

Managing Security Risk in the Power Sector

COURSE OVERVIEW

This course provides a comprehensive understanding of how to identify, assess, and manage security risks within the power sector, including energy infrastructure, power plants, substations, and grid systems. With growing threats such as cyberattacks, physical sabotage, insider threats, and supply chain disruptions, the course equips professionals with strategic tools to protect critical energy assets.

Delegates will explore risk management frameworks, incident response planning, regulatory compliance, and the integration of physical and cybersecurity measures to ensure resilient energy operations.

WHO SHOULD ATTEND?

This course is suitable for Security Managers, Risk Analysts, Energy Sector Professionals, Plant Managers, Compliance Officers, Facility Managers, Government Regulators, Engineers, and anyone responsible for security and operational continuity in power and energy utilities.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Identify major security threats and vulnerabilities in the power sector
- Apply risk assessment tools tailored to energy infrastructure
- Design and implement integrated physical and cyber risk mitigation plans
- Respond effectively to emergencies and security incidents
- Align security strategies with national and international regulations
- Strengthen organizational resilience and continuity of power operations

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Understanding threats: vandalism, cyberattacks, terrorism, insider risks
- Risk assessment models and threat analysis for critical infrastructure
- Building effective security frameworks and control mechanisms
- Cybersecurity measures for SCADA systems and power networks
- Physical security strategies for plants, substations, and field assets
- Regulatory compliance (e.g., NERC, ISO/IEC 27001, local power policies)
- Incident response planning, drills, and recovery protocols
- Case studies of security breaches and successful prevention models

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded