



*Training Course:
CCTV Systems*

*24 August - 4 September 2025
Amman (Jordan)*

Training Course: CCTV Systems

Training Course code: MI1951 From: 24 August - 4 September 2025 Venue: Amman (Jordan) - Training Course Fees: 6000 € Euro

Introduction

Welcome to the Comprehensive CCTV System Operations and Maintenance Training Program! This program is designed to provide participants with a deep understanding of CCTV systems, advanced operational skills, effective maintenance techniques, troubleshooting strategies, and optimization practices. Whether you are a security professional, system integrator, or responsible for managing CCTV systems, this training program will equip you with the knowledge and skills to confidently handle complex CCTV configurations, address advanced issues, analyze video data, and ensure optimal system performance.

Methodologies

The training program combines theoretical sessions, practical exercises, hands-on lab work, and interactive discussions to ensure a comprehensive learning experience. Participants will have the opportunity to apply their knowledge in real-world scenarios and engage in practical exercises to reinforce the concepts learned. The training program emphasizes a practical and hands-on approach to enhance participants' ability to apply the acquired skills in their professional roles.

Objectives

- Develop a deep understanding of CCTV systems, including their components, features, and functionalities.
- Gain expertise in CCTV system installation, configuration, and integration with other security systems.
- Learn advanced video analytics techniques for post-event investigation and proactive surveillance.
- Acquire skills in troubleshooting complex CCTV system issues and performing advanced maintenance procedures.
- Enhance system performance optimization through advanced techniques and practices.
- Stay updated on emerging trends, technologies, and industry best practices in the field of CCTV systems.
- Foster continuous learning and professional development to excel in managing CCTV systems.

Target Audience

This training program is ideal for:

- Security professionals involved in the design, implementation, and management of CCTV systems.
- System integrators and technicians responsible for installing and configuring CCTV systems.
- Security managers and supervisors overseeing the operation and maintenance of CCTV systems.
- IT professionals are involved in the network infrastructure and integration of CCTV systems.
- Individuals seeking to enhance their knowledge and skills in the field of CCTV systems for career advancement.

Course Outline

Day 1: Introduction to CCTV Systems

1. Introduction and Course Overview
 - Welcome participants and provide an overview of the comprehensive training program.
 - Explain the objectives and expectations for the duration of the training.
2. Understanding CCTV Systems
 - Define CCTV systems and their importance in various settings.
 - Explain the components of a CCTV system and their functions.
 - Discuss different types of CCTV systems analog, digital, IP-based and their features.
3. Camera Selection and Placement
 - Discuss factors to consider when selecting CCTV cameras resolution, lens type, camera type, etc..
 - Explain optimal camera placement for different scenarios indoor, outdoor, high-risk areas, etc..
 - Address common challenges and solutions related to camera placement.
4. Video Signal Transmission and Cabling
 - Explain various video signal transmission methods coaxial, twisted pair, fiber optics, wireless.
 - Discuss the importance of proper cabling and its impact on video quality.
 - Demonstrate cable installation best practices and cable management techniques.

Day 2: CCTV System Installation and Configuration

1. Planning and Designing a CCTV System
 - Discuss the importance of proper planning and design in CCTV system installation.
 - Explain site surveys, camera layout plans, and equipment positioning.
 - Address considerations for network infrastructure and power requirements.
2. Camera Installation and Configuration
 - Demonstrate camera installation techniques for different types of cameras.
 - Explain camera configuration settings for optimal performance.
 - Discuss camera focusing, white balance, exposure, and other camera-specific settings.
3. Network Setup and Configuration
 - Explain network requirements for IP-based CCTV systems.
 - Discuss network addressing, VLANs, and network optimization.
 - Demonstrate network setup and configuration for seamless video transmission.
4. Video Management System VMS Setup
 - Introduce video management software and its role in CCTV system operations.

- Explain VMS setup, user management, and system configuration.
- Demonstrate how to configure live viewing, video playback, and system administration.

