BLACKBIRD
FOR TRAINING

Construction Project Management

Barcelona (Spain)

7 - 11 July 2025

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Construction Project Management

Introduction

For Construction Project Management, advanced knowledge and skills are needed. The overall aim of this course is to provide participants with the knowledge and skills needed to perform an in-depth analysis of a construction project during the planning and implementation phases. Participants in this interactive course will learn all the critical tools and techniques required to make decisions to optimize the successful execution of a project in a dynamic environment.

Course Objectives of Construction Project Management

- Define construction project management frameworks, processes, and tools in compliance with the Project Management Institute PMI standards.
- Apply different techniques that will assist in the project selection process.
- Identify different methods for cost estimating and project budgeting.
- Manage time and cost deviations by applying 'earned value analysis'.
- Employ risk management plans and apply risk response strategies to ensure successful implementation of the project.

Course Outlines of Construction Project Management

Day 1

Overview of Construction project management

- Defining construction project management terminologies.
- Construction Project management benefits.
- Triple constraints.
- Project life cycle.
- Project stakeholders.
- Effect of organizational structure.

Day 2

Project selection

- Project selection models.
- Benefit-cost ratio.
- Average Rate of Return ARR.
- Payback period.
- Net Present Value NPV.

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- Internal Rate of Return IRR.
- Decision trees.
- Project selection in hospitals and workshops.

Day 3

Project planning and scheduling

- Project charter.
- Project scope statement.
- Building work breakdown structure.
- Duration estimation.
- Program Evaluation and Review Technique PERT.
- Relationships between activities.
- Network Diagram.
- Critical Path Method CPM.
- Manipulating logic.
- Resource allocation.
- Resource leveling.
- Duration acceleration.
- Project planning and scheduling in hospitals and workshops.

Day 4

Construction Project budgeting

- Cost estimating techniques.
- Cost baseline.
- Project budget.
- Slack management.
- Compression by crashing.
- Project budgeting.

Construction Project control

- Variance analysis.
- Dashboards and scorecards.
- Key performance indicators.
- Earned value.
- Managing deviations.
- Project control.

Day 5

Construction Project risk management

- Project risk identification.
- Qualitative risk analysis.
- Quantitative risk analysis.
- Project risk response planning.

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- Contingency and management reserves.
- Project risk management in Workshops.

Program management

- Program life cycle.
- Developing program work breakdown structure.
- Developing a program schedule.
- Developing program financial plan.
- Program management in Workshops.

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