

# PM 325 – Project Management and Construction related Projects

## Course Outline

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**Revised:** 2020

### **PMBok Guide Knowledge Area:**

Project Integration, Scope, Schedule, Cost, Risk, and Quality Management, Project Resource Management, Project Stakeholder Management

### **Course Description:**

This course is designed for professionals currently working on construction-related projects who are responsible for managing or contributing to the delivery of large-scale construction initiatives. It focuses on the practical application of project management principles within the construction industry and provides comprehensive training on managing the project lifecycle from initiation through closeout. The course covers essential topics including construction project phases, contract administration, Contract Law, Construction Lien Act, and effective construction change management.

### **Course Learning Outcomes:**

Upon successful completion of this course, participants will be able to:

- Understand the unique project management challenges in the construction industry.
- Navigate the various stages of a construction project, from concept to completion.
- Apply principles of contract administration and manage contractual obligations.
- Interpret and apply Contract Law and the Construction Lien Act within project workflows.
- Develop and manage construction project plans including schedule, budget, risk, procurement, and quality components.
- Lead multidisciplinary project teams and coordinate efforts among consultants, contractors, and stakeholders.
- Manage construction change orders and ensure compliance with project governance and legal requirements.
- Close out construction projects effectively, including project documentation and legal finalization.

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## **Course Topics:**

### **1. Overview of Construction Project Management**

- Characteristics of large construction projects
- Industry structure and project roles
- Overview of the construction project lifecycle

### **2. Construction Project Initiation and Planning**

- Feasibility studies and stakeholder analysis
- Scope definition and WBS for construction
- Budgeting, estimating, and procurement planning

### **3. Contract Administration**

- Understanding construction contracts
- Managing RFIs, submittals, and documentation
- Contractor performance and oversight

### **4. Contract Law and the Construction Lien Act**

- Key principles of Contract Law in construction
- Overview of the Construction Lien Act and legal obligations
- Legal documentation and dispute resolution

### **5. Construction Execution and Performance Control**

- Managing site activities and progress tracking
- Health, safety, and environmental considerations
- Schedule controls and resource management

### **6. Construction Change Management**

- Identifying and evaluating change impacts
- Administering change orders and claims
- Maintaining scope and contract compliance

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## **7. Project Closeout and Finalization**

- Deliverable verification and deficiency resolution
- Final payments and lien releases
- Lessons learned and documentation

## **Other Details**

- This course is customizable to meet client requirements