Day 3: CCTV System Operations and Control Room Management

1. Video Recording and Storage Management
 - Discuss different recording options DVRs, NVRs and their features.
 - Explain video compression methods H.264, H.265 and their impact on storage requirements.
 - Demonstrate recording schedule setup, storage allocation, and data retention policies.
2. Monitor Setup and Control Room Design
 - Explain monitor types, resolutions, and aspect ratios.
 - Discuss control room layout and ergonomic considerations.
 - Provide guidelines for optimal monitor setup, video wall configuration, and multiscreen displays.
3. Event Management and Alarm Integration
 - Introduce event management and alarm integration in CCTV systems.
 - Discuss the setup and configuration of event triggers and alarm notifications.
 - Demonstrate how to effectively monitor and respond to CCTV system events.
4. Remote Access and Mobile Viewing
 - Discuss remote access options web-based, mobile applications for CCTV systems.
 - Explain remote viewing setup, user permissions, and security considerations.
 - Demonstrate best practices for securing remote access to the CCTV system.

Day 4: CCTV System Maintenance and Troubleshooting Basics

1. Routine Maintenance Procedures
 - Discuss the importance of regular maintenance for CCTV systems.
 - Explain routine maintenance tasks cleaning cameras, checking connections, updating firmware.
 - Demonstrate how to create a maintenance schedule and checklist.
2. Troubleshooting Common Issues
 - Introduce common CCTV system issues and their possible causes.
 - Discuss troubleshooting techniques and best practices.
 - Provide practical exercises for participants to diagnose and resolve common problems.
3. Documentation and Reporting
 - Explain the significance of proper documentation and reporting.
 - Discuss the types of documentation required equipment inventory, maintenance logs, incident reports.
 - Provide templates and guidelines for creating effective documentation.
4. System Backup and Disaster Recovery
 - Discuss the importance of system backup and disaster recovery plans.
 - Explain backup methods for video data, configurations, and system settings.
 - Demonstrate how to create system backups and perform disaster recovery procedures.

Day 5: Advanced CCTV System Operations and Video Analytics

1. Advanced Camera Technologies and Selection
 - Explore advanced camera technologies PTZ, thermal imaging, wide dynamic range.
 - Discuss specialized camera selection criteria for specific surveillance requirements.
 - Explain camera integration with access control and intrusion detection systems.
2. Advanced Video Analytics
 - Introduce advanced video analytics techniques people counting, license plate recognition, behavior analysis.
 - Explain video analytics setup and calibration for optimal performance.

- Demonstrate the integration and configuration of intelligent video analytics features.
- 3. Network Infrastructure Optimization
 - Discuss network infrastructure considerations for CCTV systems.
 - Explore network segmentation, VLANs, and quality of service QoS settings.
 - Demonstrate network optimization techniques for efficient video transmission.
- 4. Video Data Management and Forensic Analysis
 - Explain best practices for managing and storing large volumes of video data.
 - Discuss data retention policies, archival strategies, and data lifecycle management.
 - Introduce forensic video analysis techniques for post-event investigation.

Day 6: Advanced System Integration and Redundancy

1. Integration with Access Control and Intrusion Detection Systems
 - Discuss the integration of CCTV systems with access control and intrusion detection systems.
 - Explain the benefits and practical applications of combined surveillance systems.
 - Demonstrate the setup, configuration, and integration of these systems.
2. Integration with Video Analytics Platforms
 - Explore the integration of CCTV systems with third-party video analytics platforms.
 - Discuss the benefits and possibilities of advanced analytics integration.
 - Demonstrate the setup, configuration, and utilization of integrated systems.
3. Redundancy and Failover Strategies
 - Discuss redundancy options for critical CCTV system components.
 - Explore failover strategies to ensure uninterrupted surveillance operations.
 - Demonstrate the setup and configuration of redundant systems.
4. Video Wall Management and Advanced Control Room Design
 - Discuss advanced video wall management techniques for control rooms.
 - Explore advanced control room design considerations for large-scale deployments.
 - Demonstrate video wall configuration, multiscreen setups, and advanced display options.

