Construction Project Management for Mega Projects Training Course



19 - 23 Oct 2026

Casablanca

4500 € (Per Person)

Ref: #PMP8573_269377

Course Introduction / Overview:

Mega construction projects are monumental undertakings characterized by immense scale, complexity, and significant economic and social impact. Managing them requires a specialized skill set that goes far beyond traditional project management principles. This course provides a comprehensive framework for navigating the unique challenges of mega projects, from initial feasibility studies to final commissioning and handover. Drawing upon the foundational concepts articulated by experts like Dr. Peter W. G. Morris in works such as "The Management of Projects", this program delves into the strategic intricacies of stakeholder management, advanced risk mitigation, and complex financial controls. Participants will explore the entire project lifecycle, learning to master the sophisticated planning, scheduling, and procurement strategies essential for success. At BIG BEN Training Center, we have designed this training to equip professionals with the leadership acumen and technical proficiency needed to deliver these high-stakes projects on time, within budget, and to the required quality standards, ultimately shaping the skylines and infrastructure of the future. This course is an intensive journey into the world of large-scale construction, blending proven methodologies with innovative approaches to solve the most demanding project management problems.

Target Audience / This training course is suitable for:

- Project Directors.
- Senior Project Managers.
- Construction Managers.
- Program Managers.
- Civil Engineers and Lead Engineers.
- Project Management Office (PMO) Managers.
- Contract Managers and Administrators.
- Senior Planners and Cost Control Engineers.
- Operations Managers involved in large-scale projects.
- Government officials overseeing public infrastructure projects.

Target Sectors and Industries:

- Real Estate and Property Development.
- Heavy Infrastructure and Civil Engineering.
- Oil, Gas, and Petrochemical Industries.
- Energy and Power Generation, including Renewables.
- Mining and Natural Resource Extraction.
- Transportation, including Airports, Ports, and Railways.
- Governmental bodies and Public Works agencies.
- Large-Scale Manufacturing and Industrial Plant Construction.

Target Organizations Departments:

- Project Management Office (PMO).
- Engineering and Design Departments.
- Construction and Site Operations.
- Planning and Project Controls.
- Procurement and Supply Chain Management.
- Contracts and Legal Departments.
- Finance and Budgeting Departments.
- Health, Safety, and Environment (HSE) Departments.
- Quality Assurance and Quality Control (QA/QC).

Course Offerings:

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

- Develop a strategic project execution plan tailored to mega construction projects.
- Implement advanced risk identification, analysis, and mitigation techniques.
- Master complex cost estimation, budgeting, and financial control systems.
- Lead and manage diverse, multi-disciplinary teams across the project lifecycle.
- Navigate intricate contract negotiations and procurement strategies.
- Effectively manage a wide range of internal and external stakeholders.
- Apply sophisticated scheduling and resource allocation methods for large-scale works.
- Integrate quality assurance and safety protocols into every phase of the project.
- Oversee the project closeout, handover, and post-completion review processes.
- Utilize modern construction technologies and digital tools for enhanced project control.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, immersive, and practical, ensuring that participants can immediately apply their learning to real-world scenarios. We move beyond theoretical lectures to a dynamic learning environment built on a foundation of case studies from iconic global mega projects. Participants will dissect the successes and failures of these projects, engaging in group discussions and collaborative problem-solving exercises to understand the complex decision-making processes involved. The course incorporates hands-on workshops focused on critical skills such as risk assessment, critical path scheduling, and budget forecasting. Interactive sessions, facilitated by experienced industry experts, encourage active participation and knowledge sharing among peers. Role-playing scenarios for stakeholder negotiations and dispute resolution will provide a safe space to practice and refine communication and leadership skills. Continuous feedback is a core component of our approach, with structured reviews and Q&A sessions ensuring that all concepts are thoroughly understood. This blended learning model guarantees a rich, engaging, and impactful educational experience.

Course Agenda (Course Units):

Unit One: Foundations of Mega Construction Project Management

- Defining mega projects and their unique characteristics.
- The mega project lifecycle from concept to commissioning.
- Key challenges and critical success factors in mega projects.
- Introduction to project governance and organizational structures.
- Identifying and analyzing key project stakeholders.
- The role of the Project Management Office (PMO) in mega projects.
- Understanding the economic, social, and environmental impact.

Unit Two: Strategic Planning and Advanced Scheduling

- Developing the Project Execution Plan (PEP).
- Advanced Work Breakdown Structure (WBS) for complex scopes.
- Critical Path Method (CPM) and advanced scheduling techniques.
- Resource planning, allocation, and leveling strategies.
- Integrating Building Information Modeling (BIM) in project planning.
- Scope management and change control procedures.
- Milestone planning and developing the master schedule.

Unit Three: Financial Control and Integrated Risk Management

- Advanced cost estimation techniques for large-scale projects.
- Developing and managing the master project budget.
- Earned Value Management (EVM) for performance measurement.
- Contingency planning and management reserve.
- A systematic process for risk identification and qualification.
- Quantitative and qualitative risk analysis methods.
- Developing risk response and mitigation strategies.

Unit Four: Contracts, Procurement, and Stakeholder Engagement

- Procurement strategies and supply chain management for mega projects.
- Types of construction contracts and their applications.
- The principles of contract negotiation and administration.
- Managing claims and resolving disputes effectively.
- Developing a comprehensive stakeholder engagement plan.
- Communication strategies for diverse project stakeholders.
- Managing public relations and community impact.

Unit Five: Execution, Monitoring, and Project Closeout

- Leading and managing large, multi-disciplinary project teams.
- Implementing robust site management and logistics plans.
- Quality Assurance (QA) and Quality Control (QC) systems.
- Establishing a world-class Health, Safety, and Environment (HSE) culture.
- Project monitoring, control, and performance reporting.
- Managing project handover and commissioning processes.
- Conducting post-project reviews and documenting 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 can project managers balance the competing demands of economic viability, environmental sustainability, and social responsibility in the execution of a mega construction project?

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

This training course distinguishes itself by focusing exclusively on the unique ecosystem of mega construction projects, moving beyond generic project management principles to address the exceptional scale, complexity, and risk inherent in these ventures. While many courses provide a general overview, this program offers a deep dive into the strategic challenges that define multi-billion-dollar initiatives. Our curriculum is built around an extensive library of real-world case studies, allowing participants to analyze the strategic decisions behind iconic structures and infrastructure, learning directly from both monumental successes and instructive failures. The emphasis is not merely on tools and techniques but on developing the strategic leadership and decision-making acumen required to navigate the intricate web of stakeholders, from government bodies to local communities. The course cultivates a holistic understanding of mega project dynamics, integrating advanced financial controls, complex contract law, and sophisticated risk modeling into a cohesive management framework. It is this specialized focus on the strategic, rather than purely operational, aspects of managing immense complexity that provides participants with a distinct and unparalleled professional advantage.