

CCTV designing

IT & IT Engineering
Rome (Italy)
13 - 17 Jan 2025

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CCTV designing

Ref: 321767_146236 **Date:** 13 - 17 Jan 2025 **Location:** Rome (Italy) **Fees:** 4200 **Euro**

Introduction

This course covers areas of CCTV installation training with DVR IP setting, PTZ installation, CAT5 in CCTV and many other important aspects of CCTV installation. At the successful completion of the CCTV installation training course you will be able to install and maintain CCTV systems with remote viewing facility

You will be awarded a certificate at the end of this course.

Who Should Attend:

The course is designed for anyone who has a desire to pursue a career in the CCTV industry and the course requires no former prerequisite qualifications

Course Objectives

This course will qualify you for a job in CCTV security based companies as a CCTV Maintenance Engineer /Sales Engineer.

Also, the skill you acquired will qualify you to start your own business as a CCTV security and maintenance consultant.

Course Outlines

DAY 1

CCTV CONCEPTS

- CCTV and its components
- Principle of Picture formation - interlace and progressive
- Lightning and camera response
- Bandwidth analog and digital
- Different Compression Techniques
- Video Analytics and its applications
- Understanding High Definition

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CAMERAS

- Types of video cameras including megapixel cameras and IP cameras
- The important camera features like sensitivity, resolution etc.
- Different types & sizes Image Sensors
- Lighting and camera response
- Adjustments, precautions and troubleshooting
- Choosing cameras

DAY 2

CCTV ACCESSORIES

- Type and features of housings
- Infrared Illuminators
- Choosing of CCTV Accessories
- Adjustments, precautions and troubleshooting

TRANSMISSION SYSTEMS

- Video transmission like Co-ax, twisted pair, fiber optics, microwave, RF etc.
- Digital networks
- Different methods for transmission of control signal
- Power transmission systems
- Adjustments, precautions and troubleshooting

DAY 3

RECORDING SYSTEMS

- HDD Drive, Interfaces, RAID
- Different type of recording systems
- Types, features and how to choose digital recorders
- Adjustments, precautions and trouble shooting
- Control Room Design
- Video amplifiers etc.

IP SURVEILLANCE COMPONENTS

- Software interaction with hardware
- Step by Step configuration & Installation techniques
- Video compression codecs H 264, Mpeg codecs
- Video/Audio Compression - Bandwidth Budgeting/Planning
- Storage Consideration Local and Cloud Storage
- Configuring NVR

DAY 4

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NETWORK CONFIGURATIONS FOR LANS, WANs

- Crimping BNC, CAT5 & keystone connectors
- Video transmission analog to digital, megapixel cameras
- Configuring Power Distribution Unit PDU
- Assembling a CCTV system Troubleshooting using CCTV tester
- Mobile phone viewing configuration
- Configuring domain name server DNS
- Learning about different types of router
- Wireless Networking
- Wireless Access Points

DAY 5

IP CAMERA INSTALLATION IP INSTALLER FOR IP CAMERAS, PARAMETER SETTING

- Introduction to lenses and lens theory Field of view, varifocal and fixed lenses
- Digital CCTV storage and lighting DVR storage calculator, Illumination and camera sensitivity in CCTV
- PTZ camera installation Protocols, baud rate in PTZ
- Installing camera housing for bigger projects with power
- Business and Entrepreneur Opportunities
- Site Feasibility Study
- Project designs, costing and implementations
- Testing and commissioning
- Management
- Marketing Strategies

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www.blackbird-training.com



training@blackbird-training.com



+44 7480 775526 / +44 7401 177335