

# PROJECT MANAGEMENT



## Project Eng. Design (Concept Selection & Development)

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## Introduction:

In the present competitive business environment, there is an ever-increasing emphasis on timely market introduction of products. Owners are extremely sensitive to global market forces and are more demanding in their expectations of minimizing project design and construction cost and duration. Contractors are confronted more than ever with strong pressures to reduce construction cost and time. With the increase in project complexity, competent project planning and execution techniques are a major requirement for project success, especially when managing projects under compressed or accelerated conditions. In this programme you will:

- Enhance your leadership and management skills
- Develop strategies for project execution
- Select and manage modern tools for project management
- Control project execution effectively and efficiently

## Training Methodology

Participants will learn by active participation during the programme through the use of hands-on computer-based exercises, group discussions, project videos and discussions on "real life" issues in their projects.

## Certificate

**BTS** attendance certificate will be issued to all attendees completing minimum of 80% of the total course duration.

## Who Should Attend?

- Technical professionals and engineers
- Members of Process Improvement Teams
- Administrators responsible for managing projects
- Business Planners

## Course Objectives:

Participants attending the programme will:

- Understand various Project delivery systems
- Conduct a Cash Flow Analysis
- Apply Advanced Scheduling techniques
- Development a Project Control System
- Improve Managerial Approaches
- Handle Proactive and Reactive techniques for project management

## Programme Outline:

### **DAY 1 – Project Delivery, Financial Analysis & Claims**

- Project Delivery Systems
- Cash Flow Analysis
- Review of Project Economic Evaluation
- Project Estimating & Bid Unbalancing
- Claims Avoidance & Management

### **DAY 2 - Principles of Project Scheduling**

- Introduction to Planning
- Planning and Scheduling Methods
- Linear Scheduling Methods
- Critical Path Scheduling
- PERT Methods
- Reporting Issues

### **DAY 3 - Advanced Applications In Scheduling**

- Lead/Lag Scheduling
- Schedule Updating
- Cost Control and Earned Value
- Resource Allocation Methods
- Time-Cost Tradeoff
- Integration of Cost and Schedule Control

### **DAY 4 – Schedule Optimisation and Compression Techniques**

- Methods for Engineering and Construction Schedule Optimization
- Impact of Schedule Acceleration on Project Cost
- Managerial Techniques for Construction Schedule Compression

### **DAY 5 – Hands-On Project Scheduling & Control**

- Critical Path networks
- Lead / Lag Scheduling
- Developing a Target Schedule
- Project Update and Earned Value
- Resource Allocation