

Construction Project Planning & Scheduling Using Primavera P6

1. TARGET AUDIENCE

This course is designed for civil engineers, planning engineers, project engineers, construction professionals, and fresh graduates who want to develop project planning and scheduling skills using Primavera P6.

Prerequisites:

- Basic understanding of construction projects and BOQ
- Knowledge of construction activities and project workflows

Ideal Learners:

- Aspiring Planning Engineers
- Project Coordinators and Site Engineers
- Construction Professionals seeking career growth
- Students preparing for planning and project management roles

2. COURSE OBJECTIVE

Learn to plan, schedule, monitor, and control construction projects using Primavera P6.

By the end of this course, you will be able to:

- Create projects and WBS structures
- Develop project schedules using CPM
- Perform resource and cost loading
- Track project progress and baselines
- Generate reports, S-curves, and project documentation

3. COURSE OUTLINE

This course consists of **40 hours** of theory and practical training divided into **8 modules**. Each module includes hands-on exercises to build practical project planning skills using Primavera P6.

TABLE OF CONTENTS

Module 1: Introduction & Setup

- Overview of Primavera P6 for Civil Engineers
- Installation & User Interface walkthrough
- Creating Enterprise Project Structure (EPS)
- Project creation basics

Module 2: Work Breakdown Structure (WBS) Development

- Traditional & advanced WBS creation methods
- High-level WBS explanation
- Linking BOQ to activity lists
- Importing BOQ activities into Primavera

Module 3: Activity & Calendar Management

- Creating activities manually & via Excel import
- Assigning durations and calendars
- Understanding activity relationships
- Construction activity breakdown for real projects

Module 4: Resource Planning & Cost Loading

- Resource creation (manual + Excel import)
- Resource allocation to activities
- Cost loading techniques for manpower, machinery, and materials
- Resource usage spreadsheets & reporting

Module 5: Project Scheduling & Critical Path Method (CPM)

- Gantt chart development
- Critical Path Method application
- Assigning weightages to activities
- Linking activities with milestones

Module 6: Progress Tracking & Baselines

- Assigning baselines
- Updating actual progress (Part 1 & Part 2)
- Earned Value Management (EVM) concepts
- Creating and evaluating S-curves

Module 7: Reporting & Documentation

- Printing layouts & professional reports
- Weekly schedule updates
- Preparing schedule logs & narrative reports
- Client-ready documentation

Module 8: Case Studies – Real Civil Projects

- High-rise building project planning
- Resource loading and cost reporting for case study
- End-to-end project scheduling workflow
- Hands-on exercises with live project data

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