling & Sprint Planning Techniques
10. Boost Sustainability & Green Construction Practices
11. Develop Cost Optimization & Value Engineering Skills
12. Integrate Cloud-Based Project Management Platforms
13. Foster Continuous Improvement & Innovation Culture

### **Target Audience**

1. Construction Project Managers
2. Civil Engineers & Site Engineers
3. Architects & Design Consultants
4. Project Planners & Schedulers
5. Contractors & Subcontractors
6. Real Estate Developers
7. Infrastructure & EPC Professionals
8. Operations & Facility Managers

### **Course Modules**

#### **Module 1: Introduction to Agile Construction**

- Agile vs Traditional Project Management
- Principles of Agile & Lean Construction
- Industry trends & digital disruption
- Benefits of iterative delivery
- Agile roles in construction
- **Case Study:** Transition from waterfall to Agile in a mid-size infrastructure project

## Module 2: Agile Frameworks in Construction

- Scrum, Kanban, and Hybrid models
- Sprint planning & backlog management
- Daily stand-ups for site teams
- Agile governance in projects
- Performance tracking metrics
- **Case Study:** Scrum implementation in commercial building project

## Module 3: Lean Construction & Waste Reduction

- Lean principles & value stream mapping
- Identifying and eliminating waste
- Just-in-Time material management
- Continuous improvement cycles
- Productivity optimization
- **Case Study:** Lean adoption reducing project delays by 20%

## Module 4: Digital Tools & BIM Integration

- BIM fundamentals & collaboration
- Digital twins in construction
- Cloud-based project platforms
- Real-time data sharing
- Visualization & simulation tools
- **Case Study:** BIM-enabled coordination in high-rise development

## Module 5: Agile Planning & Scheduling

- Rolling wave planning
- Sprint-based scheduling
- Critical path vs Agile scheduling
- Resource allocation strategies
- Time optimization techniques
- **Case Study:** Agile scheduling improving delivery timelines

## Module 6: Risk Management & Decision Making

- Predictive analytics for risk
- Agile risk mitigation strategies
- Scenario planning & forecasting
- Data-driven decision frameworks
- Crisis response planning
- **Case Study:** Risk reduction using analytics in infrastructure project

## Module 7: Stakeholder Collaboration & Communication

- Integrated Project Delivery (IPD)
- Communication frameworks
- Conflict resolution strategies
- Client-centric project management
- Collaboration tools & platforms

- **Case Study:** Stakeholder alignment improving project outcomes

## **Module 8: Sustainability & Future Trends**

- Green construction practices
- ESG & sustainability integration
- Smart cities & IoT in construction
- Automation & robotics
- Future of Agile Construction
- **Case Study:** Sustainable Agile project reducing carbon footprint

## **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](mailto: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   |
|-------------|-------------|----------|---------|
| 21 Sep 2026 | 25 Sep 2026 | Online   | \$1,000 |
| 21 Sep 2026 | 25 Sep 2026 | Physical | \$1,500 |
| 21 Sep 2026 | 25 Sep 2026 | Physical | \$0     |
| 21 Sep 2026 | 25 Sep 2026 | Physical | \$0     |
| 21 Sep 2026 | 25 Sep 2026 | Physical | \$0     |
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Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: [info@fineskilltrainingcenter.com](mailto:info@fineskilltrainingcenter.com) | Website: [www.fineskilltrainingcenter.com](http://www.fineskilltrainingcenter.com)