

# Construction Management Principles Course™

## The Construction Management Principles course provides a basic understanding of construction management and the role of the construction manager (CM).

This course will provide an overview of owners and project types, contracts and agreements, CM project management, leadership, ethics, soft skills, and career development.

### Who Should Attend?

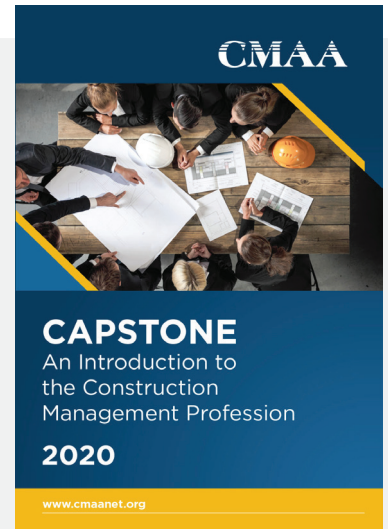
- ✓ Soon-to-be and recent graduates looking to begin their CM career.
- ✓ Early career professionals focused on becoming a professional CM.
- ✓ Mid-career professionals looking for a pathway to transition into a CM career.

### Learning Objectives

- ✓ Distinguish and explain construction management and review the responsibilities of CMs within the project scope.
- ✓ Identify the factors controlled by the specialized management technique and describe the use techniques to plan, coordinate, monitor, and control a construction project.
- ✓ Understand the overall process of safely managing a quality project from start to finish applicable to any industry, within budget, on schedule, and meeting scope expectations as applied specifically to the construction industry addressing all associated risks.

### INCLUDED with REGISTRATION

- ✓ *Capstone: An Introduction to the CM Profession*
- ✓ *What is Your Construction Management IQ?*



### Credit for Professional Development

CMAA provides professional development credit for those who complete The Construction Management Principles Course™. In order to meet the varied formats for reporting mandated education requirements to licensing boards, credits are identified as Professional Development Hours (PDH). CMAA is registered with the National Council of Examiners for Engineering and Surveying (NCEES) as an approved provider. Course participants earn 6 PDHs and CMCI Renewal Points. All NCEES transcripts can be accessed electronically by the participant. Partial credit is not assigned. The full day of the course must be completed to receive credit.



## Construction Management Principles

### Construction Management

- » History of Construction Management
- » Why Construction Management?
- » What is in a CM's "Toolbox"
- » Stakeholders and participants
- » Types of Owners & Projects
- » CM Services and Responsibilities

### Construction Managers

- » Required Skills and Abilities
- » Work Style
- » Roles & Responsibilities

### Contract Administration

- » Reading and Understanding Contracts
- » Document Review
- » Contract Terms and Conditions
- » Contract Responsibilities
- » RFP, RFI, RFQ

### Projects

- » Project Phases
- » Project Lifecycle
- » Deliverables by Phase
- » Project controls
- » Domains
- » Delivery Methods

### Qualities of a CM

- » Emotional Intelligence & Awareness
- » Communication
- » Communication Styles
- » Leadership

### Career Development

- » Where to Work
- » Credentials
- » Agency & CMAR Career Progression

## Construction Management by Domain



### Program & Project Management

Construction Management Plan  
Project Procedures Manual



### Cost Management & Value Engineering

Estimates  
Contingency  
Change Management Techniques



### Information Management

CMMS  
KPIs & Dashboards  
Handling Client Information



### Quality Management

Quality Management Plan  
Quality Assurance  
Quality Control  
Non-Conformance



### Risk Management

Quantitative Analysis  
Qualitative Analysis  
Risk Matrix



### Sustainability

Building Codes  
Lifecycle Cost  
Triple Bottom Line  
Certifications



### Time Management

Types of Schedules  
Scheduling Tools  
Scheduling Procedures  
Critical Path Method  
Work Breakdown Schedules  
Schedule of Values



### Technology

Transition to Technology  
BIM Dimensions  
BIM Level of Development  
Digital Twins  
Applying Technology



### Safety & Liability

CMAA's Safety Policy Statement  
Three Legs of Safety  
Safety Culture vs Safety Climate  
OSHA  
OSHA Violation Categories and Fines  
OSHA Top 10 Multi-Employer Worksites  
OSHA Record Keeping Requirements  
Job Hazard & Safety Analysis  
Claims & Dispute Resolution