

**Course title:** Cyber Security for IP Video Course

**Duration:** 3 Days / two 2 hour sessions per day

**Target audience:** Technicians, Project Managers and IT Professionals

Max number of attendees: **3**

**Objectives:**

Upon successful completion of this course, the participant should be able to:

- Understand a CVE number
- Perform basic NMAP Scans
- Lockdown a Bosch IP Camera
- Understand Certificate Basics
- Utilize the Configuration Manager Micro CA
- Deploy VRM encryption
- Utilize Wireshark
  - Follow Communications
- Pass the Final Written and Practical Exams with a 80% or higher score.

## Training Block 1 : 2 Hours

### B1-Module 1: Current State of Cyber

- Current State of Cyber Security
- Hacking and Hackers
- Virtual Lab Introduction

### B1-Module 2: Scanning Software: Hands On

- NMAP
- Nessus and Nexpose

## Training Block 2 : 2 hours

### B2-Module 1: Device Lock Down: Hands On

- Bosch Configuration Manager
- Device Lock Down Procedures
- Scanning Results

## Training Block 3 : 2 hours

### B3-Module 1: Certificates: Hands on

- Device Certificate Basics
- CFM Micro CA
- Creating and Signing Certificate Signing Requests
- Certificates and Web browsers

## Training Block 4: 2 hours

### B5-Module 1: VRM Encryption: Hands On and Lecture

- VRM Encryption overview
  - PKI infrastructure and Camera Keys
- Creating Back Up Keys
- Recording Encrypted Video
- Playback and Playback issues

## Training Block 5: 2 hours

### B4-Module 1: BVMS Secure Communications: Hands on

- BVMS End to-End communications
- Enabling Encryption

### B4-Module 2: Hashing

- Hashing functions
- Video Authentication

## Training Block 6: 2 hours

### B5-Module 1: Wireshark

- Filtering Live and Capture Mode
- Analyzing Packets and Post Capture Filters
- Following Conversations
- Telnet Capture
- Web Capture
- FTP Capture

### B5-Module 2: SSH

- SSH Configuration and Settings

### B5-Module 2: CHAP and iSCSI

- CHAP overview and iSCSI target Configurations