



Course Outline on
CCTV Installation and Maintenance Course
Course Code : CIC102

Class1

- CCTV Cameras Resolutions from CIF to 4K
 - Importance of Setting the Right Frame Rate in CCTV
 - How to Power CCTV Cameras?
 - How CCTV Camera Works?
 - Difference between Analogue, HD and IP Cameras
 - Cables for IP, HD and Analogue Cameras
 - CCTV Storage, DVR & NVR with HDD
 - Basic Discussion on NVR and DVR based CCTV system with their requirements.
- 10 Marks Test Exam- Time 5 Minutes

Class2

- LAN and WAN Networks, What They are and How they work
 - Ethernet Cable - How Devices Connect on Networks
 - IP addresses - What They Are and How They work
 - Ports in IP/TCP - What They are and How we use them
 - DNS in IP Networks, What It Is and How we use It
 - Routers and Switches, PoE Switches, What They are and How we use Them in IP CCTV
 - PoE - What It Is and How we Use It in IP CCTV?
 - Live Examples of Most Common PoE Devices
 - How to Use CMD - Command Prompt on Your Computer
 - How to Change IP of Your Computer
- 10 Marks Test Exam- Time 5 Minutes

Class3

- Types of IP Cameras
 - IP Camera - Video Quality Contributors
 - IP Cameras - How to program them
 - Live Programming of IP Camera
 - Live Examples of PoE Devices
 - Live Example of Simple WiFi Enabled IP Camera Set Up
- 10 Marks Test Exam- Time 5 Minutes

Class4 &5

- Network Video Recorder Setup and Programming
 - Adding IP Cameras to NVR
 - Live Programming of NVR Initial Steps (monitor view)
 - Live Programming of NVR - Main Menu (monitor view)
 - Live Programming of NVR - Adding Cameras in Plug & Play Mode
 - Live Programming of NVR from Web Browser
- 10 Marks Test Exam- Time 5 Minutes



Class6

- Advanced IP Scanner - Installation and Basic Functions
 - Remote Access of a DVR/NVR
 - Network Cable Tester
 - Simple PoE Tester
 - Initializing Camera, Changing IP
- 10 Marks Test Exam- Time 5 Minutes

Class7

- VMS basics
 - VMS Setup in PC, Configure, monitoring etc
- 10 Marks Test Exam- Time 5 Minutes

Class8

- VMS in Android basics
 - VMS Setup in Phone, Configure, monitoring etc
- 10 Marks Test Exam- Time 5 Minutes

Class9

- Live Hardware Setup of a DVR
 - Live Programming of a DVR
 - A to Z Setup, configure in monitor, PC setup, Phone Setup etc
- 10 Marks Test Exam- Time 5 Minutes

Class10

- Trouble Shootings- DVR System
- Trouble Shootings- NVR System

10 Marks Test Exam- Time 5 Minutes

Bonus Class

- Business setup for CCTV business
- Customer requirements understanding and steps for making business
- Quotation or business proposal format
- Bill or Invoice format
- Marketing of your business
- Certificate giving

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