Critical Infrastructure Security Project Management Training Course



07 - 11 Dec 2026

Cape town

4600 € (Per Person)

Ref: #SM8727_253524

Course Introduction / Overview:

The security of critical infrastructure, including energy grids, transportation systems, and water treatment plants, is vital to national security and economic stability. This training course provides a comprehensive guide to managing security projects for these essential systems. We will cover the entire project lifecycle, from initial risk assessment and planning to implementation and post-project review. Participants will learn how to coordinate with multiple stakeholders, manage complex technical requirements, and ensure that security measures are effective and compliant. We will explore academic work by authors like Douglas J. Wankel, whose book Security Project Management: Managing the Business of Security provides a foundational framework for understanding the process. The curriculum is designed to equip professionals with the knowledge to lead security projects that protect critical assets from physical and cyber threats. The BIG BEN Training Center is committed to providing a program that moves beyond basic project management and focuses on the unique complexities of security. By the end of this course, participants will be able to manage a security project from A to Z, ensuring the resilience and integrity of critical infrastructure.

Target Audience / This training course is suitable for:

- Security project managers.
- Critical infrastructure managers.
- IT and cybersecurity professionals.
- Risk management and compliance officers.
- Engineers and technical consultants.
- Government agency personnel.
- Senior executives in critical sectors.

Target Sectors and Industries:

- Energy and utilities.
- Transportation and logistics.
- Telecommunications.
- Water and public works.
- Healthcare.
- Public safety and emergency services.
- Government agencies and their equivalents.

Target Organizations Departments:

- Security and Risk Management.
- Project Management Office (PMO).
- Information Technology (IT).
- Operations.
- Engineering.
- Legal and Compliance.
- Facilities Management.

Course Offerings:

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

- Plan and manage a critical infrastructure security project.
- Conduct a security risk assessment for essential systems.
- Coordinate a security project with multiple internal and external stakeholders.
- Understand the technical requirements for physical and cyber security.
- Develop a budget and timeline for a complex security project.
- Ensure project compliance with regulatory requirements.
- Use project management methodologies for security implementations.
- Conduct a post-project review and evaluate success.

Course Methodology:

This training course uses a blend of instructional and hands-on methods to make sure the content is engaging and practical for critical infrastructure professionals. The program begins with instructor-led sessions that provide a clear understanding of the core principles of security project management. A key component of our approach is the use of real-world case studies of successful and unsuccessful security projects in critical sectors. Participants will analyze these examples to understand the challenges and best practices. We also use interactive workshops and group exercises where participants work together to plan a mock security project for a critical infrastructure site. This collaborative learning model encourages teamwork and allows participants to practice their decision-making skills. Instructors at BIG BEN Training Center are experienced professionals who provide continuous feedback and guidance throughout the course. Our goal is to prepare professionals to face the complex challenges of modern security. By focusing on actionable knowledge and practical skills, we are making sure that every participant leaves the course ready to make a tangible impact on the security of their organization.

Course Agenda (Course Units):

Unit One: The Foundation of Critical Infrastructure Security.

- Understanding the threat landscape for critical infrastructure.
- The principles of security by design.
- The role of governance in security projects.
- The project lifecycle: from initiation to closure.
- The importance of a stakeholder analysis.

Unit Two: Risk Assessment and Planning.

- Conducting a critical infrastructure-specific risk assessment.
- Defining project scope, objectives, and deliverables.
- Developing a detailed project plan and timeline.
- The process of budgeting and resource allocation.
- The role of project management software.

Unit Three: Implementation and Execution.

- Leading a project team and managing external vendors.
- The basics of physical security technology.
- Implementing cybersecurity measures.
- Managing project risks and issues.
- The importance of communication and collaboration.

Unit Four: Monitoring and Control.

- The process of project monitoring and control.
- Measuring project performance and key performance indicators (KPIs).
- Quality assurance and testing.
- The role of change management.
- Ensuring project compliance with regulatory standards.

Unit Five: Project Closure and Post-Project Review.

- The process of project closure.
- Conducting a post-project review and lessons learned.
- The importance of documentation and knowledge transfer.
- The role of long-term maintenance and support.
- The future of security 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:

In a field where security needs are constantly evolving, how can a project manager make sure that the security measures they implement today remain relevant and effective against the threats of tomorrow?

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

This training course is unique because it combines the principles of project management with the specific challenges of critical infrastructure security. While many courses teach one or the other, our program bridges the gap between these two vital disciplines. It is not just about managing a project; it is about managing a project that protects essential systems from physical and cyber threats. The curriculum is designed to be highly practical, with a strong emphasis on hands-on simulations and real-world case studies. We move beyond a simple list of project management tools and show how to use them in the context of security. The course also places a strong emphasis on stakeholder management and compliance, which are critical for any security project in the public or private sector. BIG BEN Training Center is committed to providing a program that gives professionals the knowledge and skills they need to lead successful security projects that protect our most vital assets.