

Course Outline

Basic Project Management with Oracle Primavera P6 (P6 #102)

Course Description

This course provides a comprehensive foundation in project management principles using the latest version of **Oracle Primavera P6 Professional**. Participants learn how to plan, schedule, resource, optimize, baseline, and control projects throughout the full project life cycle using industry best practices and hands-on Primavera P6 functionality.

Course Duration

- **Total Duration: 3 Days (24 Hours)**
- **Delivery Mode:** Instructor-led (classroom or virtual) with hands-on exercises

Target Audience

- Project Engineers & Project Managers
- Planners & Schedulers
- Construction & Engineering Professionals
- PMO Analysts and Project Controls Staff

Prerequisites

- Basic understanding of project concepts
- Familiarity with Windows-based applications

Detailed Course Modules

Module 1: Project Management Fundamentals

Lesson 1 – Project Management Life Cycle

- Project management definition and constraints
- Five process groups:
 - Initiating
 - Planning
 - Executing
 - Controlling
 - Closing
- Role of scheduling tools in each phase

Module 2: Primavera P6 Data & System Architecture

Lesson 2 – Understanding Data in P6

- P6 EPPM vs P6 Professional
 - Enterprise Project Structure (EPS)
 - Organizational Breakdown Structure (OBS)
 - Enterprise data vs Project-specific data
 - Calendars, activity codes, and reports
-

Module 3: Navigation & User Interface

Lesson 3 – Overview and Navigation

- Logging in and project access modes
 - Navigation across windows and tabs
 - Toolbars and menus
 - Layout concepts and customization
 - Saving and sharing layouts
-

Module 4: Project Setup

Lesson 4 – Creating a Project

- Project creation methods:
 - New Project Wizard
 - Importing projects
 - Copying projects
 - Defining:
 - Project ID & Name
 - EPS placement
 - Responsible Manager
 - Start and finish dates
 - Project Details tabs and defaults
-

Module 5: Project Scope Breakdown

Lesson 5 – Creating a Work Breakdown Structure (WBS)

- WBS concepts and hierarchy
- Creating and organizing WBS elements
- Assigning Responsible Managers

- Restructuring WBS
 - WBS best practices for control
-

Module 6: Activity Definition

Lesson 6 – Adding Activities

- Activity components and attributes
 - Activity types:
 - Task Dependent
 - Resource Dependent
 - Milestones
 - Level of Effort
 - WBS Summary
 - Adding activities
 - Activity notebooks and steps
 - Activity codes
-

Module 7: Logic & Dependencies

Lesson 7 – Creating Relationships

- Network Logic Diagrams
 - Precedence Diagramming Method (PDM)
 - Relationship types:
 - Finish-to-Start
 - Start-to-Start
 - Finish-to-Finish
 - Start-to-Finish
 - Lag and lead
 - Relationships via network and Activity Details
-

Module 8: Scheduling & Critical Path

Lesson 8 – Scheduling

- Critical Path Method (CPM)
- Forward and backward pass calculations
- Data date concepts
- Float analysis
- Open ends and loops
- Scheduling log interpretation

Module 9: Constraints

Lesson 9 – Assigning Constraints

- Start and Finish constraints
 - Mandatory and optional constraints
 - Project-level vs activity-level constraints
 - Impact of constraints on float
 - Documenting constraints
-

Module 10: Project Documents

Lesson 10 – Managing Work Products and Documents

- Work products vs reference documents
 - Document records
 - Linking files (public vs private)
 - Assigning documents to WBS and activities
-

Module 11: Layouts, Grouping & Filtering

Lesson 11 – Creating Layouts

- Grouping and sorting
 - Filtering activities
 - Look-ahead planning filters
 - Multiple filters
 - Saving layouts for reporting
-

Module 12: Roles & Resources

Lesson 12 – Understanding Roles and Resources

- Roles vs resources
 - Labor, non-labor, and material resources
 - Resource dictionary
 - Roles dictionary
 - Rates, limits, and calendars
-

Module 13: Resource & Cost Assignment

Lesson 13 – Assigning Roles and Resources

- Assigning roles to activities
 - Assigning resources by role
 - Primary resources
 - Budgeted units and units/time
 - Material resources
 - Expenses and cost calculation
-

Module 14: Schedule, Resource & Cost Optimization

Lesson 14 – Optimizing the Project Plan

- Analyzing finish dates vs deadlines
 - Critical path compression techniques
 - Resource overallocation analysis
 - Resource Usage Profile
 - Cost review and budget validation
-

Module 15: Baselines

Lesson 15 – Baselining the Project Plan

- Purpose of baselines
 - Creating and managing baselines
 - Baseline types
 - Assigning project and user baselines
 - Displaying baseline bars in Gantt charts
-

Module 16: Performance Measurement

Lesson 16 – Reporting Performance

- Schedule reports
- Resource reports
- Time-distributed reports
- Layout-based reporting

Module 17: Progress Measurement

Lesson 17 – Methods of Applying Progress

- Percent complete methods
 - Physical vs duration percent complete
 - Progress concepts
-

Module 18: Project Execution

Lesson 18 – Executing the Project Plan

- Status updates
 - Progress Spotlight
 - Rescheduling during execution
-

Module 19: Performance Analysis & Control

Lesson 19 – Analyzing the Updated Project

- Post-update analysis
 - Schedule variance
 - Resource variance
 - Cost variance
 - Continuous performance review
-

Learning Outcomes

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

- Build and manage complete project schedules in Primavera P6
 - Apply CPM logic and resource planning
 - Control and optimize schedules, resources, and costs
 - Establish baselines and report project performance effectively
-

CS Global Group Pte Ltd

82 Ubi Ave 4, Edward Boustead
Centre, #01-02 | S408832

