# Comprehensive Project Planning and Execution Control Training Course



26 - 30 Oct 2026

Cairo

3700 € (Per Person)

Ref: #PRM8578_280399

## Course Introduction / Overview:

This intensive training course provides a comprehensive framework for mastering the critical disciplines of project planning, scheduling, and control. In today's competitive landscape, the ability to deliver projects on time, within budget, and to the required quality standards is paramount. This program moves beyond theoretical concepts to provide practical, actionable strategies that can be immediately applied in the workplace. Drawing upon established principles, such as those detailed by Harold Kerzner in his seminal work, "Project Management: A Systems Approach to Planning, Scheduling, and Controlling", participants will explore the entire project lifecycle. From initial scope definition and creating a robust Work Breakdown Structure (WBS) to advanced scheduling with PERT/CPM and implementing rigorous control systems using Earned Value Management (EVM), this course covers it all. BIG BEN Training Center has designed this curriculum to empower professionals with the skills to anticipate challenges, manage resources effectively, mitigate risks proactively, and lead projects to successful completion. This is not just a course on project management tools; it is a deep dive into the strategic thinking and systematic processes that define successful project execution and delivery.

## Target Audience / This training course is suitable for:

- Project Managers and Project Leaders.
- Program Managers and Portfolio Managers.
- Project Coordinators and Project Administrators.
- Team Leads and Supervisors.
- Operations Managers.
- Engineers and Technical Professionals.
- Business Analysts and System Analysts.
- Project Management Office (PMO) staff.
- Professionals aspiring to a career in project management.
- Functional managers with project responsibilities.

## Target Sectors and Industries:

- Construction and Engineering.
- Information Technology and Telecommunications.
- Manufacturing and Industrial.
- Healthcare and Pharmaceuticals.
- Banking, Finance, and Insurance.
- Oil and Gas.
- Governmental agencies and public sector organizations.
- Consulting and Professional Services.
- Aerospace and Defense.
- Retail and Logistics.

## Target Organizations Departments:

- Project Management Office (PMO).
- Operations and Production.
- Engineering and Technical Services.
- Information Technology (IT).
- Research and Development (R&D).
- Finance and Accounting.
- Strategic Planning.
- Marketing and Sales.
- Human Resources.
- Quality Assurance and Control.

## Course Offerings:

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

- Develop a comprehensive and realistic project plan from initiation to closure.
- Master the creation of a Work Breakdown Structure (WBS) to define project scope accurately.
- Apply advanced scheduling techniques, including Critical Path Method (CPM) and PERT.
- Create and manage detailed project budgets and perform accurate cost estimations.
- Implement robust project control systems to monitor and manage performance.
- Utilize Earned Value Management (EVM) to track project health and forecast outcomes.
- Identify, analyze, and develop response strategies for project risks.
- Manage project stakeholders and communication effectively throughout the project lifecycle.
- Implement formal change control procedures to manage scope creep.
- Conduct a thorough project closure, including documenting lessons learned.

## Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can translate learned concepts into real-world capabilities. This course rejects a purely lecture-based format in favor of a blended learning experience that emphasizes active participation. The curriculum is delivered through a combination of expert-led presentations, in-depth discussions, and hands-on workshops. A cornerstone of our approach is the extensive use of case studies drawn from various industries, allowing participants to analyze complex scenarios and debate potential solutions. Group exercises and team-based project simulations will challenge attendees to collaborate on planning, scheduling, and controlling a project from start to finish, fostering practical skills in a controlled environment. Regular feedback sessions with the instructor provide personalized guidance and help reinforce key learning points. This immersive and applied learning environment ensures that participants leave not just with knowledge, but with the confidence and competence to manage complex projects successfully.

## Course Agenda (Course Units):

### Unit One: The Foundation of Strategic Project Planning

- The project management framework and lifecycle phases.
- Defining project objectives, deliverables, and success criteria.
- Developing a detailed project charter and scope statement.
- Stakeholder identification, analysis, and management planning.
- Creating the Work Breakdown Structure (WBS) and WBS dictionary.
- Techniques for gathering and documenting project requirements.
- Establishing the project governance structure.

### Unit Two: Advanced Scheduling and Resource Management

- Understanding network diagrams and precedence diagramming method (PDM).
- Calculating the critical path using the Critical Path Method (CPM).
- Program Evaluation and Review Technique (PERT) for estimating in uncertainty.
- Developing realistic project schedules using Gantt charts.
- Techniques for schedule compression: crashing and fast-tracking.
- Resource planning, estimation, and allocation.
- Resource leveling and smoothing to resolve overallocations.

### Unit Three: Project Cost and Quality Management

- Principles of project cost management.
- Cost estimation techniques: analogous, parametric, and bottom-up.
- Developing the project budget and the cost performance baseline.
- Fundamentals of project quality management.
- Quality planning: defining standards and metrics.
- Quality assurance processes and continuous improvement.
- Quality control tools and techniques for monitoring results.

## Unit Four: Integrated Project Control and Risk Management

- The integrated change control process.
- Introduction to Earned Value Management (EVM).
- Calculating key EVM metrics: PV, EV, AC, SPI, and CPI.
- Forecasting project performance using EAC and ETC.
- The project risk management framework.
- Qualitative and quantitative risk analysis techniques.
- Developing risk response strategies for threats and opportunities.

## Unit Five: Project Execution, Monitoring, and Closure

- Executing the project plan and managing the project team.
- Effective project communication and reporting strategies.
- Monitoring and controlling project work against the baseline.
- Managing stakeholder engagement and expectations.
- Formal project closure procedures.
- Validating scope and gaining final acceptance.
- Documenting lessons learned and archiving project records.

# 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:

In an era of rapid technological change and agile methodologies, how can traditional project control systems remain relevant and effective?

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

This course distinguishes itself by offering a holistic and integrated perspective on project management, treating planning, scheduling, and control not as separate functions but as interconnected disciplines essential for success. While many courses focus narrowly on software tools or a single methodology, our curriculum emphasizes the development of strategic thinking and a systematic approach applicable across any industry or project type. We delve deep into the "why" behind the "how," ensuring participants understand the principles that underpin effective project execution. The learning is heavily rooted in practical application, utilizing real-world case studies and complex simulations that challenge participants to make critical decisions under pressure. This focus on experiential learning bridges the gap between theory and practice, empowering attendees with a versatile skill set. The course content is continuously updated to reflect current best practices, including the integration of concepts like Earned Value Management (EVM) and sophisticated risk analysis, ensuring participants leave with relevant, high-impact knowledge that provides a tangible competitive advantage in their professional roles.