

INTRODUCTION TO CONSTRUCTION PROJECT MANAGEMENT

course outline



1. Leadership

2. Project Management Overview

- What is project management?
- Critical PM skills
- Communications
- Managing stakeholders
- Managing risk

3. Programming

- Process
- Research
- Space
- Tools and technology
- Existing facilities

4. Project Delivery Methods

- Types and pros/cons
- Selecting the right method
- Case study examples

5. Master Project Scheduling

- Schedule types
- Developing a schedule
- Milestones & durations
- Scheduling pitfalls

6. Design Team Selection

- Personalities
- Timing
- RFP vs. RFQ
- Selection criteria and scoring
- Fees

7. Contractor Selection

- Methods
- Criteria
- Price and qualifications
- Case studies
- Contractor perspectives

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8. Design Process

- Goals - quality, cost, schedule
- Phases
- Case studies
- Putting it all together

9. Sustainability, Wellness, and BIM

- Sustainability WHY and HOW
- Sustainability case study
- BIM definition and intro
- BIM uses and benefits

10. Managing the Budget

- Intro and components
- What if you're over budget?
- Value engineering/analysis
- Expectations and pitfalls

11. Staying on Schedule

- Intro and types
- Developing & maintaining
- Pitfalls and delays
- Recovery

12. Construction Administration

- Intro and setup
- Budget & schedule control
- Change management
- Design documents & issues
- Labor and safety
- Payment
- QA, Inspections, and Cx

13. Project Closeout

- Intro and challenges
- Administration & documentation
- Occupancy and evaluation
- Financial closeout