

ICC INDIA - PROTECON BTG PRESENTS HANDS-ON WORKSHOP IN PRIMAVERA P6 WITH RESOURCE LOADING

A practical 5-day hands-on Primavera P6 workshop designed to equip professionals with the knowledge and skills to create, manage, monitor, and control project schedules using industry best practices.

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HANDS-ON WORKSHOP IN

PRIMAVERA P6 WITH RESOURCE LOADING

Primavera P6 is a globally recognized, industry-standard project management and scheduling tool used for managing large, complex, and multidisciplinary projects across infrastructure, EPC, energy, and capital-intensive industries. Unlike basic scheduling tools, Primavera P6 is designed to support robust planning, integrated controls, and reliable forecasting throughout the project life cycle.

This hands-on training program provides a practical, end-to-end understanding of Primavera P6, enabling participants to create, analyze, manage, and control project schedules with confidence. The program emphasizes real-world application, focusing not only on software navigation but on how to develop an ideal, logic-driven, and defensible project schedule aligned with best project controls practices.

The training bridges the gap between theory and execution, ensuring participants understand how Primavera P6 supports effective decision-making through accurate scheduling, resource management, and reporting.

YOU WILL LEARN HOW:

- ✓ Create and structure Projects, EPS, and WBS aligned with organizational and contractual requirements
- ✓ Define and manage Calendars, including in-depth analysis of calendar modifications, exceptions, shifts, and their impact on schedules
- ✓ Develop logic-driven schedules using relationships, constraints, and milestones
- ✓ Configure and use Use-Defined Fields (UDFs) for enhanced project controls, reporting, and customer organization
- ✓ Manage and optimize Resources, including resource loading, leveling, and analysis
- ✓ Understand activity types, durations, and critical path behavior
- ✓ Track progress using baselines, updating techniques, and performance metrics
- ✓ Create professional Reports, Layouts, and Printing Formats for management and stakeholder communication
- ✓ Analyze detail, float, and schedule health indicators
- ✓ Generate reliable schedules suitable for claims support, audits, and executive reporting.

BENEFITS:

- Develop practical, job-ready Primavera P6 skills
- Learn industry-accepted scheduling best practices.
- Improve schedule accuracy, transparency, and defensibility.
- Enhance coordination between planning, execution, and management teams.
- Build confidence in managing complex, multi-stakeholder projects.
- Enable data-driven decision-making through reliable schedules

THIS WORKSHOP WILL COVER THE FOLLOWING KEY ACTIVITIES WITH PRACTICAL EXAMPLES:		
1	Project Creation & Structure	Establishing EPS, projects, WBS, and activity hierarchies for clarity and control.
2	Calendar Configuration & Analysis	In-depth coverage of global, project, and resource calendars, including calendar changes and schedule impact analysis
3	User Defined Fields (UDFs)	Customizing Primavera P6 to capture project-specific data beyond standard fields.
4	Resource Management	Efficient resource planning, allocation, levelling, and performance monitoring to avoid over-allocation and inefficiencies.
5	Reporting & Printing Formats	Designing layouts, dashboards, and print-ready reports tailored for clients, management, and site teams
6	Schedule Quality & Reliability	Building realistic, logic-based schedules that reflect execution strategy and contractual intent.

OUTCOME OF PROGRAM:

By the end of this **five-day program**, participants will be able to independently develop, update, analyze, and present Primavera P6 schedules that are logic-driven, transparent, and professionally defensible, suitable for execution control, management decision-making, and contractual requirements.

SESSION - 1**(10.00 AM
TO 11.30 AM)**

- Team Introduction
- Training Overview
- Introduction to Project Scheduling & Primavera P6

TEA BREAK (11.30 AM TO 11.45 AM)**SESSION - 2****(11.45 AM
TO 01.15 PM)****Enterprise Project Structure (EPS) & Organizational Alignment**

- EPS concepts and governance structure.
- Aligning EPS with organizational, portfolio, and contractual needs
- Creating and managing EPS hierarchies
- Best practices for multi-project environments

LUNCH (01.15 PM TO 02.00 PM)**SESSION - 3****(2.00 PM
TO 3.30 PM)****Creating Projects & Project Settings**

