Construction Project Management

16 – 20 August 2027
Singapore (Singapore)



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Introduction

In Construction Project Management, advanced knowledge and practical skills are crucial to ensuring a project's success. This course is designed for those who want to gain an in-depth understanding of the planning and implementation phases of a construction project. Whether you're a new or experienced construction project manager, this construction project management training will provide you with essential tools, techniques, and strategies to handle complex projects in a dynamic environment. Learn how to apply project management frameworks and processes that comply with the Project Management Institute PMI standards, ensuring effective project execution every time.

Course Objectives

By the end of this course, participants will be able to:

- Define the construction project management frameworks, processes, and tools, following PMI standards.
- Apply various techniques to assist in the project selection process to make informed decisions.
- Identify the most effective methods for cost estimating and project budgeting.
- Manage time and cost deviations by utilizing earned value analysis for improved project performance.
- Develop and implement risk management plans, applying risk response strategies to ensure the successful execution of a construction project.

Course Outlines

Day 1: Overview of Construction Project Management

- Defining construction project management terminologies.
- Understanding the benefits of construction project management.
- Triple constraints: Managing time, cost, and scope.
- The project life cycle in construction.
- Identifying key project stakeholders in a construction environment.
- The impact of organizational structure on project execution.



Day 2: Project Selection

- Understanding different project selection models.
- Using Benefit-cost ratio to evaluate projects.
- Calculating Average Rate of Return ARR and Net Present Value NPV.
- Evaluating projects using Internal Rate of Return IRR.
- How to make project selection decisions in different contexts, such as hospitals and workshops.

Day 3: Project Planning and Scheduling

- Creating a project charter to define the scope of the project.
- Developing a project scope statement.
- Building the work breakdown structure WBS to break down tasks.
- Estimating durations and using Program Evaluation and Review Technique PERT.
- Understanding Critical Path Method CPM and its application to projects.
- Applying resource allocation and resource leveling techniques for optimal efficiency.
- Duration acceleration and its importance in tight schedules.
- Project planning and scheduling in specialized environments like hospitals and workshops.

Day 4: Construction Project Budgeting

- Exploring various cost estimating techniques.
- Creating a cost baseline and project budget.
- Managing slack and adjusting schedules using compression techniques like crashing.
- Tools for variance analysis and measuring project performance.
- Developing dashboards and scorecards to track KPIs.
- Managing earned value and correcting deviations from the plan.
- Construction project control techniques for monitoring and ensuring successful delivery.

Day 5: Construction Project Risk Management

- Identifying project risks early in the process.
- Performing qualitative and quantitative risk analysis.
- Developing a risk response plan to address potential issues.
- Creating contingency plans and managing reserves.
- Applying project risk management techniques to ensure successful project delivery.
- Understanding program management concepts and the program life cycle.
- Developing a program work breakdown structure WBS and program schedule.
- Setting up a program financial plan for better management of multiple projects.

Why Attend This Course? Wins & Losses!

Attending the Construction Project Management Course offers significant advantages:



- Gain comprehensive knowledge and hands-on experience in managing construction projects from start to finish.
- Learn how to effectively plan a construction project, manage costs, and maintain quality standards while adhering to the PMI framework.
- Master advanced project management skills and techniques for handling construction projects, including the ability to adapt to changes and control risks.
- Learn how to create a construction project plan and apply methods for selecting the right projects using models like Benefit-Cost Ratio and Internal Rate of Return.
- Acquire skills in managing project budgets and implementing variance analysis, improving the efficiency of your construction project management.

Whether you are aiming for construction management certification or looking to enhance your current skills, this course will equip you with the essential tools and methodologies for construction project management success.

Conclusion

By completing this Construction Project Management training, you will gain the confidence and skills to tackle complex projects, manage risks, and make effective decisions during the planning and implementation phases of construction projects. With the knowledge of key project management frameworks, budgeting techniques, and risk management strategies, you will be well-equipped to take on the role of project manager in construction.

Register today to learn the best practices in construction project management, and unlock the full potential of your career in the construction industry!

