Advanced Construction Project Management (CCM) Training Course

21 - 25 Dec 2026

Cairo

3700 € (Per Person)

Ref: #PRM4503_280341

Course Introduction / Overview:

This intensive course provides a comprehensive exploration of the principles and practices of modern construction management. It is designed to equip professionals with the advanced skills needed to lead complex construction projects from inception to completion. The curriculum delves into the entire construction project lifecycle, covering critical areas such as cost control, scheduling, risk management, quality assurance, and safety protocols. Drawing upon established industry standards and forward-thinking methodologies, the program integrates key concepts from influential works like "Construction Management" by Daniel W. Halpin. Participants will gain insights into the strategic frameworks advocated by leading academics such as Dr. Paul S. Chinowsky, focusing on enhancing project efficiency and stakeholder value. At BIG BEN Training Center, we have structured this course to bridge the gap between theoretical knowledge and practical application, ensuring that delegates can immediately implement learned techniques to improve project outcomes, manage resources effectively, and navigate the dynamic challenges of the global construction industry. This program is the definitive step for professionals aiming to achieve excellence and leadership in construction management.

Target Audience / This training course is suitable for:

- Construction Project Managers.
- Project Engineers and Civil Engineers.
- Site Managers and Supervisors.
- Construction Planners and Schedulers.
- Cost Estimators and Quantity Surveyors.
- Contract Administrators and Managers.
- Architects and Design Managers.
- Aspiring Construction Managers.
- Procurement and Supply Chain Managers in construction.
- Real Estate Developers.

Target Sectors and Industries:

- Commercial and Residential Real Estate Development.
- Heavy Civil and Infrastructure Projects.
- Industrial and Manufacturing Construction.
- Oil, Gas, and Energy Sector Projects.
- Governmental and Public Sector Works Agencies.
- Healthcare and Institutional Facility Construction.
- Consulting Engineering and Project Management Firms.
- Telecommunications and Utilities Infrastructure.
- Environmental and Sustainable Construction.

Target Organizations Departments:

- Project Management Office (PMO).
- Engineering and Design Departments.
- Construction and Site Operations.
- Planning and Scheduling Departments.
- Contracts and Procurement.
- Finance and Cost Control.
- Health, Safety, and Environment (HSE).
- Quality Assurance and Quality Control (QA/QC).
- Capital Projects and Development.

Course Offerings:

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

- Master the complete construction project lifecycle from initiation to closeout.
- Develop and implement robust project plans, schedules, and budgets.
- Apply advanced risk management techniques to identify and mitigate project threats.
- Execute effective cost control and financial management strategies.
- Administer complex construction contracts and manage claims effectively.
- Lead and motivate multidisciplinary project teams to achieve peak performance.
- Implement comprehensive quality and safety management systems on site.
- Utilize modern construction technologies and software to enhance project delivery.
- Navigate the legal and ethical responsibilities of a construction manager.
- Manage stakeholder communications and relationships for project success.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and centered on practical application. We believe that adult learning is most effective when participants are actively involved in the process. Therefore, this course moves beyond traditional lectures to incorporate a dynamic blend of learning techniques. A significant portion of the training will be dedicated to analyzing real-world case studies, allowing participants to dissect complex project scenarios and develop strategic solutions. Collaborative group exercises and team-based workshops will foster peer-to-peer learning and enhance problem-solving skills. Interactive sessions, facilitated discussions, and brainstorming activities will encourage the open exchange of ideas and experiences. Participants will receive continuous, constructive feedback from the instructor and peers to refine their understanding and skills. The course emphasizes a hands-on approach, ensuring that the theoretical concepts are firmly grounded in the practical realities of the construction industry, empowering delegates to apply their new knowledge confidently in their professional roles.

Course Agenda (Course Units):

Unit One: The Foundations of Professional Construction Management

- The Role and Responsibilities of a Certified Construction Manager (CCM).
- Understanding the Construction Project Lifecycle.
- Key Project Stakeholders and Their Interests.
- Overview of Project Delivery Methods (DBB, DB, CMAR).
- Principles of Construction Project Planning.
- Introduction to Construction Law and Ethics.
- Professional Practice and Industry Standards.

Unit Two: Pre-Construction Planning and Project Initiation

- Developing a Comprehensive Project Execution Plan (PEP).
- Advanced Cost Estimation and Budgeting Techniques.
- Critical Path Method (CPM) for Project Scheduling.
- Resource Allocation and Management.
- Construction Risk Identification and Qualitative Analysis.
- Procurement Strategies and Supply Chain Management.
- Value Engineering and Constructability Reviews.

Unit Three: On-Site Execution and Project Controls

- Effective Construction Site Management and Logistics.
- Implementing a Project Quality Management System.
- Construction Safety Management and OSHA Compliance.
- Monitoring and Controlling Project Progress.
- Earned Value Management (EVM) for Performance Measurement.
- Project Documentation and Information Management.
- Managing Subcontractors and Suppliers.

Unit Four: Contract Administration and Financial Oversight

- Fundamentals of Construction Contract Law.
- Administering Different Types of Construction Contracts.
- Change Order and Claims Management.
- Dispute Resolution and Negotiation Techniques.
- Construction Financial Management and Cash Flow Analysis.
- Invoicing, Payment Processes, and Lien Laws.
- Legal Aspects of Project Management.

Unit Five: Advanced Leadership and Project Closeout Strategies

- Leadership and Communication Skills for Construction Managers.
- Building and Managing High-Performance Project Teams.
- Introduction to Lean Construction Principles.
- The Role of Building Information Modeling (BIM) in Modern Construction.
- Sustainable Construction and Green Building Practices.
- Systematic Project Closeout Procedures.
- Final Project Reporting and Lessons Learned.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How might the integration of artificial intelligence and predictive analytics fundamentally reshape risk management and decision-making for the next generation of construction managers?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by offering a holistic and strategic perspective on construction management, moving beyond the mere mechanics of project execution. While many programs focus narrowly on technical skills, this training integrates advanced leadership principles, ethical considerations, and forward-looking industry trends into a cohesive curriculum. We emphasize the development of strategic decision-making capabilities, enabling participants to not only manage projects but to lead them with vision and foresight. The content is deeply rooted in academic rigor yet is delivered through a lens of practical, real-world application, using case studies that reflect the complex, multifaceted challenges managers face today. Rather than just teaching how to use tools, we focus on cultivating the critical thinking required to select and apply the right strategies for unique project contexts. The curriculum is designed to foster a deep understanding of the interconnectedness of cost, schedule, quality, safety, and stakeholder satisfaction, preparing participants to deliver not just completed projects, but true value and excellence in a competitive global market.