

Principles of Construction Management Course™



Advancing Professional Construction and Program Management Worldwide

The Principles of Construction Management 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

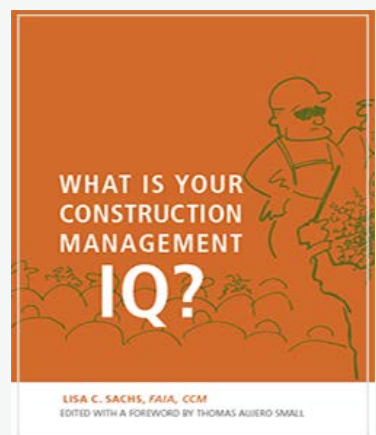
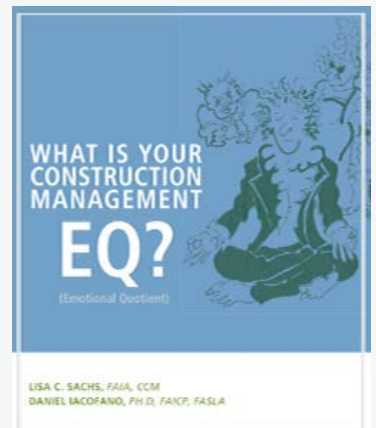
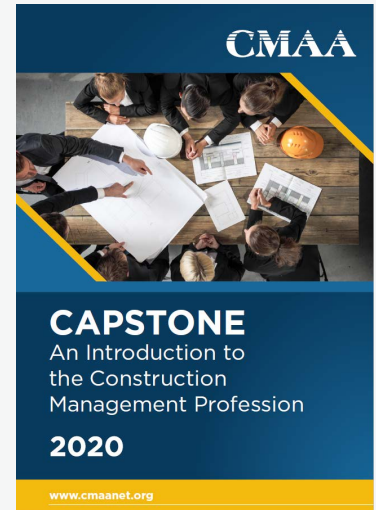
- Distinguish and explain construction management and review the responsibilities of CMs within the project scope
- Identify the factors controlled by the specialized management technique and describe the use techniques to plan, coordinate, monitor, and control a construction project.
- Understand the 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.

CREDIT FOR PROFESSIONAL DEVELOPMENT



CMAA provides professional development credit for those who complete The Principles of Construction Management Course™. In order to meet the varied formats for reporting mandated education requirements to licensing boards, credits are identified as Professional Development Hours (PDH) and Learning Units (LU). CMAA is registered with the American Institute of Architects (AIA) and the National Council of Examiners for Engineering and Surveying (NCEES) as an approved provider. Course participants earn 8 PDHs. LUs are available for registered architects. All AIA reports and 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.

The course is based on and includes following publications:



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

Contract Administration

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

Qualities of a CM

- Emotional Intelligence & Awareness
- Communication
- Communication Styles
- Communication in Conflict
- Leadership
- Ethics

Construction Managers

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

Projects

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

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