- Creating a new project from scratch.
- Project details, scheduling options.
- Responsibility assignments and project preferences.
- Common setup mistakes and their long-term impact

TEA BREAK (03.30 PM TO 03.45 PM)**SESSION - 4****(03.45 PM
TO 05.15 PM)****Work Breakdown Structure (WBS) Development**

- WBS principles and coding standards.
- Contract-aligned and deliverable-based WBS.
- Creating and managing WBS in P6
- WBS vs. activities controls perspective

SESSION - 1**(10.00 AM
TO 11.30 AM)****Calendars- Concepts & Configuration**

- Global, Project, and Resource calendars
- Working hours, holidays, shifts, and exceptions.
- Calendar assignment hierarchy
- Impact of calendar changes on schedule outcomes

TEA BREAK (11.30 AM TO 11.45 AM)**SESSION - 2****(11.45 AM
TO 01.15 PM)****Activity Creation & Classification**

- Activity types and appropriate usage
- Durations, units, and planning assumptions
- Activity coding structures.
- Best practices for activity naming and breakdown

LUNCH (01.15 PM TO 02.00 PM)**SESSION - 3****(2.00 PM
TO 3.30 PM)****Schedule Logic & Relationships**

- FS, SS, FF, SF relationships with real examples
- Leads, lags, and their proper application
- Avoiding open ends and logic traps
- Logic-driven vs. date-driven schedules

TEA BREAK (03.30 PM TO 03.45 PM)**SESSION - 4****(03.45 PM
TO 05.15 PM)****Constraints, Milestones & Critical Path**

- Mandatory vs. flexible constraints
- Maintained internal & internal)
- Understanding Critical Path Method (CPM)
- Float behavior and schedule sensitivity

SESSION - 1**(10.00 AM
TO 11.30 AM)****Resource Fundamentals**

- Resource types and structures
- Creating and assigning labor, non-labor, and cost resources
- Shifts, productivity, and coordination relationships

TEA BREAK**(11.30 AM TO 11.45 AM)****SESSION - 2****(11.45 AM
TO 01.15 PM)****Resource Loading Analysis**

- Resource-driven schedules
- Resource histograms and profiles
- Identifying over-allocation and inefficiencies
- Planning, execution perspective

LUNCH**(01.15 PM TO 02.00 PM)****SESSION - 3****(2.00 PM
TO 3.30 PM)****Resource Leveling & Optimization**

- Leveling concepts and limitations
- Leveling priorities and options
- Introduce new policy or project duration
- Best practices and common pitfalls

TEA BREAK**(03.30 PM TO 03.45 PM)****SESSION - 4****(03.45 PM
TO 05.15 PM)****Schedule Quality & Health Checks**

- Schedule Quality Indicators (SQs)
- Logic density, float analysis, constraints review
- Introduction to schedule audits
- Characteristics of a defensible baseline schedule

SESSION - 1**(10.00 AM
TO 11.30 AM)****Baselines & Performance Measurement**

- Purpose of baselines
- Creating and managing multiple baselines
- Baseline comparison techniques
- Common baseline control mistakes

TEA BREAK (11.30 AM TO 11.45 AM)**SESSION - 2****(11.45 AM
TO 01.15 PM)****Schedule Control & Variance Analysis**

- Delay identification techniques
- Critical path changes over time
- Float consumption and recovery analysis
- Early warning indicators for delays

LUNCH (01.15 PM TO 02.00 PM)**SESSION - 3****(2.00 PM
TO 3.30 PM)****Progress Updating Techniques**

- Status date concept
- Actuals vs. remaining duration updates
- Percent complete methods
- Best practices for consistent updating

TEA BREAK (03.30 PM TO 03.45 PM)**SESSION - 4****(03.45 PM
TO 05.15 PM)****Forecasting & What-If Scenarios**

- Schedule recalculation principles.
- Time impact and mitigation scenarios
- Recovery logic and sequencing
- Management-focused forecasting

SESSION - 1**(10.00 AM
TO 11.30 AM)****Layouts, Filters & Visualization**

- Creating professional layouts
- Filters, grouping, and sorting
- Bar chart customization for clarity
- Management vs. planning views

TEA BREAK**(11.30 AM TO 11.45 AM)****SESSION - 2****(11.45 AM
TO 01.15 PM)****Delay, Float & Claims-Oriented Analysis**

