MERCURY

Primavera P6 Professional Fundamentals Training Course

7 – 11 March 2027
Cairo (Egypt)



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Ref: 32_1082158 **Date:** 7 – 11 March 2027 **Location:** Cairo (Egypt) **Fees:** 3500 Euro

The Primavera P6 Professional Fundamentals Training Course is a one-week course for project planners, project controls specialists, and site engineers managing baseline development, critical path analysis, and project schedule progress updates. Working through enterprise configurations, activity network logic, and earned value tracking, you complete an operational Primavera P6 Project Schedule Package. Mercury Training Center delivers this course to help you build reliable, resource-loaded schedules in enterprise environments.

About This Course

Fragmented activity logic, poorly defined work breakdown structures, and unverified critical paths cause major project delays and contractual disputes across capital programs. To follow this course, you must already understand basic project lifecycle phases, read engineering scopes of work, and track project milestones. Through hands-on exercises, you practice configuring project structures, scheduling logic, and tracking schedule baselines.

Who It Is For

- Professionals responsible for building work breakdown structures, project calendars, and network logic in capital programs
- Professionals responsible for assigning resource profiles, budgeting project costs, and calculating critical paths in enterprise software
- Professionals responsible for updating progress, analyzing schedule variance, and generating earned value reports
- Professionals responsible for validating contractor schedule submissions against schedule classification criteria and specifications

This course is not for project directors seeking high-level portfolio investment governance without software execution, nor is it for database administrators requiring enterprise server installation and administrative database tuning courses.

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Competencies You Will Build

- Enterprise Structure Configuration: Establishing organizational breakdown structures, enterprise project structures, and project-specific calendars.
- Network Logic Development: Connecting predecessor and successor relationships using standard precedence diagramming methods and lead-lag controls.
- Critical Path Calculation: Executing forward and backward pass schedule network calculations to resolve total float and driving paths.
- Resource and Expense Loading: Assigning labor units, non-labor equipment, and material costs to activities for earned value monitoring.
- Baseline Schedule Governance: Creating, converting, and maintaining project baselines in compliance with schedule classification practices.
- Schedule Update Analysis: Recording actual progress, physical percent complete, and analyzing variances against project control baselines.

What You Will Be Able to Do

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

- From project work breakdown structures and task lists, configure project hierarchies and activity dictionaries in Primavera P6 Professional.
- Given engineering drawings and procurement sequences, link predecessor and successor activities using finish-to-start, start-to-start, and finish-to-finish logic.
- Using project calendars and resource allocation libraries, assign labor quantities, equipment usage, and activity expenses to calculate early and late dates.
- From scope definition documents and baseline criteria, evaluate schedule maturity using AACE Recommended Practice No. 27R-03 schedule classifications.
- Using the critical path method, calculate project completion dates, total float margins, and free float constraints.
- From site progress logs and inspection reports, execute monthly schedule updates and extract earned value S-curves to quantify project variance.

Course Content

Day 1: Enterprise Setup and Work Breakdown Structures

- Enterprise Project Structure and Organizational Breakdown Structure Alignment
- Calendar Configuration, Working Hours, and Activity Type Assignment
- Work Breakdown Structure Development and Deliverable Hierarchy Mapping
- Activity Addition, Milestones, and Activity Codes Categorization
- Schedule Planning Guidelines Following AACE International Total Cost Management Framework Section 7.2

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Day 2: Network Logic and Duration Calculations

- Precedence Diagramming Method and Relationship Types Application
- Lead, Lag, and Open-End Logic Elimination in Project Networks
- Duration Estimating and Schedule Development Under AACE Recommended Practice No. 91R-16
- Critical Path Method Scheduling and Float Calculations
- Activity Constraint Application and Mandatory Date Diagnostics

Day 3: Resource Loading and Cost Assignment

- Resource Dictionary Setup for Labor, Non-Labor, and Material Categories
- Resource Assignment, Allocation Spreads, and Driving Resource Parameters
- Direct and Indirect Activity Expense Configuration in Schedule Networks
- Resource Leveling Methods and Resolution of Resource Over-Allocation
- Schedule Quality Verification and Compliance Review

Day 4: Baselines, Progress Updates, and Performance Tracking

- Project Baseline Creation, Assignment, and Maintenance Procedures
- Data Date Advancement, Actual Progress Entry, and Remaining Duration Calculation
- Physical Percent Complete and Earned Value Measurement Techniques
- Variance Analysis, Critical Path Slippage, and Schedule Health Diagnostics
- Developing Scheduling Submittal Criteria Aligned with AACE Recommended Practice No. 26R-21

Day 5: Schedule Control Practice and Package Finalization

- Exercise on Enterprise Data Hierarchy and WBS Modeling for an Industrial Facility
- Exercise on Critical Path Calculation and Schedule Logic Correction for an Infrastructure Project
- Exercise on Resource Leveling and Budget S-Curve Generation for a Commercial Build
- Exercise on Progress Updating, Float Variance Analysis, and Look-Ahead Reporting
- Finalization of the Primavera P6 Project Schedule Package

Case Studies and Exercises

These suggested activities provide practical application of enterprise planning workflows across diverse industrial sectors:

- Case study: A petrochemical refining plant where you model construction work packages, identify negative total float, and revise driving logic to recover the critical path.
- Case study: A power generation facility where you allocate turbine installation crews and heavy lifting equipment to resolve resource over-allocations without altering the contractual milestone.
- Exercise: An urban transport infrastructure program where you enter monthly site progress, advance the data date, and assess earned value performance metrics.
- Exercise: A multi-story commercial complex where you configure work breakdown structures, assign expense accounts, and establish a control baseline.

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What You Take Back

The Primavera P6 Project Schedule Package gives you operational scheduling templates and structured procedures for your first month back on the job. You will use it to configure enterprise projects, establish sound scheduling logic, track physical progress against assigned baselines, and generate standardized look-ahead reports for project stakeholders.

- Primavera P6 enterprise project layout and activity code structure file
- Schedule health validation and critical path calculation checklist
- Resource allocation and earned value S-curve tracking worksheet
- Schedule update, baseline maintenance, and look-ahead reporting template

Quick Answers FAQ

What background is required before attending the Primavera P6 Professional Fundamentals Training Course?

You need a foundational understanding of project delivery stages, the ability to interpret scope packages, and familiarity with project deliverables. Experience reading Gantt charts or participating in scheduling meetings ensures you can follow software navigation and network logic development immediately.

How does the Primavera P6 Professional Fundamentals Training Course differ from general project management courses?

General project management courses address broad organizational behavior, governance, and business cases. The Primavera P6 Professional Fundamentals Training Course concentrates specifically on building hands-on scheduling capability, calculating critical paths, allocating resources, and tracking earned value baselines within enterprise scheduling software.

Why is critical path method scheduling essential in enterprise capital projects?

Critical path method scheduling identifies the specific sequence of driving activities that determines the overall project completion date. It calculates total float and reveals operational bottlenecks, allowing project teams to allocate resources effectively and prevent contractual schedule delays.

What work product do you take back from the Primavera P6 Professional Fundamentals Training Course?

You take back the Primavera P6 Project Schedule Package, which contains enterprise layouts, schedule review checklists, resource tracking templates, and update procedures that you can deploy immediately to build and control project schedules in your organization.

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For Your Manager

The team member will be able to construct well-sequenced project schedules, calculate critical paths, load resource budgets, and maintain approved baselines in enterprise software. They return with the completed Primavera P6 Project Schedule Package, which is deployed immediately on active tenders and capital projects to improve schedule integrity, manage progress updates, and mitigate delay risks.