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

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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 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