- Delay identification techniques
- Float ownership and consumption concepts
- Preparing schedules suitable for claims and audits

LUNCH**(01.15 PM TO 02.00 PM)****SESSION - 3****(2.00 PM
TO 3.30 PM)****Reports, Printing & Stakeholder Communication**

- Standard and customized reports.
- Printing options and formats
- Data presentation for executives and clients
- Schedule narratives and explanations

TEA BREAK**(03.30 PM TO 03.45 PM)****SESSION - 4****(03.45 PM
TO 05.15 PM)****End-to-End Case Study & Best Practices**

- Complete project schedule walkthrough
- Common industry mistakes and lessons learned
- Alignment with Contracts, Claims & Controls / Introduction to Forensic Schedule Analysis (Subject to Availability of Time)

Notes

- The Speaker will co-relate every topic with real life challenges in EPC environment
- Every session will involve Question / Answer Session on the topics covered.

SPEAKER'S PROFILE

Manish Khilauria, PgMP®

CEO & MD, Protecon BTG | B.E. (Civil), IIT Roorkee



Professional Skills

- Program Management & Controls
- Project Management & Controls
- Planning, Scheduling & Monitoring
- Governance Management & Structuring
- Benefits Management & Analysis
- Stakeholder Management & Analysis
- Dispute Resolution & Analysis
- Risk Management & Analysis
- Qualitative / Quantitative Risk Analysis
- Change Management & Analysis
- Communication Management & Analysis
- Conflict Management & Interpersonal Skills
- Procurement & Tendering Processes
- Contract Negotiation & Administration
- System & Procedures Development
- Quality Management (QA / QC)
- Budget Preparation & Control
- Invoice Preparation / Certification
- Manpower Planning & Analysis
- Manpower Recruitment & Performance Review
- Reporting & Forecasting
- Asset Capitalization
- Program / Project Closeout

Computer Skills

- MS Office
- MS Project
- P3 & Primavera 6
- P6 Analytics
- Oracle Risk Analysis (Pert-Master) @Risk Software
- Decision Tree Analysis
- SAP-MM & PS Module
- JD Edwards Accounting Software PRISM
- Aconex
- Assai
- Documentum
- Primavera Contract Manager

Career Summary

Manish Khilauria, PgMP®, a certified **Program Management Professional** by PMI-USA, possessing over **30+ years of experience** in the field, ranging predominantly across various phases of project execution, with an extra emphasis on **Project Planning, Scheduling, Monitoring, Budgeting, Reporting, Risk Management, Change Management, Invoice Management, and Contract Administration**. Thorough understanding of the knowledge areas, processes, and skill sets required as per the **PMBOK® Guide, The Standard for Program Management, and The Standard for Portfolio Management**.

Manish has been associated with several programs and projects of major national **Infrastructure & Energy Companies** in India and abroad. He has extensive exposure to **Project Controls** and management procedures followed by various internationally renowned companies. Also, he has extensive working experience and expertise in internationally recognised project management software packages, viz. **Primavera P6, MS Project, Project Scheduler 7, and Quantitative Risk Analysis using PERT Master and @Risk Software**.

Manish has wide experience in project implementation methodologies across various phases, such as **Feasibility Studies, FEED, Concept Optimisation, Detailed Engineering, EPCM (Engineering, Procurement, Construction Supervision and Project Management), EPC/LSTK, and Project Management Consultancy (PMC)** roles in diverse project sectors.

Manish has held multi-faceted responsibilities, including **Project Management, Contract Administration, Budgeting, Planning, Scheduling, Monitoring, Reporting, and Invoice Certification** processes for a portfolio of projects, right from **Project Initiation to Commissioning/Hand-over**, including **Basic Engineering, Detailed Engineering, Procurement, Construction, Shutdown, and Commissioning** activities, using **MS Project** and **Primavera Project Planner (P6, 8.2)** as planning and scheduling tools.

Manish is currently involved in multiple arbitration **proceedings** with retired Supreme Court Judges and is providing **expert witness** services for **Claimants and Respondents**.

