

# Protrainy

Making you Industry Ready <sup>®</sup>



# PRIMAVERA



# WHY THIS COURSE?

- ▶ **Civil Engineers With Knowledge in Primavera leads to the field of planning Engineering and Become Planning Engineers / Planners / Schedulers/ Control Engineers.**
- ▶ **Primavera also leads to a specialization called Planning Forensics.**
- ▶ **Having knowledge in Primavera will fetch you handsome pay if you are well versed/ have full knowledge in primavera and implement those on practical field.**
- ▶ **Primavera aims to provide all the essential requirements you need to successfully handle a Project on your own in an efficient way.**



# LET US MAKE YOU INDUSTRY READY<sup>®</sup>

# COURSE CONTENT





# **BASICS & INTRODUCTION OF PROJECT PLANNING & MANAGEMENT**

- ▶ COURSE INTRODUCTION**
- ▶ PROJECT MANAGEMENT AND ITS ELEMENTS.**
- ▶ PHASES IN CONSTRUCTION PROJECT.**
- ▶ ROLE OF PROJECT MANAGER AND PLANNING ENGINEER AND SKILL REQUIRED.**
- ▶ UNDERSTANDING THE PROJECT MANAGEMENT SOFTWARE (PRIMAVERA), ENTERPRISE PROJECT MANAGEMENT AND YOUR PROJECT.**






# GETTING STARTED WITH PROJECT SCHEDULING WITH PRIMAVERA

- ▶ **All about cpm & pert method with exercise based on them.**
- ▶ **Detail explanation on the terminologies used in critical path method as well as in primavera.**
- ▶ **Initial primavera setting & advance settings.**
- ▶ **Logging in, projects window, opening projects, displaying activities, Portfolios.**
- ▶ **Top and bottom panes, user preferences.**





# CREATING A PROJECT SCOPE PLAN AND ACTIVITIES SCHEDULE

- **Defining project activities, its sequence, estimated duration and relationship.**
- **Introduction to creating a new project, creating, copying, importing, setting up a project.**
- **EPS and OBS and its relation.**
- **Defining calendars introduction.**
- **Database default calendar, Global & project calendars, Project default calendar.**
- **Creating a new global, project Calendar and resource calendars & modifying calendar.**
- **Creating a primavera project WBS, Adding activities and organizing under the WBS.**
- **Important points before defining WBS structure and importance of Levels in wbs.**







# PROJECT SCHEDULE MANAGEMENT USING PRIMAVERA

- ▶ **Adding relationships- introduction**
- ▶ **Constraints and understanding different types of constraints**
- ▶ **Understanding relationships, lags and leads and critical activities and its importance.**
- ▶ **Adding and removing relationships, dissolving activities, circular relationships**
- ▶ **Viewing a project using the activity network view, and using the network view**
- ▶ **Early date, late date and float Calculations.**
- ▶ **Type of activities in primavera and Its effective use.**
- ▶ **Adding new activities, default activity duration, copying and Renumbering.**
- ▶ **Use of activity steps and progress monitoring using activity step completion.**





# UNDERSTANDING PROGRESS CALCULATION LOGIC IN PRIMAVERA WITH OUT-RESOURCES



- **Detail understanding on the type of duration in Primavera ( fix duration & unit, fix unit, fix units/time, fix duration & unit/time)**
- **Detailed description on duration % Complete type i.e. Physical, Duration & unit.**
- **Use of expected finish function is Primavera and activity suspension.**





# GROUP, SHORT AND FILTERS IN PRIMAVERA



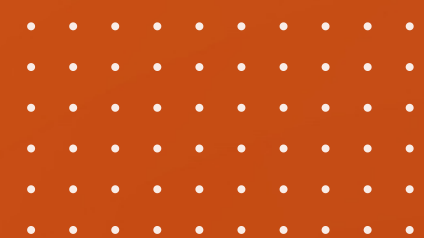
- ▶ **Grouping & shorting activities and Its effective use while scheduling.**
- ▶ **Understanding filters, applying a Filter, creating all general filters and modifying a filter.**
- ▶ **Use of global change in primvera.**
- ▶ **Understanding user define field in Primavera.**





