Advanced Construction Project and Site Management Training Course



21 - 25 Dec 2026

Barcelona

5900 € (Per Person)

Ref: #PMP9437_122589

Course Introduction / Overview:

This comprehensive course provides an in-depth exploration of the principles and practices essential for successfully managing construction projects from inception to completion. It is designed to bridge the gap between theoretical project management frameworks and the practical realities of on-site administration. As detailed in seminal works like "Construction Project Management" by Frederick E. Gould, the field requires a dual focus on strategic planning and hands-on execution. This program, offered by BIG BEN Training Center, delves into the entire construction project lifecycle, covering critical areas such as project planning, detailed scheduling, cost control, and robust quality management. Participants will gain a thorough understanding of risk management in construction projects, contract administration, and effective subcontractor management. The curriculum emphasizes the development of leadership skills needed to navigate complex site logistics, enforce stringent safety protocols, and maintain clear stakeholder communication. By integrating proven methodologies with modern construction technology trends, this course equips professionals with the tools and knowledge to deliver projects on time, within budget, and to the highest standards of quality and safety, ensuring operational excellence and enhanced project outcomes.

Target Audience / This training course is suitable for:

- Construction Project Managers.
- Site Managers and Superintendents.
- Project Engineers and Site Engineers.
- Construction Coordinators and Supervisors.
- Contracts Administrators and Managers.
- Quantity Surveyors.
- Architects and Design Professionals moving into management roles.
- Junior Project Managers in the construction industry.
- Real Estate Developers.
- Public Works Project Leaders.

Target Sectors and Industries:

- Residential and Commercial Construction.
- Industrial and Infrastructure Development.
- Real Estate and Property Development.
- Oil and Gas Engineering Projects.
- Civil Engineering and Heavy Construction.
- Governmental bodies and Public Works agencies.
- Consulting Engineering Firms.
- Specialty Trade Contracting.
- Utilities and Energy Sector.

Target Organizations Departments:

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

Course Offerings:

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

- Develop a comprehensive construction project plan covering scope, time, and cost.
- Master advanced scheduling techniques using critical path methods and resource allocation.
- Implement effective cost estimation and control systems to manage project budgets.
- Administer construction contracts and manage subcontractor relationships effectively.
- Establish and oversee rigorous site safety management programs.
- Apply quality management principles to ensure project specifications are met.
- Manage construction documentation and progress reporting with precision.
- Identify, assess, and mitigate risks specific to construction projects.
- Lead construction teams and facilitate clear stakeholder communication.
- Coordinate site logistics, including materials management and equipment utilization.
- Execute a structured project closeout process for successful handover.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and engaging, ensuring that participants can immediately apply their learning to real-world scenarios. This course moves beyond traditional lectures by incorporating a blended learning approach that includes detailed case studies of actual construction projects, allowing for in-depth analysis of successes and failures. A significant portion of the training is dedicated to collaborative group workshops and team-based problem-solving exercises, which simulate the challenges of managing a dynamic construction site. Participants will engage in role-playing activities focused on negotiation, conflict resolution, and stakeholder communication. Interactive sessions, facilitated by experienced industry professionals, encourage open discussion and knowledge sharing among peers. Continuous feedback is provided throughout the course to foster skill development. This hands-on, participant-centered approach ensures a deep and practical understanding of construction project management and site administration, empowering attendees with both the knowledge and the confidence to excel in their roles.

Course Agenda (Course Units):

Unit One: Foundations of Construction Project Management

- Introduction to the construction industry and project environment.
- The complete construction project lifecycle from concept to closeout.
- Key roles and responsibilities of the project manager and site administrator.
- Understanding project delivery methods (e.g., Design-Bid-Build, Design-Build).
- Core principles of project scope management and work breakdown structure (WBS).
- Introduction to construction contracts and legal fundamentals.
- Ethical considerations and professional responsibility in construction.

Unit Two: Project Planning, Scheduling, and Resource Management

- Developing the detailed construction project plan.
- Techniques for accurate construction cost estimation.
- Mastering project scheduling with Gantt charts and network diagrams.
- The Critical Path Method (CPM) for schedule optimization.
- Effective construction resource allocation and management.
- Planning for materials procurement and supply chain logistics.
- Integrating technology in the planning and scheduling process.

Unit Three: Cost Control, Quality Assurance, and Contract Administration

- Implementing robust project cost control and financial management systems.
- Managing change orders and claims in construction projects.
- Principles of construction quality management (QA/QC).
- Conducting site inspections and quality control checks.
- Fundamentals of contract administration and management.
- Strategies for effective subcontractor and vendor management.
- Understanding payment applications and lien waivers.

Unit Four: Effective Site Administration and Safety Management

- Organizing the construction site and managing logistics.
- Developing and implementing a comprehensive site safety plan.
- Compliance with health and safety regulations and standards.
- Managing construction documentation, records, and reporting.
- Leading and motivating construction teams and site personnel.
- Effective communication and coordination on the construction site.
- Techniques for improving site productivity and efficiency.

Unit Five: Risk, Stakeholders, and Project Closeout

- Identifying and analyzing risks in construction projects.
- Developing risk response and mitigation strategies.
- Managing stakeholder expectations and communication.
- Conflict resolution techniques for construction disputes.
- Introduction to lean construction principles and sustainable practices.
- The formal project closeout and handover process.
- Final project reporting and lessons learned documentation.

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 can lean construction principles be adapted to mitigate the increasing volatility of material costs and supply chain disruptions in modern projects?

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

This course distinguishes itself by offering a deeply integrated curriculum that seamlessly connects high-level project management theory with the granular, day-to-day realities of site administration. Unlike programs that treat these as separate disciplines, this training emphasizes their interdependence, providing a holistic perspective essential for modern construction leaders. The content is built around a framework of practical application, moving beyond textbook knowledge to focus on complex, real-world case studies that challenge participants to devise solutions for authentic industry problems. Furthermore, the course places a significant emphasis on developing critical soft skills, such as leadership, negotiation, and conflict resolution, which are often overlooked but are paramount to project success. Rather than just teaching how to use software or tools, it cultivates a strategic mindset. The insights provided are grounded in contemporary challenges, including supply chain volatility, sustainable construction practices, and the integration of new technologies, ensuring the learning is not only relevant but also forward-looking. This approach equips participants with a versatile and robust skill set to navigate the complexities of any construction environment with confidence and strategic foresight.