Site Planning & Logistics 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

Site Planning & Logistics Training Course is designed to equip professionals with advanced knowledge in construction site layout optimization, logistics coordination, material flow planning, and lean construction techniques. Participants will gain practical insights into how strategic site planning reduces delays, minimizes costs, enhances safety, and improves overall project productivity using globally accepted project management and construction logistics best practices.

In today’s fast-paced construction environment, poor site planning can lead to significant inefficiencies, resource wastage, and safety risks. This course integrates digital construction tools, BIM-based logistics planning, supply chain optimization, and real-time site coordination strategies to prepare learners for complex project environments. With a strong focus on sustainability, risk management, and smart construction technologies, participants will be able to design and manage high-performance construction sites aligned with international standards.

Programme Curriculum

Site Planning & Logistics Training Course

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Course Duration

5 days

Course Objectives

1. Master advanced site planning and layout optimization techniques
2. Apply construction logistics management principles effectively
3. Improve material handling and storage efficiency on-site
4. Implement lean construction and waste reduction strategies
5. Enhance project scheduling and sequencing coordination
6. Utilize BIM (Building Information Modeling) for site logistics
7. Strengthen supply chain integration in construction projects
8. Develop risk management strategies for site operations
9. Improve equipment and labor productivity planning
10. Optimize transportation and access route design on site
11. Apply health, safety, and environmental (HSE) planning standards
12. Integrate digital construction technologies and smart tools
13. Strengthen decision-making in complex site environments

Target Audience

1. Construction Project Managers
2. Site Engineers and Civil Engineers
3. Logistics and Supply Chain Managers
4. Quantity Surveyors
5. Infrastructure Developers
6. Construction Planners and Schedulers
7. Contractors and Subcontractors
8. Engineering Students and Graduates

Course Modules

Module 1: Fundamentals of Site Planning

- Principles of site layout design
- Site organization and zoning techniques
- Workflow and material flow basics
- Temporary facilities planning
- Introduction to construction logistics
- **Case Study:** Residential housing project site layout optimization to reduce material movement time by 30%.

Module 2: Construction Logistics Management

- Logistics planning frameworks
- On-site material handling systems

- Delivery scheduling coordination
- Storage and inventory control
- Equipment allocation strategies
- **Case Study:** High-rise building logistics coordination to eliminate site congestion and delays.

Module 3: Lean Construction & Waste Reduction

- Lean construction principles
- Waste identification and elimination
- Just-in-time delivery systems
- Continuous improvement processes
- Value stream mapping in construction
- **Case Study:** Infrastructure project reducing material waste by 25% through lean practices.

Module 4: BIM for Site Planning

- Introduction to BIM in logistics
- 4D and 5D construction simulation
- Digital site visualization tools
- Clash detection and planning
- Model-based decision making
- **Case Study:** Smart hospital construction using BIM-based logistics sequencing.

Module 5: Site Access & Transportation Planning

- Site access route design
- Traffic flow management
- Heavy equipment movement planning
- Loading/unloading zone optimization
- External logistics coordination
- **Case Study:** Industrial plant project improving delivery efficiency by redesigning access roads.

Module 6: Safety & Environmental Site Planning

- HSE integration in site planning
- Hazard identification and mitigation
- Environmental impact reduction
- Safety zoning and signage planning
- Compliance with global standards
- **Case Study:** Mega construction site reducing safety incidents by 40% through improved planning.

Module 7: Digital Construction & Smart Tools

- Use of drones in site monitoring
- IoT in construction logistics
- AI-based planning tools
- Real-time tracking systems
- Mobile construction management apps
- **Case Study:** Smart infrastructure project using IoT for real-time material tracking.

Module 8: Integrated Project Site Coordination

- Stakeholder coordination techniques
- Multi-contractor site integration
- Communication planning systems
- Conflict resolution on-site
- Performance monitoring systems
- **Case Study:** Airport expansion project coordinating 15 contractors using integrated planning systems.

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

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