Day 7: Advanced Troubleshooting and System Optimization

1. Advanced Troubleshooting Techniques
 - Introduce advanced troubleshooting techniques for complex CCTV system issues.
 - Discuss the use of specialized tools and equipment for advanced diagnostics.
 - Provide practical exercises for participants to troubleshoot and resolve advanced problems.
2. System Performance Optimization
 - Discuss strategies for optimizing CCTV system performance.
 - Explain techniques for bandwidth management, video compression, and storage optimization.
 - Demonstrate system configuration adjustments to enhance performance.
3. Firmware Updates and Software Upgrades
 - Discuss the importance of firmware updates and software upgrades for system stability and security.
 - Explain the process of updating firmware and software for cameras, recorders, and other components.
 - Provide guidelines for ensuring compatibility and minimizing disruption during updates.
4. System Monitoring and Health Checks
 - Discuss the importance of ongoing system monitoring and health checks.
 - Explain the use of monitoring tools and software to detect issues and ensure system integrity.
 - Demonstrate how to conduct system health checks and interpret monitoring data.

Day 8: Advanced Video Analysis and Investigation Techniques

1. Advanced Video Analysis Tools and Techniques

- Introduce advanced video analysis tools video enhancement, object tracking, facial recognition.
 - Explain their applications in post-event investigation and forensic analysis.
 - Demonstrate the setup and configuration of advanced video analysis software.
2. Forensic Video Analysis and Evidence Collection
 - Discuss forensic video analysis techniques for criminal investigations.
 - Explain the legal aspects of video evidence and chain of custody.
 - Demonstrate best practices for evidence collection, preservation, and presentation.
 3. Video Data Mining and Pattern Recognition
 - Explore video data mining techniques for identifying patterns and trends.
 - Discuss the use of video analytics for proactive surveillance and threat detection.
 - Demonstrate how to extract meaningful insights from video data for security purposes.
 4. Practical Exercises and Case Studies
 - Provide participants with hands-on exercises to analyze video footage and extract relevant information.
 - Discuss real-world case studies to illustrate the application of advanced video analysis techniques.
 - Facilitate group discussions to share insights and experiences.

Day 9: Comprehensive System Integration and Advanced Maintenance

1. Integration with Other Security Systems
 - Discuss the integration of CCTV systems with other security systems, such as fire alarms, access control, and intercoms.
 - Explain the benefits of integrating these systems and the enhanced situational awareness it provides.
 - Demonstrate the setup, configuration, and troubleshooting of integrated security systems.
2. Integration with Central Monitoring Stations and Video Management Centers
 - Discuss the integration of CCTV systems with central monitoring stations and video management centers.
 - Explain the benefits of centralized monitoring and management for large-scale deployments.
 - Demonstrate the setup, configuration, and utilization of integrated monitoring solutions.
3. Advanced Maintenance Procedures and Schedules
 - Discuss advanced maintenance procedures for CCTV systems.
 - Explain the importance of proactive maintenance to prevent issues and ensure optimal performance.
 - Provide guidelines for creating comprehensive maintenance schedules and performing thorough system inspections.
4. Diagnosing and Troubleshooting Complex System Issues
 - Introduce advanced troubleshooting techniques for complex CCTV system issues.
 - Discuss common challenges and their underlying causes.
 - Provide practical exercises and case studies to develop participants' troubleshooting skills.
5. System Performance Monitoring and Reporting
 - Explain the importance of ongoing system performance monitoring.
 - Discuss different monitoring tools and software for tracking system health and performance.
 - Demonstrate how to generate comprehensive performance reports and identify areas for improvement.

Day 10: Advanced Optimization and Future Trends

1. Advanced System Optimization Techniques
 - Discuss advanced techniques for optimizing CCTV system performance.
 - Explore bandwidth management, video compression, and storage optimization strategies.
 - Demonstrate system configuration adjustments to enhance overall efficiency and effectiveness.

2. Future Trends in CCTV Systems

- Provide an overview of emerging trends and technologies in the field of CCTV systems.
- Discuss advancements in video analytics, artificial intelligence, and machine learning.
- Explore the integration of CCTV systems with IoT devices and cloud-based solutions.

3. Industry Best Practices and Standards

- Discuss industry best practices for CCTV system operations, maintenance, and optimization.
- Explain relevant standards and regulations that govern CCTV system deployments.
- Address the importance of compliance with privacy and data protection regulations.

4. Continuous Learning and Professional Development

- Emphasize the importance of continuous learning and professional development in the field of CCTV systems.
- Provide resources and recommendations for staying updated on industry advancements.
- Discuss certification programs and professional organizations for networking and knowledge-sharing.

Registration form on the Training Course: CCTV Systems

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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