# Construction Project Scheduling Using Primavera P6 Training Course

Professional Development Training Course Outline

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|---|---|---|---|
| **Category** | Construction Institute | **Duration** | 5 Days |
| **Base Fee** | $1,500 USD | **Delivery Mode** | Online / On-site Hybrid |

## Course Introduction

Construction Project Scheduling Using Primavera P6 Training Course is designed to equip construction professionals with advanced skills in project planning, scheduling, cost control, resource optimization, and project performance management using Oracle Primavera P6 Professional Project Management. In today's competitive construction environment, organizations require professionals who can manage complex projects through digital project controls, predictive scheduling, earned value management (EVM), risk-based planning, and data-driven decision-making. This training provides practical expertise in developing baseline schedules, monitoring progress, managing resources, analyzing delays, and improving project delivery efficiency.

The course integrates real-world construction scenarios, industry best practices, and hands-on Primavera P6 applications to develop job-ready scheduling competencies. Participants will learn how to create integrated project schedules, perform critical path analysis (CPM), manage project risks, generate progress reports, and implement effective project controls strategies. Through practical exercises and case studies from building construction, infrastructure, oil & gas, EPC, and mega construction projects, learners will gain the confidence to manage complex project timelines and achieve successful project outcomes.

## Programme Curriculum

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**Course Duration**

5 days

**Course Objectives**

By the end of this training, participants will be able to:

1. Develop professional construction project schedules using Primavera P6.
2. Apply advanced project planning and scheduling techniques based on industry standards.
3. Understand Critical Path Method (CPM) and identify schedule drivers.
4. Create and manage Work Breakdown Structures (WBS) for complex projects.
5. Perform resource loading and resource optimization for construction activities.
6. Implement baseline management and schedule performance tracking.
7. Apply Earned Value Management (EVM) for project progress measurement.
8. Conduct delay analysis and schedule recovery planning.
9. Manage construction risks using risk-based scheduling approaches.
10. Generate professional project dashboards and progress reports.
11. Improve decision-making through data analytics and project forecasting.
12. Integrate cost, resource, and time management controls.
13. Apply Primavera P6 skills to improve project delivery, productivity, and profitability.

**Target Audience**

1. Construction Project Managers
2. Planning Engineers and Project Controls Engineers
3. Primavera P6 Schedulers
4. Civil and Structural Engineers
5. Quantity Surveyors and Cost Engineers
6. EPC Project Professionals
7. Contractors and Construction Consultants
8. Project Management Professionals (PMP® Candidates)

**Course Modules**

**Module 1: Fundamentals of Construction Project Planning & Primavera P6**

- Introduction to modern construction project management and digital scheduling workflows
- Overview of Primavera P6 interface, databases, layouts, and project environments
- Understanding project lifecycle, milestones, activities, and constraints
- Developing effective Work Breakdown Structure (WBS) strategies

- Creating project calendars, activity codes, and organizational structures
- Case Study: Development of a Primavera P6 schedule framework for a commercial building construction project.

**Module 2: Creating Construction Project Schedules in Primavera P6**

- Creating new projects and defining project parameters
- Developing activity networks using construction sequencing methods
- Establishing activity relationships
- Assigning durations, constraints, milestones, and project logic
- Applying industry-standard scheduling practices
- **Case Study:** Planning and scheduling a high-rise residential construction project from design to handover.

**Module 3: Advanced Scheduling Techniques & Critical Path Management**

- Understanding **Critical Path Method (CPM)** and float analysis
- Identifying schedule risks and critical activities
- Performing forward and backward scheduling calculations
- Managing constraints and improving schedule reliability
- Developing optimized project execution strategies
- **Case Study:** Critical path analysis for a highway construction project experiencing timeline challenges.

**Module 4: Resource Management & Cost Loading**

- Creating labor, equipment, and material resources
- Resource allocation and leveling techniques
- Managing resource availability and productivity rates
- Integrating cost information into project schedules
- Improving resource utilization through forecasting
- **Case Study:** Resource optimization for an EPC industrial construction project.

**Module 5: Baseline Management, Progress Monitoring & Reporting**

- Creating and maintaining project baselines
- Updating project schedules with actual progress
- Measuring schedule performance indicators
- Developing progress curves and project dashboards
- Preparing professional client and management reports
- **Case Study:** Monthly progress update and reporting system for a large infrastructure project.

**Module 6: Earned Value Management (EVM) & Project Performance Analysis**

- Understanding earned value concepts and performance indicators
- Monitoring Schedule Performance Index (SPI) and Cost Performance Index (CPI)
- Forecasting project completion dates and final costs
- Identifying deviations and corrective actions
- Using Primavera P6 analytics for project control
- **Case Study:** Performance analysis of a delayed airport expansion project using EVM techniques.

**Module 7: Delay Analysis, Risk Management & Schedule Recovery**

- Identifying construction delays and schedule impacts
- Performing delay analysis techniques
- Developing recovery schedules and acceleration plans
- Applying risk management principles in scheduling
- Managing change orders and extension-of-time claims
- **Case Study:** Recovery planning for a delayed commercial development project.

**Module 8: Advanced Primavera P6 Applications & Industry Best Practices**

- Advanced scheduling techniques for mega projects
- Integrating Primavera P6 with project controls systems
- Developing executive dashboards and reporting workflows
- Applying digital transformation strategies in construction planning
- Preparing industry-ready project schedules
- **Case Study:** Complete Primavera P6 scheduling solution for a major infrastructure development project.

## 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