

Course Syllabus

Course Title: Advanced Project Management in Oracle Primavera P6 V25

Course Code: P6-106P

Duration: 2 Days (15 hours)

Level: Advanced

Course Objectives

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

1. **Manage Project Data**
 - Assign and organize project, resource, and activity codes
 - Create and use user-defined fields
 - Apply global changes to update project data efficiently
2. **Plan and Organize Projects**
 - Create and manage portfolios
 - Structure and analyse projects using organizational tools
3. **Perform Advanced Scheduling**
 - Calculate multiple float paths
 - Apply scheduling logic (retained logic & progress override)
 - Evaluate calendar effects on schedule lag
4. **Monitor and Control Projects**
 - Define thresholds and generate issues
 - Track project performance and resolve problems
5. **Manage Data Integration**
 - Import and export data using XER, XML, XLS formats
 - Transfer and update project data via Microsoft Excel
6. **Maintain Project Baselines and Comparisons**
 - Update and manage baselines
 - Compare different project schedules and generate reports
7. **Analyse Project Performance**
 - Calculate percent complete using various methods
 - Apply earned value analysis (CPI, SPI, ETC)
8. **Optimize Project Resources and Costs**
 - Use duration types effectively
 - Analyse activity usage profiles and cost curves

9. Apply Advanced Estimation and Risk Techniques

- Perform top-down estimation
- Create and analyse project risks

10. Track Progress and Automate Calculations

- Create tracking layouts
 - Apply auto-compute actuals for activities, resources, and expenses.
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Course Lessons

Lesson 1: Assigning Codes

- Project, resource, and activity codes
 - Global, EPS, and project-level codes
 - Grouping and filtering project data
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Lesson 2: User-Defined Fields & Global Change

- Creating custom fields and data types
 - Using If-Then-Else logic for automation
 - Bulk updating project data
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Lesson 3: Portfolios

- Creating portfolios
 - Adding and accessing grouped projects
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Lesson 4: Advanced Scheduling

- Multiple float path analysis
 - Scheduling logic options
 - Calendar impacts on lag
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Lesson 5: Monitoring Thresholds & Issues

- Defining tolerances (thresholds)
- Issue generation and resolution

- Issue tracking and reporting
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Lesson 6: Importing & Exporting Data

- Export/import processes (XER, XML, XLS)
 - Backup and integration with other systems
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Lesson 7: Primavera–Excel Integration

- Exporting data to Excel
 - Modifying and importing updates
 - Creating new schedules via spreadsheets
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Lesson 8: Updating Baselines

- Baseline maintenance
 - Adding/removing activities
 - Updating project and resource data
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Lesson 9: Schedule Comparison

- Comparing baseline vs. revised schedules
 - Generating comparison reports
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Lesson 10: Duration Types

- Fixed units, duration, units/time
 - Impact on scheduling and resources
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Lesson 11: Percent Complete

- Duration, units, and physical % complete
 - Weighted steps for progress tracking
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Lesson 12: Earned Value Analysis

- Planned Value, Earned Value, Actual Cost
 - CPI, SPI, ETC calculations
 - Performance measurement
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Lesson 13: Activity Usage Analysis

- Cost and resource curves
 - Activity usage spreadsheet
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Lesson 14: Top-Down Estimating

- Assigning estimation weights
 - Cost and effort distribution
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Lesson 15: Risk Documentation

- Risk identification and classification
 - Exposure calculation and impact analysis
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Lesson 16: Tracking Layouts

- Types of layouts (Gantt, table, resource analysis)
 - Customizing project views
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Lesson 17: Auto Compute Actuals

- Business rules for automatic updates
 - Activity, resource, and expense calculations
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Assessment & Learning Approach

- Hands-on practical exercises for each Lesson
- Scenario-based workshops and case studies
- Review questions and knowledge checks
- Real project data manipulation

Tools & Software

- Oracle Primavera P6
- Microsoft Excel (for integration and data analysis)

Expected Outcomes

After completing this course, participants will:

- Plan, schedule, monitor, and control complex projects
- Analyse cost and schedule performance using advanced techniques
- Automate project data management and reporting
- Integrate Primavera with other tools for efficient workflows

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