


Project Planning, Scheduling and Cost Estimating Skills

The decision to proceed with a project is often based almost exclusively on early conceptual cost estimates, and these estimates provide the basis for the cash flow projections and forecasts used during the project feasibility study. Unreliable cost estimates can result in significant cost overruns later in the project life when it is too late to contain them.

Accurate cost estimation and project scheduling of a project results in significant savings, and is one of the critical management skills. In the initial stages and final stages of a project, it is necessary for proper estimation as with early conceptual estimates determines whether a project will be accepted/rejected.

Project Planning, Scheduling and Cost Estimation Planning Skills Training course will provide the skills for proper project scheduling and the skills required for cost estimation and planning.

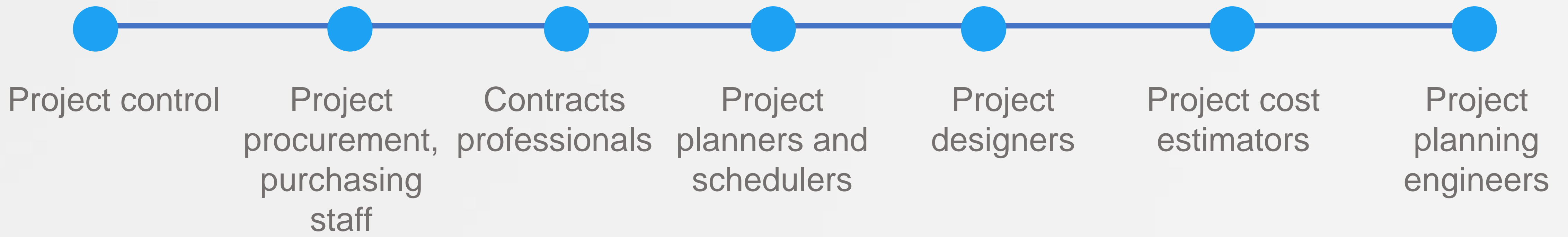
This 5-Days course will significantly enhance the skills and knowledge of delegates and improve their ability to properly plan and schedule their projects, as well as perform estimates at both the conceptual and detailed levels, and to compare feasible alternatives quickly and efficiently.

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- Objectives
- Gain knowledge of techniques used in resource planning and control.
 - Understand the time-cost trade-offs.
 - Identify risk sources and minimize their impact and how to sustain project momentum.
 - Learn how to administer project documentation and reporting.
 - Develop effective performance monitoring and control systems.
 - Gain knowledge of techniques used in project estimating
 - Understand the different types of estimates used to estimate project costs
 - Understand the different types of contracts based on the distribution of risk
 - Effectively apply incentive arrangements to get the best results from the contract



Who should attend

Project Planning, Scheduling and Cost Estimating Skills training course is ideal for:



Day 1

Project Scope Planning and Definitions (Fundamentals)

- Introduction to Project Management
- Scope Planning
- Work Packages, Scope Execution Plan
- Triple Constraints - Time Cost, Scope
- Project Delivery Systems



Day 2

Project Schedule Planning and Critical Path Method:

- Precedence Network Diagramming
- Critical Path Analysis, Project Float Analysis
- Lead and Lag Scheduling, Milestone Charts
- Activity Duration Estimation
- Gantt Chart - Schedule Baseline
- Project Estimating Processes. Production and Productivity Planning



Day 3

Accelerating the Project Schedule:

- Circumstances Requiring Project Acceleration
- Time-Cost-Scope Trade-off
- Project Time Reduction
- Direct & Indirect Project Costs
- Options for Accelerating the Schedule
- Network Activity Risk Profiles



Day 4

Project Contingency Planning:

- Program Evaluation and Review Technique (PERT)
- Path Convergence Analysis
- Solving the Path Convergence Problem
- Network Risk Profile Types
- Normal Distribution و Standard Deviation



Day 5

Line of Balance Scheduling

- Preparing a Line of Balance Schedule
- Balancing the Schedule
- Calculations for a Line of Balance Schedule
- Target Units per Week
- Determining Crew Size
- Balanced Project Schedule without Buffers (Finish-Start)