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بروجاكس للتدريب والتطوير  
Projacs Training and Development

# Project Planning and Execution – Advanced Course

4 – 8 November, 2019

Istanbul, Turkey

A Member of:



PROJACS ACADEMY



[ProjacsAcademy.com](http://ProjacsAcademy.com)



## Introduction

Managing the right projects is as important as managing projects right. Selecting the right projects for your organization is a business decision that needs a thorough understanding how projects will impact the business and people in your organization and your stakeholders and customers. In the same time, planning, executing, managing projects right is becoming complex and challenging to manage, and hence, advanced knowledge, skills, tools and techniques are needed to master the projects.

This course adds to your fundamental knowledge of project planning and execution by providing you the details of the major contemporary tools and techniques that are used in planning, executing, and controlling projects. The appropriate technologies are used to give the participant a “best practices” approach to the effective and efficient management of projects. Your learning is reinforced through a number of practical exercises using case studies and real projects.

## Objectives

By the end of this course practitioners shall be able to:

- Refresh the knowledge of the steps for planning, executing and controlling projects
- Learn how to calculate the total cost of ownership / total project life-cycle costs
- Learn how to apply the new trends in project planning in your projects including collaborative planning, and hybrid Waterfall-Agile combinations tools
- Understand and apply the concepts of Lean Construction
- Understand and apply the concepts of Total Quality Management (TQM)
- Learn the latest trends in Delay analysis using the SCL protocol
- Understand and apply advanced project risk management techniques
- Learn how to assess and recover troubled projects, and what special tools are there for planning and executing such troubled projects

## Who Should Attend?

- Senior Planning Engineers,
- Project Controls Managers / Planning Managers
- Project managers,
- Functional Managers,
- Quality Managers,
- Senior Construction Managers.

## Course Outline

### DAY 1:

- Introduction, Course Objectives and Pre-Course Assessment
- Quick review of the project planning and execution flow of steps
  - What is Planning?
  - Planning versus scheduling
  - Organize Project
  - Assign Responsibility
  - Develop Schedule (Integrated Master Schedule)
  - Establish Budget
  - Determine Performance Measurement Methods
  - Establish Performance Measurement Baseline (PMB)
  - Analyze Project Performance
  - Maintain PMB
- Managing multiple projects vs. portfolio / program management
- Workshop: Performance Measurement using EVM with 3 different measurement methods

### DAY 2:

- Total Cost of Ownership (Life-Cycle Costing) – “buying right rather than buying cheap”:
  - What is Total Cost of Ownership / LCC?
  - Components of LCC: Initial (Acquisition) Costs and Sustaining Costs
  - Step-by-Step LCC Calculations
  - Challenges in estimating initial and sustaining costs
  - Developing the Project Cost Estimate using:
    - Conceptual cost estimating methods
    - Detailed cost estimating methods
  - Using Life-cycle costing for economic decisions
  - How to use Excel Functions in economic analysis and decision making
  - Examples for selection of alternatives using Life Cycle costing
- Discounted Cash Flow Workshop (NPV, IRR, Break-even Analysis)

### DAY 3:

- Advanced Planning Tools and Techniques:
  - Is Agile planning suitable for construction?
  - Collaborative planning and Last Planner System (LPS)
  - Lean Construction Management
  - New developments in Delay Analysis
  - New trends in Earned Value Analysis in PMBOK® Guide, 6<sup>th</sup> Edition
  - Total quality management in construction

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**DAY 4:**

- Advanced risk management:
  - Critical success factors for successful risk management
  - Advanced Risk Management Tools:
    - SWOT Analysis
    - FMEA / Fault Tree Analysis in business environment
    - Force Field Analysis
    - Quantitative methods in risk management
    - Schedule – Risk analysis
    - Cost – Risk analysis
    - Probabilistic cash flow
    - Defining and managing time and cost contingencies
- Workshop: Using Excel and/or Specialized risk software in Quantitative Risk management

**DAY 5:**

- Assessment and Recovery of Troubled Projects
  - Assessment Phase
    - Initiate Assessment
    - Plan Assessment
    - Conduct Assessment
  - Recovery Phase
    - Plan Recovery
    - Conduct Recovery
    - Close Recovery
- Video case study of Troubled Projects
- General discussions
- Post course assessment
- Course closure

**Training Method**

- Pre-assessment
- Value Engineering Workshop
- Live group instruction
- Use of real-world examples, case studies and exercises
- Interactive participation and discussion
- Power point presentation, LCD and flip chart
- Group activities and tests
- Each participant receives a binder containing a copy of the presentation
- Slides and handouts
- Post-assessment

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### Program Support

This program is supported by interactive discussions, role-play, and case studies and highlight the techniques available to the participants.

### Schedule

**The course agenda will be as follows:**

- Technical Session 08.30-10.00 am
- Coffee Break 10.00-10.15 am
- Technical Session 10.15-12.15 noon
- Coffee Break 12.15-12.45 pm
- Technical Session 12.45-02.30 pm
- Course Ends 02.30 pm

**Course Fees: 3,700 \$**