

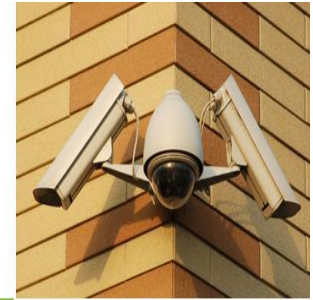
Course Title

CCTV Course

Course Introduction

In today's ever growing fast paced technological world There are many innovations brought into the CCTV World. This course is intended Whether you are already experienced, or new to invaluable training course is the ideal solution to positioning you or your company in a highly sought-after and lucrative security related industry. Our practical CCTV training course, delivered by highly skilled industry specialist trainers, equips students with in-depth knowledge of new skills covering CCTV system design, installation and maintenance.

To keep ahead of rapid industry advances in technology, we train our students in installation theory and practice of only the newest and most technologically sophisticated equipment, meaning we train them to operate in the most profitable area of the business.



Course Objective

You will be introduced to the concept of Networking including the various digital concepts like reading and writing the binary number, processing the information and the bandwidth definitions in Analog and digital Systems. You will be educated on the various types of networks, protocols used, network topologies and also about the basics of network. You will also be explained about the various components used in a network and the cabling techniques employed in the installation and the tools to be used in troubleshooting.

Course Duration

4 days(8 hours)

3 days for CCTV

1 day for Networking concepts

Target Group

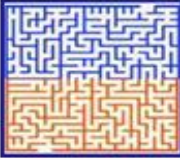
CCTV implementation experts

Electrical Engineers

IT engineers

Network Experts

CCTV operators



CCTV Course Outlines

- Introduction
- Scanning
- Lightning
- Bandwidth
- Compression
- Synchronization

Cameras

- Principles of picture formation
- Types of CCD cameras
- Important camera features like sensitivity, resolution etc.
- Different types & sizes of CCD chips
- Lighting and camera response
- Adjustments, precautions and trouble shooting
- Choosing cameras

Lenses

- Construction of lenses
- Types of lenses
- Features of lenses including focal length, F Stop, Depth of field etc.
- Different lens sizes and formats
- Adjustments, precautions and trouble shooting
- Choosing Lenses

CCTV Accessories

- Types, features and applications of Pan Tilt Heads
- Type and features of housings
- Infrared Illuminators
- Choosing of CCTV Accessories
- Adjustments, precautions and trouble shooting

Transmission Systems

- Video transmission including different types of cables and Digital Networks.
- Telephone networks
- Different methods for transmission of control signal
- Power transmission systems
- Adjustments, precautions and trouble shooting

Switching Systems

- Principles and features of different types of switchers
- Multiplexers, quads, & matrix switchers
- Digital Switching

Monitors

- Different types and important features of monitors
- Adjustments, precautions and trouble shooting

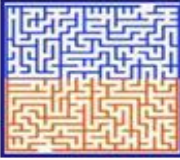
Recording systems

- HDD Drive, Interfaces, RAID
- Different type of recording systems
- Types, features and how to choose digital recorders
- Adjustments, precautions and trouble shooting

Other CCTV Devices

- Video Motion Detectors
- Video amplifiers etc.

CCTV System Design process



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Together Towards Target



- Different design debates and design trends
- How to choose the different CCTV components
- How to conduct a CCTV survey

CCTV Installation Process

- Cabling, equipment mounting
- Testing, commissioning and maintenance
- Operator Training & Manuals
- CCTV Tools

CCTV Applications

- Security, Monitoring, Process Control,
- Audio/Video Communications, Medical, Robotics

Networking Concepts -Introduction

Digital Concepts

- Introduction
- Basics
- Process
- Bandwidth

Structure

- Networks
- Protocols
- Ethernet
- Inter network
- Topology
- Architecture

Basics of Network

- Reference Models
- IP Addressing
- Devices
- Ports & Sockets
- Port Forwarding
- VPN

- DSL

Components

- Software
- NIC
- Servers
- Hub
- Switch
- Bridge
- Routers
- Gateway
- Repeaters

Installation

- Cabling
- Troubleshooting
- Tools

Contact Us

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