# PROJECT PROGRESS MONITORING AND UPDATING



- ▶ **Concept of weightages system and Its allocation based of priority, Criticality, risk and cost.**
  - ▶ **Define project baseline and Maintain baselines.**
  - ▶ **Updating the un-resource project progress, monitoring the variance in baseline, updated schedule.**
  - ▶ **Validating the log-file in Primavera and to resolve out of Sequence & open-ended error.**
  - ▶ **check points to validate the undated schedule.**
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# FORMATTING PRINTS AND REPORTS

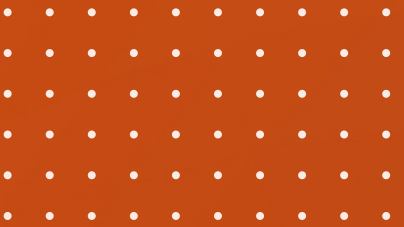
- ▶ **Formatting the layout for printing reports.**
- ▶ **Creating and printing different types of reports**
- ▶ **Printing, reports and visualizer -Summary**





# USER PREFERENCE AND CREATING RESOURCE AND ROLES



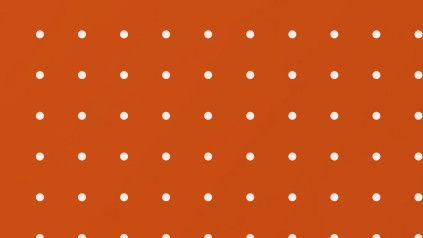
- **Creating roles and resources and understanding resources and roles.**
  - **Assigning roles, resources and expenses – introduction.**
  - **Understanding resource calculations and terminology (budgeted, max and actual units) and understanding its calculation and settings.**
  - **Project resource preferences, user preferences applicable to Assigning resources.**
  - **Assigning & removing roles, resources, resource duration & Calendar.**
  - **Activities window resource preferences and defaults.**
- 





# RESOURCE OPTIMIZATION AND MANAGEMENT



- **Reviewing resource loading, resource using resource user Profile and histogram.**
  - **Use of resource code and resource tracking.**
  - **Copying and pasting into excel, other tools for histograms and Tables**
  - **Updating a resourced schedule**
  - **Budget values & baseline projects, data date, required Information to update**
  - **Updating the schedule, updating resources, updating expenses.**
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# GLOBAL CHANGE AND UTILITIES

- **Introducing global change, the basic concepts & specifying the change statement.**
- **Reflection projects, advanced scheduling options, audit trail columns**
- **Excel import and export tool**







# PROJECT DELAY ANALYSIS AND DELAY RECOVERY PLAN

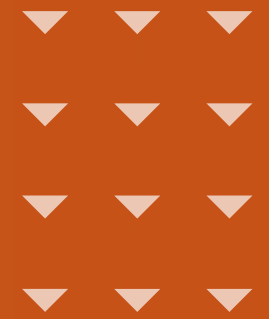


- **Identification of delay in project and how to estimate the delay.**
- **Crushing & fast tracking the schedule in primavera to recover delay or overallocation.**
- **Delay report and its impact.**

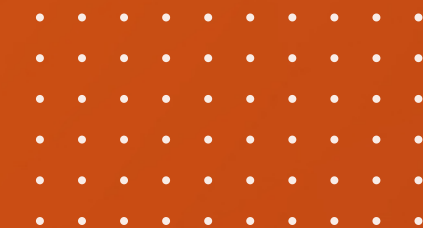




# PROJECT RISK MANAGEMENT



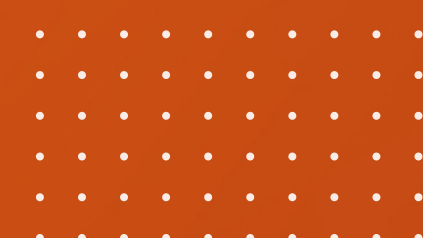
- **Identification of project risk and Its management plan.**
- **Preparing risk matrix and perform quantitatively risk Analysis.**
- **Risk mitigation plan and Monitoring risk.**