In the past, Manish has worked with companies such as **Engineers India Limited (EIL)** in India, **Petrofac International Limited (PIL)** in the UAE, **Qatar Petroleum (QP)** and **Astad Engineering Consultancy and Project Management (AECPM)** in Qatar, and **Canadian Natural Resources Limited (CNRL)** in Canada.

With his background and experience, Manish plans to share his international experience and knowledge through the training and development of fresh graduates and professionals, especially in the field of **Project Management & Controls**, to help them accomplish the **Art of Project Management**.

SPEAKER'S PROFILE

Tejas Patel

Head (Project Controls), Protecon BTG | Petroleum Exploration Engineering, UPES



Professional Skills

- Project Management & Controls
- Planning, Scheduling & Monitoring
- Corporate Planning & Monitoring
- Stakeholder Management & Analysis
- Qualitative / Quantitative Risk Analysis
- Claim Management & Analysis
- Contract Negotiation & Administration
- Procurement & Tendering Processes
- Budget Preparation & Control
- Invoice Preparation / Certification
- Asset Capitalization & Project Closeout

Computer Skills

- MS Office (Word / Excel / PowerPoint)
P6 Primavera, P6 EPPM & Cloud
- Xpedeon – Budget Management
- Candy – Resource and Productivity
- Oracle – Primavera Risk Analysis (PRA)
- SAP-MM Module
- Aconex, Documentum
- MS Project
- Power BI Analytics

Career Summary

Tejas is a **Project Management and Controls Professional** having **14+ years of experience** in the **Oil & Gas** and **Infrastructure** sectors, predominantly across various phases of project execution, with a focused approach to **Project Planning, Scheduling, Monitoring, Budgeting, Reporting, Risk Management, Change Management, Invoice Preparation/Certification, Corporate Planning, and Contract Administration**.

Having been associated with several projects of major national oil companies in India and abroad, and with exposure to **Project Controls** and management procedures followed by various internationally renowned companies, he has gained extensive working experience and expertise in internationally recognised computer packages, viz. **Primavera P6, Primavera Risk Analysis, MS Project, Unifier, and EPPM**.

Tejas has wide experience in project implementation methodologies across various phases, such as **Feasibility Studies, FEED, Concept Optimisation, Detailed Engineering, EPCM (Engineering, Procurement, Construction Supervision and Project Management), EPC/LSTK, and Project Management Consultancy (PMC)** roles.

Being a **Project Management and Controls Professional**, Tejas has held **multi-faceted** responsibilities, including coordination with Engineering and Procurement, Contract Administration, Budgeting, Planning, Scheduling, Monitoring, and Reporting for projects, right from **Project Initiation to Commissioning/Hand-over**.

Tejas has participated in various multi-million-dollar contractual claims, negotiations, and **Extension of Time (EOT)** claims involving **Delay Analysis** using **SCL Protocols** and **AACE 29R-03**, as well as cost claims through ADR processes.

In the past, Tejas has worked for organisations such as **Galfar Engineering and Contracting SAOG (Oman), Simon India Ltd. (Delhi), Protecon BTG Pvt. Ltd. (U.P.), Moblize Pvt. Ltd. (Delhi), and Naik and Associates Projects Pvt. Ltd. (Gujarat)**.

Details of major projects and experience in managing EPC projects are shared hereafter:

- Delay Analysis for **DFCCIL CTP-14** (ICC Arbitration – Sojitz L&T vs DFCCIL)
- Delay Analysis for **DFCCIL CP-301** Package (currently under DAB)
- Delay Analysis for **DFCCIL CP-304** Package (currently under DAB)
- Setting up of **PMO Dashboards** in **Oracle Unifier** for **India's first Bullet Train Project** by **NHSRCL**
- Setting up of **PMO Dashboards** for **Texmaco Rail and Engineering Ltd.** for three railway projects
- EOT Claims for **DND-KMP Expressway**
- **2.3 M BPSD Refinery**, Duqm, Oman
- **0.3 MMTPA LPG Terminal**, Salalah, Oman
- **3.5 MMTPA LPG Terminal**, Mundra by M/s Adani Ports
- Delay Analysis for **FERNAS vs GSPL** arbitration
- Planning/Scheduling Services for **ZADCO's Sewage Treatment Units** at Offshore Platforms
- Planning/Scheduling Services for **ZADCO's Cooling Water Network** at Zirku