Professional Construction Project Management (CCPM) Training Course



19 - 23 Oct 2026

Cape town

4600 € (Per Person)

Ref: #CON5806_271846

Course Introduction / Overview:

The construction industry is a dynamic and complex field where effective project management is the cornerstone of success. This course provides a comprehensive A to Z framework for mastering the principles and practices of modern construction project management. It is designed to equip participants with the critical skills needed to lead projects from inception to completion, ensuring they are delivered on time, within budget, and to the highest quality standards. Drawing upon established methodologies and contemporary best practices, the curriculum delves into the entire project lifecycle. We will explore concepts championed by leading academics like Frederick E. Gould, co-author of the seminal text "Construction Project Management," which serves as a foundational guide for professionals worldwide. Participants will learn to navigate the intricate web of scheduling, cost control, risk management, and stakeholder communication. At BIG BEN Training Center, we are committed to transforming participants into proficient leaders capable of overcoming the unique challenges of the construction sector and driving project success through strategic planning and flawless execution.

Target Audience / This training course is suitable for:

- Project Managers and Assistant Project Managers.
- Construction Managers and Site Superintendents.
- Civil Engineers and Architects.
- Project Engineers and Field Engineers.
- Quantity Surveyors and Cost Estimators.
- Contract Administrators and Procurement Specialists.
- Professionals aspiring to a career in construction project management.
- Team Leaders and Supervisors in the construction industry.

Target Sectors and Industries:

- Commercial and Residential Real Estate Development.
- Heavy Civil and Infrastructure Projects.
- Industrial and Manufacturing Construction.
- Oil and Gas Sector Projects.
- Renewable Energy and Utilities.
- Governmental bodies and Public Works Agencies.
- Consulting and Engineering Firms.

Target Organizations Departments:

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

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 comprehensive project execution plans.
- Apply advanced scheduling and time management techniques like the Critical Path Method (CPM).
- Execute precise cost estimation, budgeting, and financial control strategies.
- Identify, assess, and mitigate project risks effectively.
- Manage construction contracts, claims, and procurement processes.
- Implement robust quality control and safety management systems on site.
- Lead project teams and manage stakeholder communications with confidence.
- Utilize modern tools and technologies like Building Information Modeling (BIM) concepts.
- Oversee project closeout, handover, and post-completion procedures.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, moving beyond traditional lecture-based learning. We believe in an experiential approach where participants learn by doing. The course is built around a series of real-world construction project case studies, allowing attendees to analyze complex scenarios, debate solutions, and apply theoretical concepts to tangible problems. Interactive sessions, facilitated discussions, and group workshops encourage collaborative problem-solving and knowledge sharing among peers. Participants will engage in practical exercises such as developing a Work Breakdown Structure (WBS), creating a project schedule, and conducting a risk assessment. Our expert instructors provide continuous guidance and personalized feedback to ensure a deep understanding of the material. This blended learning environment ensures that participants not only grasp the principles of construction project management but also develop the confidence and competence to apply these skills directly to their work environments upon completion of the course.

Course Agenda (Course Units):

Unit One: Foundations of Construction Project Management

- Introduction to the Construction Industry and its Challenges.
- The Role and Responsibilities of a Construction Project Manager.
- Understanding the Project Management Lifecycle in Construction.
- Key Project Stakeholders and their Interests.
- Defining Project Scope, Goals, and Success Criteria.
- Introduction to Project Management Body of Knowledge (PMBOK) for Construction.
- Ethical Considerations and Professional Conduct in Construction.

Unit Two: Project Planning and Scheduling

- Developing the Work Breakdown Structure (WBS) for Construction Projects.
- Activity Sequencing and Network Diagrams (AON).
- Critical Path Method (CPM) for Scheduling.
- Resource Planning and Allocation.
- Advanced Scheduling Techniques and Float Management.
- Introduction to Project Management Software for Scheduling.
- Creating a Baseline Project Schedule and Communication Plan.

Unit Three: Cost Management and Contract Administration

- Techniques for Accurate Construction Cost Estimation.
- Developing a Detailed Project Budget and Cost Baseline.
- Cost Control, Variance Analysis, and Earned Value Management (EVM).
- Understanding Different Types of Construction Contracts.
- Contract Negotiation and Administration Processes.
- Managing Change Orders and Claims.
- Procurement and Materials Management Strategies.

Unit Four: Quality, Safety, and Risk Management

- Implementing a Construction Quality Management Plan (CQMP).
- Quality Assurance (QA) vs. Quality Control (QC).
- Health, Safety, and Environment (HSE) Management Systems.
- OSHA Standards and Site Safety Protocols.
- Project Risk Identification and Qualitative Analysis.
- Quantitative Risk Analysis and Response Planning.
- Developing and Implementing a Risk Mitigation Strategy.

Unit Five: Project Execution, Monitoring, and Closeout

- Effective Site Management and Logistics Coordination.
- Leading and Motivating Construction Teams.
- Monitoring Project Progress and Performance Reporting.
- Stakeholder Communication and Conflict Resolution.
- Introduction to Building Information Modeling (BIM) in Execution.
- Project Commissioning, Handover, and Client Acceptance.
- Finalizing Documentation, Financials, and Lessons Learned for Project Closeout.

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 emerging technologies like AI and robotics fundamentally reshape the traditional roles and responsibilities of a construction project manager in the next decade?

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

This course distinguishes itself by offering a holistic and pragmatic curriculum that bridges the gap between theoretical knowledge and real-world application. Unlike programs that focus narrowly on software or certification exam preparation, our approach is centered on developing well-rounded construction leaders. We emphasize the integration of technical competencies, such as advanced scheduling and Earned Value Management, with the critical soft skills of leadership, negotiation, and stakeholder engagement, which are often the true determinants of project success. The curriculum is built upon a foundation of practical case studies drawn from diverse construction projects, including infrastructure, commercial, and industrial sectors. This allows participants to grapple with realistic challenges and develop versatile problem-solving skills. Furthermore, the course content is continuously updated to reflect modern industry trends, including sustainable building practices, lean construction principles, and the digital transformation driven by Building Information Modeling (BIM), ensuring our participants are prepared not just for today's challenges, but for the future of the construction industry.