# PROJECT COST MANAGEMENT



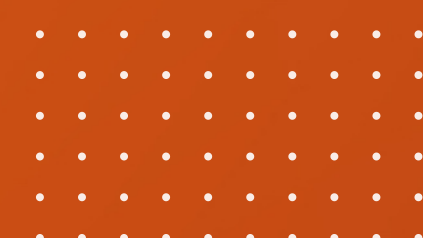
- **Defining project budget and project BOQ in primavera.**
  - **Defining budget for project without recourses and creating Budget report.**
  - **Creating cash-flow report.**
  - **Defining cost for resources and defining currency in primavera.**
  - **Creating different reports and financial curve for progress Monitoring.**
- 





# EARN VALUE MANAGEMENT



- **Earned value management Introduction**
  - **Earned value management terminologies and its use in project planning & monitoring.**
  - **Forecasting the project health schedule & cost variance ( delay, Loss or project, over budget etc.)**
  - **Earn value calculation theory & use in Primavera.**
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# PROJECT MONITORING AND PMIS DASHBOARD




- **Understanding the pmis system & Its advantages and Disadvantages.**
- **How to develop pms (project monitoring system) for complete project.**
- **Creating s-curve and 6 months review using p6 data in excel Based on duration progress & BOQ.**
- **How to monitor a project using s-Curve.**
- **Advance excel features related to planning and project management.**
- **Creating dynamic dashboards in Excel for project monitoring.**
- **Discussion of different KPI parameters for project monitoring.**

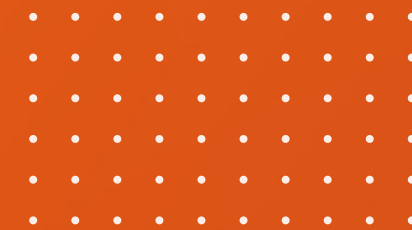


# COURSE OUTCOMES

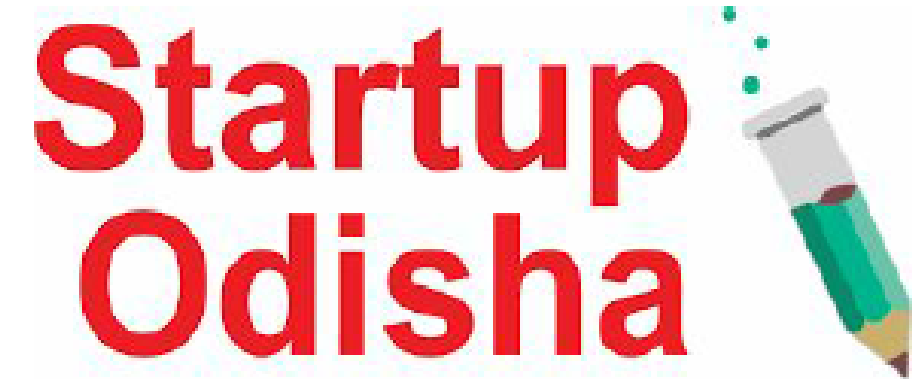




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- **Get characteristic manifestation on financial management tools & coauthoring using microsoft project software.**
  - **Plan, schedule, and control project**
  - **Assign resources to tasks, and track progress.**
  - **Monitor and visualize project performance versus plan.**
  - **Conduct what- if analysis, and analyze alternatives.**
  - **Allows schedule updates from multiple users at the same time.**
  - **Produce schedule and resource reports and graphics.**



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