BLACKBIRD FOR TRAINING

Technical CCTV Design, Site Auditing, and Operations

15 – 19 February 2027
Kuala Lumpur (Malaysia)

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PARTNER

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Technical CCTV Design, Site Auditing, and Operations

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Introduction

Modern organizations increasingly depend on advanced surveillance technologies to enhance safety, protect assets, and support effective security management. Closed-Circuit Television CCTV systems have evolved into sophisticated platforms that require careful planning, professional design, systematic auditing, and efficient operational management.

The Technical CCTV Design, Site Auditing, and Operations program is designed to provide security professionals, engineers, and facility managers with the technical knowledge and practical skills needed to design, implement, and manage modern CCTV systems effectively. The course covers the complete lifecycle of surveillance systems—from understanding system components and technical design principles to evaluating camera placement, auditing existing installations, and managing control room operations.

Participants will also gain insight into regulatory requirements and compliance standards related to CCTV, including guidelines set by the Security Industry Regulatory Agency SIRA. Through hands-on exercises and real-world case studies, this program equips participants with the expertise to design reliable, compliant surveillance solutions that enhance organizational security and operational efficiency.

Course Objectives

By the end of the program, participants will be able to:

- Understand the technical components and architecture of modern CCTV and surveillance systems.
- Design CCTV systems based on security risk assessments and site-specific requirements.
- Perform professional site assessments and technical audits of CCTV installations.
- Evaluate camera coverage and identify vulnerabilities or blind spots.
- Manage the daily operations of surveillance control rooms and monitoring teams.
- Understand regulatory and legal compliance requirements for CCTV implementation.
- Prepare professional CCTV system design documentation and technical audit reports.

Course Outlines

Day 1 - Fundamentals of CCTV Systems 4 Hours

- Introduction to modern surveillance technologies.
- Components of a CCTV system.
- Types of cameras and imaging technologies.
- DVR and NVR recording systems.
- Differences between analog and IP-based digital systems.
- Image quality considerations and lighting requirements.

Day 2 - Technical Design of CCTV Systems 4 Hours

- Risk analysis and security assessment before design.
- Selecting camera types for different environments.
- Field of View FOV calculations.
- Lens selection and focal length considerations.
- Camera placement and facility coverage.
- Identifying and eliminating blind spots.

Day 3 - CCTV Site Auditing 4 Hours

- Professional methodology for CCTV system audits.
- Evaluating camera installation locations.
- Assessing surveillance coverage effectiveness.
- Identifying system vulnerabilities and design gaps.
- Preparing professional technical audit reports.

Day 4 - Daily Operations of Surveillance Systems 4 Hours

- Control room management and monitoring procedures.
- Standard operating procedures for surveillance teams.
- Incident detection and response procedures.
- Recording management and video archiving.
- Preventive maintenance of CCTV systems.

Day 5 - Regulatory Compliance and Practical Application 4 Hours

- CCTV design requirements according to SIRA.
- Legal considerations for camera installation and monitoring.
- Video storage policies and data protection considerations.
- Case study: designing a CCTV surveillance system.
- Practical exercise: CCTV system design and evaluation.

Why Attend This Course? Wins & Losses!

- Gain practical expertise in CCTV system design and surveillance technologies.
- Learn to perform professional site assessments and security audits.
- Improve management of control room operations and monitoring teams.
- Understand regulatory and compliance requirements for CCTV implementation.
- Develop technical skills to optimize coverage and reduce security risks.
- Enhance professional capabilities in designing and evaluating modern security systems.

Conclusion

The Technical CCTV Design, Site Auditing, and Operations program offers a comprehensive understanding of the technical, operational, and regulatory aspects of modern surveillance systems. By combining theoretical knowledge with practical exercises, participants gain the confidence and expertise to design, evaluate, and manage CCTV systems effectively.

Upon completion, participants will be equipped to analyze security requirements, implement efficient surveillance strategies, and ensure compliance with industry standards, ultimately strengthening organizational security and operational reliability.