



*Training Course:
Networking Video*

*8 - 12 June 2025
Istanbul (Turkey)
DoubleTree by Hilton Istanbul Esentepe*

Training Course: Networking Video

Training Course code: MA235935 From: 8 - 12 June 2025 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 5500 ₺ Euro

Introduction:

This training program is designed by Global Horizon Training Center to provide participants with the foundational and advanced knowledge needed for deploying and managing video networking systems. With the growing use of video surveillance, remote communication, and live video streaming in various industries, understanding how to design, configure, and troubleshoot video networks is crucial for IT professionals, system integrators, and security specialists. The program combines both theoretical concepts and real-world practices in IP video networking, video over IP technologies, and video network infrastructure planning.

Objectives:

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

- Understand the principles of video networking and IP-based video transmission.
- Design and deploy robust video communication and surveillance networks.
- Identify key hardware and software components in video networking systems.
- Configure video streaming protocols and optimize bandwidth usage.
- Troubleshoot video transmission and connectivity issues.
- Apply cybersecurity measures for video networks.

Course Methodology:

- Instructor-led interactive sessions
- Hands-on configuration labs and system simulations
- Real-world case studies and group exercises
- Problem-solving workshops and technical demonstrations
- Audio-visual presentations and guided discussions

Organizational Impact:

- Enhances the technical competence of IT and security teams.
- Enables effective implementation and maintenance of video surveillance systems.
- Reduces downtime and improves incident response through well-designed video networks.
- Supports digital transformation efforts in communication and monitoring infrastructure.
- Strengthens internal capabilities in video streaming, conferencing, and surveillance integration.

Target Audience:

- IT Network Engineers and Technicians
- Security System Engineers
- Audio/Video System Integrators
- Surveillance and Control Room Operators
- Technical Support and Maintenance Teams
- Professionals involved in designing or managing video networking infrastructure

Course Outline:

Day 1: Introduction to Networking Video Technologies

- Overview of video networking and digital video fundamentals
- Video signal formats: analog vs digital
- Introduction to IP video systems and components
- Video compression standards: H.264, H.265, MJPEG
- Basic concepts of bandwidth, resolution, and frame rate

Day 2: Video over IP and Transmission Protocols

- IP addressing, subnetting, and video streaming essentials
- RTP, RTSP, RTMP, ONVIF protocol overview
- Multicast and Unicast streaming
- Setting up and configuring video encoders and decoders
- Integration with video management systems VMS

Day 3: Network Infrastructure for Video Transmission

- Network design for video surveillance and conferencing
- Switches, routers, and PoE Power over Ethernet planning
- VLANs and QoS Quality of Service for video optimization
- Wireless video transmission - challenges and solutions
- Troubleshooting video streaming issues

Day 4: Video Security and Data Protection

- Securing IP video streams and devices
- Cybersecurity risks in video networks
- Encryption, firewalls, and access control for video systems
- User authentication and remote access security
- Data retention and storage compliance

Day 5: Practical Applications and Case Studies

- Real-world deployment scenarios and best practices
- Project planning and implementation walkthrough
- Group exercise: design a complete video network
- Review of current technologies and future trends
- Final Q&A and certification of participation .

Registration form on the Training Course: Networking Video

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