Construction Project Management for Government Projects

Bangkok (Thailand)

4 - 15 January 2027

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Introduction

Government construction projects are among the most complex types of projects, as they require professional management to ensure that project objectives are achieved within the approved time frame and budget, while maintaining the highest standards of quality, safety, and compliance with government regulations and legislation. These projects also require effective coordination among project owners, consultants, contractors, regulatory authorities, and stakeholders to ensure successful implementation and sustainable value.

This course is designed to equip participants with the advanced knowledge and skills required to manage government construction projects in line with global best practices, based on the latest editions of the PMBOK® Guide and ISO 21502:2020 Project Management Standard, with a focus on practical applications in capital projects and government infrastructure projects.

The course covers all stages of the project, starting from feasibility study and planning, through design management, contracts, execution, and control, and ending with handover, delivery, and project closure, supported by case studies and practical exercises derived from government projects.

Course Objectives

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

- Apply global best practices in managing government construction projects.
- Plan and manage construction projects from concept stage to final handover.
- Prepare integrated plans for managing project scope, schedule, cost, and quality.
- Apply risk management methodologies to reduce their impact on the project.
- Manage contractors, consultants, and government contracts efficiently and professionally.
- Monitor project performance using Key Performance Indicators KPIs and Earned Value Management EVM.
- Manage changes, claims, and challenges that may arise during project execution.
- Enhance effective communication and coordination among all stakeholders.
- Apply governance and compliance principles in government projects.
- Manage preliminary and final handover processes and project closure according to best practices.

Course Outlines

Day 1: Fundamentals of Government Construction Project Management

- Concept of government construction project management.
- Characteristics of government and infrastructure projects.
- Construction project lifecycle.
- Roles and responsibilities of the project team.
- Project governance and institutional governance frameworks.
- PMBOK® and ISO 21502 standards in project management.

- Success factors for government projects.

Day 2: Project Initiation and Planning

- Preparing the feasibility study and analyzing project needs.
- Preparing the Project Charter.
- Defining project scope.
- Preparing the Work Breakdown Structure WBS.
- Building the project organizational structure.
- Identifying and analyzing stakeholders.
- Developing the project management plan.

Day 3: Project Planning and Scheduling

- Principles of preparing the project schedule.
- Applying the Critical Path Method CPM.
- Program Evaluation and Review Technique PERT.
- Resource planning and management.
- Resource leveling and resource balancing.
- Preparing project milestones.
- Introduction to using Primavera P6 for planning and monitoring.

Day 4: Cost Management and Project Control

- Project cost estimation methods.
- Preparing the project budget.
- Establishing the cost baseline.
- Cash flow planning.
- Applying Earned Value Management EVM.
- Cost and schedule performance indicators.
- Preparing project dashboards.

Day 5: Procurement and Contract Management

- Procurement procedures in government projects.
- Preparing tender documents.
- Evaluating and selecting contractors.
- Managing consultants.
- Contract administration and execution.
- Managing change orders.
- Managing contractual claims.
- Introduction to FIDIC contracts.

Day 6: Construction Project Risk Management

- Identifying and analyzing project risks.
- Qualitative and quantitative risk analysis.
- Preparing the risk register.
- Risk response strategies.

- Contingency plans and reserves.
- Monitoring risks during execution.
- Documenting lessons learned.

Day 7: Quality Management in Construction Projects

- Quality planning.
- Quality assurance.
- Quality control.
- Inspections and testing.
- Defect management.
- Commissioning tests.
- Handover and delivery procedures.

Day 8: Leadership and Stakeholder Management

- Effective leadership in projects.
- Preparing the communication plan.
- Stakeholder management.
- Negotiation skills.
- Conflict management.
- Building and managing project teams.
- Decision-making in government projects.

Day 9: Project Monitoring and Performance Recovery

- Monitoring project performance.
- Developing Key Performance Indicators.
- Preparing progress reports.
- Delay analysis.
- Recovery plans for delayed or troubled projects.
- Project review and audit.
- Project closure procedures.

Day 10: Integrated Case Study and Practical Workshop

- Integrated case study of a government construction project.
- Preparing the project plan.
- Preparing the project schedule.
- Preparing the budget.
- Risk analysis and management.
- Evaluating contractor performance.
- Group presentations.
- Extracting lessons learned.
- Comprehensive course review and workplace application plan.

Training Methodology

The course is based on a combination of modern training methods, including:

- Interactive lectures.
- Practical workshops.
- Real-life case studies.
- Practical exercises in project planning and management.
- Group discussions and experience sharing.
- Practical applications in risk management and project control.
- Analysis of real government and construction projects.

Target Audience

- Construction and government project management.
- Infrastructure and capital projects.
- Civil and architectural engineering.
- Quantity surveying and cost management.
- Contract and procurement management.
- Planning, scheduling, and performance monitoring.
- Risk, quality, and safety management.
- Municipal, civil defense, and public facility projects.

Why Attend This Course: Wins & Losses!

- Apply international best practices in government construction project management.
- Strengthen planning, scheduling, cost control, and project delivery capabilities.
- Improve contract, procurement, and stakeholder management skills.
- Enhance project performance using KPIs and Earned Value Management EVM.
- Develop practical approaches to managing project risks, changes, and claims.
- Strengthen leadership and decision-making in government project environments.
- Improve quality management, compliance, and project governance practices.
- Successfully manage government infrastructure and public facility projects with greater confidence and efficiency.

Conclusion

Government construction project management is a fundamental pillar for ensuring the efficient and sustainable delivery of infrastructure and public facility projects. Through this course, participants will gain the knowledge, tools, and skills required to manage projects according to international best practices.

The course will also enhance their ability to make informed decisions, manage risks, and balance time, cost, and quality, contributing to the successful completion of government projects and the achievement of institutional and economic development objectives.

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