Telecom Project Management and Infrastructure Rollout Training Course



26 - 30 Oct 2026

Cairo

3700 € (Per Person)

Ref: #TEL3677_285523

Course Introduction / Overview:

The telecommunications sector is the backbone of the modern digital economy, characterized by rapid technological evolution and massive capital investment in infrastructure. This course provides a comprehensive framework for managing complex telecom projects, from initial conception to final rollout and handover. It delves into the unique challenges of network deployment, including 5G network deployment, fiber optic rollout, and wireless network expansion. Participants will explore the entire project lifecycle, guided by principles from established project management methodologies and insights from leading experts like Harold Kerzner, author of "Project Management: A Systems Approach to Planning, Scheduling, and Controlling". This program offered by BIG BEN Training Center is meticulously designed to bridge the gap between general project management theory and the specific, high-stakes environment of telecommunications. We will cover critical areas such as site acquisition, regulatory compliance, vendor management, and quality assurance, ensuring that project managers are equipped to deliver projects on time, within budget, and to the required technical specifications. The curriculum is structured to provide practical skills and strategic insights, enabling professionals to navigate the complexities of telecom infrastructure projects and drive successful outcomes in a competitive and fast-paced industry.

Target Audience / This training course is suitable for:

- Project Managers and Project Coordinators in the telecom sector.
- Network Engineers and Planners.
- Infrastructure Rollout Managers and Supervisors.
- Telecommunications Consultants.
- Site Acquisition Specialists.
- Regulatory and Compliance Officers.
- Technical Managers moving into project leadership roles.
- Procurement and Vendor Managers.
- Field Operations Managers.

Target Sectors and Industries:

- Telecommunications Service Providers (Mobile and Fixed-Line).
- Internet Service Providers (ISPs).
- Tower and Infrastructure Companies.
- Network Equipment Manufacturers.
- Engineering and Construction Firms specializing in telecom.
- Utility Companies with communication networks.
- Governmental and regulatory bodies overseeing telecommunications.
- Large enterprises managing their own network infrastructure.
- Data Center and Cloud Service Providers.

Target Organizations Departments:

- Project Management Office (PMO).
- Network Planning and Engineering.
- Network Operations and Deployment.
- Infrastructure and Civil Works.
- Procurement and Supply Chain Management.
- Regulatory Affairs and Legal.
- Quality Assurance and Control.
- Finance and Budgeting.
- Field Operations and Maintenance.

Course Offerings:

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

- Develop a comprehensive project plan for a telecom infrastructure rollout.
- Master the key phases of the telecom project lifecycle from initiation to closure.
- Effectively manage project scope, schedule, budget, and quality.
- Navigate the complexities of site acquisition, permitting, and right-of-way.
- Implement robust risk management and mitigation strategies specific to telecom projects.
- Manage vendors, contractors, and stakeholder communications effectively.
- Ensure adherence to industry standards and regulatory compliance.
- Oversee network testing, commissioning, and successful project handover.
- Apply best practices for managing 5G, FTTH, and wireless network deployments.
- Lead project teams and foster a culture of safety and efficiency.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and engaging, moving beyond theoretical lectures to foster real-world skills. This course utilizes a blended learning approach that combines expert-led instruction with hands-on activities. Participants will analyze detailed case studies of major telecom infrastructure projects, such as national fiber optic rollouts or urban 5G deployments, to understand challenges and successful strategies. Team-based workshops and group exercises will be central to the learning experience, allowing participants to collaborate on tasks like creating a project charter, developing a risk register, and simulating vendor negotiation scenarios. Interactive sessions, Q&A panels, and peer-to-peer discussions will encourage the sharing of experiences and solutions to common project hurdles. The instructor will provide continuous feedback and facilitate problem-solving clinics focused on participants' specific project challenges. This immersive and practical approach ensures that attendees not only grasp the concepts but can also confidently apply the learned techniques and best practices to their own projects immediately upon returning to the workplace.

Course Agenda (Course Units):

Unit One: Foundations of Telecom Project Management

- Introduction to the Telecommunications Industry and Ecosystem.
- Core Project Management Principles (PMBOK Guide Framework).
- The Unique Characteristics of Telecom Infrastructure Projects.
- Understanding the Complete Telecom Project Lifecycle.
- Key Stakeholders and Their Roles in Network Rollout.
- Introduction to Telecom Technologies (5G, FTTx, Wireless).
- Regulatory and Environmental Compliance Frameworks.

Unit Two: Project Initiation and Strategic Planning

- Defining Project Scope and Objectives for Network Deployment.
- Developing the Project Charter and Business Case.
- Detailed Network Planning and Design Considerations.
- Site Survey, Selection, and Acquisition Strategies.
- Budgeting, Cost Estimation, and Financial Planning (CAPEX/OPEX).
- Resource Planning and Team Formation.
- Developing a Comprehensive Project Management Plan.

Unit Three: Execution and Infrastructure Rollout

- Procurement, Tendering, and Vendor Management.
- Managing Contracts and Service Level Agreements (SLAs).
- Civil Works, Tower Construction, and Site Preparation.
- Equipment Installation, Configuration, and Integration.
- Managing Project Teams and Field Operations.
- Effective Communication and Stakeholder Engagement.
- Health and Safety Management on Telecom Sites.

Unit Four: Monitoring, Control, and Quality Assurance

- Tracking Project Progress Against Baselines (Schedule and Cost).
- Implementing Quality Control and Assurance Processes.
- Risk Identification, Analysis, and Mitigation Strategies.
- Change Control Management in Dynamic Projects.
- Network Testing, Commissioning, and Acceptance Procedures.
- Performance Reporting and Project Documentation.
- Resolving Conflicts and Overcoming Project Hurdles.

Unit Five: Project Closure and Future Trends

- The Project Handover Process to Network Operations.
- Finalizing Documentation and As-Built Drawings.
- Conducting Post-Project Reviews and Lessons Learned.
- Contract Closure and Final Payments to Vendors.
- Operations and Maintenance (O&M) Considerations.
- Emerging Trends: IoT, Smart Cities, and Network Virtualization.
- The Future of Telecom Project Management.

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:

As network technologies converge and demand for data skyrockets, how must traditional project management methodologies evolve to manage the complexity of next-generation infrastructure rollouts like city-wide IoT networks?

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

This course distinguishes itself by moving beyond generic project management theory to provide a specialized, in-depth focus on the telecommunications industry. Unlike general PMP preparation courses, every module, case study, and discussion is tailored to the specific challenges and nuances of infrastructure rollout, from the technicalities of site acquisition and regulatory hurdles to the complexities of managing multi-vendor ecosystems for 5G or FTTH deployments. The curriculum integrates both the "hard" skills of project planning, scheduling, and budgeting with the critical "soft" skills of stakeholder management and negotiation within a telecom context. Furthermore, the course is forward-looking, dedicating significant attention to the project management implications of emerging technologies like IoT, network virtualization, and smart city infrastructure. Participants gain not just a set of tools, but a strategic mindset, enabling them to anticipate future industry shifts and lead complex network deployment projects with greater confidence and foresight. The emphasis on practical application through real-world case studies ensures that the learning is directly transferable to the participant's professional environment, offering tangible value and a clear return on investment.