Strategic Security Management for the Energy and Utilities Sector Training Course



08 - 12 Nov 2026

Istanbul

4900 € (Per Person)

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Course Introduction / Overview:

The energy and utilities sectors are the backbone of modern society, but their critical infrastructure is also a prime target for a wide variety of threats, from physical sabotage to sophisticated cyberattacks. This training course provides a comprehensive and proactive approach to security management, designed to protect essential assets and ensure operational continuity. We will explore the unique challenges faced by the energy sector, including the security of power grids, oil and gas pipelines, and nuclear facilities. We will explore academic work by authors like David S. Jones, whose book The Vulnerability of Energy Systems provides an in-depth look at systemic risks. The program is designed to equip professionals with knowledge and tools to identify vulnerabilities, mitigate risks, and respond effectively to security incidents. BIG BEN Training Center is committed to providing a program that helps participants navigate the complex landscape of security, from physical protection of critical infrastructure to defending against cyber-physical threats. We will cover the essentials of regulatory compliance, risk assessment, and incident response planning. By the end of this course, participants will have a holistic understanding of how to build and manage a resilient security program that protects their organization and the communities it serves.

Target Audience / This training course is suitable for:

- Security and risk managers in energy.
- Operations and facility managers.
- Cybersecurity professionals.
- Compliance and regulatory affairs specialists.
- Emergency management coordinators.
- Engineers and technical staff.
- Senior executives and decision-makers.

Target Sectors and Industries:

- Oil and gas companies.
- Electric power generation and distribution.
- Renewable energy companies.
- Water and wastewater utilities.
- Nuclear power plants.
- Chemical and petrochemical industries.
- Government agencies and their equivalents.

Target Organizations Departments:

- Security and Corporate Security.
- Operations and Maintenance.
- Information Technology (IT) and Cybersecurity.
- Health, Safety, and Environment (HSE).
- Risk Management.
- Legal and Compliance.
- Emergency Management.

Course Offerings:

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

- Conduct a detailed security risk assessment for energy infrastructure.
- Develop and implement a comprehensive security management system.
- Protect critical assets from physical and cyber threats.
- Formulate an effective incident response and business continuity plan.
- Ensure compliance with national and international security standards.
- Use modern security technologies to enhance protection.
- Understand the geopolitical factors that influence energy security.
- Train staff on security awareness and protocols.

Course Methodology:

This training course uses a mix of instructional and hands-on methods to ensure participants get a practical and comprehensive education. The program begins with expert-led sessions that provide a clear understanding of the unique security challenges in the energy and utilities sector. A key part of our approach is the use of case studies of real-world security incidents. Participants will analyze these events to understand what happened and what lessons can be learned. We also use interactive workshops and group exercises, where participants can work together to solve complex security problems, like creating a security plan for a remote pipeline or responding to a simulated cyberattack on a power grid. This practical approach helps build confidence and collaborative skills. Instructors at BIG BEN Training Center are experienced professionals who provide continuous feedback to help refine each participant's knowledge and skills. Our goal is to prepare professionals to face the complex challenges of modern energy security. By focusing on practical, actionable knowledge, we are making sure that every participant leaves the course ready to make a tangible impact on their organization's security posture.

Course Agenda (Course Units):

Unit One: The Foundation of Energy Security.

- The unique threat landscape for energy and utilities.
- Understanding critical infrastructure security.
- Developing a security risk assessment framework.
- The relationship between physical and cyber security.
- The role of policies and governance in security management.

Unit Two: Physical Security of Energy Assets.

- Perimeter security and access control for facilities.
- Protecting pipelines, transmission lines, and substations.
- Surveillance technologies and remote monitoring.
- Insider threats and personnel security.
- Security protocols for on-site operations.

Unit Three: Cybersecurity in the Energy Sector.

- The convergence of IT and operational technology (OT) security.
- Protecting industrial control systems (ICS) and SCADA networks.
- Identifying and mitigating cyber threats, including state-sponsored attacks.
- Incident response planning for cyber events.
- Data privacy and information security.

Unit Four: Crisis and Emergency Management.

- Developing a comprehensive emergency response plan.
- Business continuity and disaster recovery.
- Crisis communication and media relations.
- Inter-agency collaboration and public-private partnerships.
- Post-incident analysis and reporting.

Unit Five: Regulatory Compliance and Future Trends.

- Navigating key security regulations, such as NERC CIP.
- The impact of climate change on infrastructure security.
- Emerging threats and technologies.
- The importance of physical-cyber security integration.
- Building a culture of security awareness.

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:

Given the increasing interdependence of physical and digital infrastructure in the energy sector, how can security professionals effectively bridge the gap between physical security and cybersecurity to create a truly unified defense strategy?

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

This training course is unique because it provides an integrated and holistic view of security for the energy and utilities sectors. While many courses focus on either physical security or cybersecurity, this program recognizes that the threats to critical infrastructure are often a combination of both. It's designed to help professionals develop a unified strategy that addresses physical sabotage, cyberattacks, and insider threats in a cohesive way. The course moves beyond theoretical concepts and uses a hands-on, case-study-based methodology, where participants work through real-world scenarios to develop practical skills they can use right away. We also place strong emphasis on regulatory compliance, which is critical in this highly regulated industry. BIG BEN Training Center is committed to providing a program that gives professionals the knowledge and skills to protect their organizations and the vital services they provide. By focusing on the unique and complex challenges of the energy sector, this course provides a level of depth and practicality that other generic security training programs simply do not.