Construction Scheduling Techniques 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

Construction Scheduling Techniques Training Course is designed to equip professionals with advanced skills in project planning, construction time management, critical path method (CPM), Lean construction scheduling, and digital project controls. In today's fast-paced construction environment, effective scheduling is essential for minimizing delays, reducing cost overruns, and ensuring successful project delivery. This training integrates modern tools such as Primavera P6, Microsoft Project, BIM scheduling integration, and Agile construction planning techniques to enhance productivity and decision-making accuracy.

As construction projects become more complex, the demand for skilled planners and schedulers continues to rise globally. This course emphasizes real-time project tracking, resource leveling, delay analysis, risk-based scheduling, and Earned Value Management (EVM). Participants will gain hands-on experience in creating optimized construction schedules that align with global standards, contractor requirements, and stakeholder expectations, ensuring efficient project execution from initiation to completion.

Programme Curriculum

Construction Scheduling Techniques Training Course

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Course Objectives

1. Master Critical Path Method (CPM) scheduling techniques for construction projects
2. Apply Primavera P6 and MS Project for advanced scheduling control
3. Develop expertise in construction delay analysis and claims management
4. Implement Lean construction scheduling and workflow optimization
5. Understand resource allocation and leveling strategies
6. Utilize BIM-integrated scheduling (4D construction simulation)
7. Apply Earned Value Management (EVM) in project tracking
8. Enhance skills in risk-based construction scheduling techniques
9. Create baseline schedules and progress tracking systems
10. Improve project time-cost optimization strategies
11. Analyze and mitigate construction project delays effectively
12. Strengthen decision-making using data-driven project controls
13. Align scheduling practices with global construction management standards (PMI, NEC, FIDIC)

Target Audience

1. Construction Project Managers
2. Planning and Scheduling Engineers
3. Civil Engineers and Site Engineers
4. Quantity Surveyors
5. Construction Consultants
6. Contract Managers and Claims Analysts
7. Infrastructure Development Professionals
8. Project Control Specialists

Course Modules

Module 1: Fundamentals of Construction Scheduling

- Introduction to construction project lifecycle
- Importance of scheduling in project success
- Overview of CPM, PERT, and Gantt charts
- Work breakdown structure (WBS) development
- Case Study: Residential building schedule breakdown

Module 2: Critical Path Method (CPM) Mastery

- Identifying critical and non-critical activities
- Float calculation techniques
- Network diagram development

- Schedule compression techniques (crashing & fast tracking)
- Case Study: Highway construction delay recovery plan

Module 3: Primavera P6 Advanced Scheduling

- Project setup and baseline creation
- Activity coding and WBS structuring
- Resource assignment and leveling
- Progress tracking and updates
- Case Study: Commercial tower project scheduling using P6

Module 4: Microsoft Project for Construction Planning

- Project structuring in MS Project
- Task dependencies and milestones
- Resource management tools
- Reporting and dashboard creation
- Case Study: School construction project planning

Module 5: Lean Construction & Workflow Optimization

- Lean principles in construction management
- Last Planner System (LPS)
- Waste reduction strategies
- Just-in-Time (JIT) scheduling
- Case Study: Hospital project workflow optimization

Module 6: Delay Analysis & Claims Management

- Types of construction delays
- Forensic schedule analysis techniques
- Impact vs. disruption analysis
- Extension of time (EOT) claims preparation
- Case Study: Infrastructure project delay dispute resolution

Module 7: BIM & 4D Construction Scheduling

- Introduction to BIM integration in scheduling
- 4D simulation techniques
- Clash detection and sequencing
- Visualization of construction timelines
- Case Study: Smart city development 4D simulation

Module 8: Earned Value Management (EVM) & Risk Scheduling

- Cost vs. schedule performance analysis
- CPI and SPI calculations
- Risk identification in scheduling
- Predictive scheduling analytics
- Case Study: Energy plant construction performance tracking

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

Start Date	End Date	Location	Price
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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