

CURRICULUM

FOR THE TRADE OF

CCTV CAMERA, NETWORKING & OTHER SECURITY SYSTEMS

UNDER

ON THE JOB (OJT) TRAINING SCHEME

COURSE: NCSP (NEXA CERTIFIED SECURITY PROFESSIONAL)

PREPARED BY



What is NCSP?

Nexa System Certified Security Professional, employee training at the place of work while he or she is doing the actual job for a period of 1yr. It is an OJT program.

What is its use?

- o Everyone can understand their responsibilities effectively
- o They will become mechanically challenged
- o They will become skilled professionals

PART-1

Foundation Course: Module 1 & Module 2

Topics Covered: Networking Essentials (20 class) ,CCTV Surveillance (42 class) & Personality development (4 class) Total 66class /132hours

NETWORKING ESSENTIALS				
Code	Topics Covered	Date	Faculty	Student
M1T1	Overview of Network			
M1T2	Transmission Media			
M1T3	Network types (LAN, CAN ,MAN and WAN)			
M1T4	Network adapters			
M1T5	Introducing protocols			
M1T6	Cabling and troubleshooting.			
M1T7	Introduction to various networking devices:			
M1T8	Routers.			
	Switches.			
	Modems.			
	Hubs etc.			
M1T9	Wired and Wireless technology			
M1T10	IP Address -I			
M1T11	IP Address -II			
M1T12	Setting IP addresses			
M1T13	Configuring DHCP client			
M1T14	Sharing files and folders.			
M1T15	Sharing files and folders.			

M1T16	Network troubleshooting.			
M1T17	PING test, ipconfig etc.			
M1PD1	How to interact with customer			
M1T18	Internet Connection Sharing			
M1T19	Wireless Networking			
M1T20	Essential security measures.			
CCTV SURVEILLANCE				
Code	Topics Covered	Date	Faculty	Student
M2T1	Soldering			
M2T2	Voltage & Current			
M2T3	What is CCTV System			
M2T4	Components of Basic camera			
M2T5	Understanding types of CCTV Camera			
M2T6	Understanding the site sketches & drawings-I			
M2T7	Understanding the site sketches & drawings-II			
M2T8	Indoor and Outdoor CCTV installation & parameters			
M2T9	DVR,Hybrid DVR & NVR-I			
M2PD1	how to achieving productivity and quality standards			
M2T10	DVR,Hybrid DVR & NVR-II			
M2T11	Network cable & RJ45 Connector Crimping-I			
M2T12	Network cable & RJ45 Connector Crimping-II			
M2T13	IP Address-I			
M2T14	IP Address-II			
M2T15	Power Supply Unit and POE switch			
M2T16	UPS and its types			
M2T17	Understanding DVR Configuration procedure-I			
M2T18	Understanding DVR Configuration procedure -II			
M2T19	Playback & Live view of HDVR			
	Scheduling Recording-I			
M2T20	1. Continuous			

	2. Motion Detection			
M2T21	Scheduling Recording-II 1. Holiday			
M2T22	Advanced video recording parameters 1. Resolution 2. Frame rate 3. Video encoding			
M2T23	Hard disk Management			
M2T24	Camera Management 1. OSD 2. Date & time management			
M2T25	Enable motion detection & linkage action-I 1. Linkage action 2. Audible warning			
M2T26	Enable motion detection & linkage action-II 1. Send email			
M2T27	Enable motion detection & linkage action-III			
M2T28	1. Trigger alarm output Upload captured pictures to cloud			
M2T29	Enable privacy masking & video tampering-I			
M2T30	Enable privacy masking & video tampering-II			
M2PD2	How to coordinate with colleagues and co-workers			
M2T31	DVR on Network settings 1. IP Addressing 2. Plat form access			
M2T32	DVR on Network- settings continued 1. DDNS 2. Email setup 3. NAT 4. Port setup			
M2T33	User management & permissions-I			
M2T34	User management & permissions-II			
M2T35	System maintenance 1. Log information			

	2. Restoring DVR			
M2T36	Mobile view setup 1. ivms 4500 2. iCMOB			
M2T37	Enable mobile view by port mapping/port forwarding			
M2T38	Working with Mic			
M2T39	Create Video Backup to USB Pendrive			
M2T40	Password cracking/resetting			
M2T41	Troubleshooting Clarity & resolution, Data breakdown, Reflection & lightings, Data recording error, Hardisk error, Cable tracing			
M2T42	Troubleshooting CCTV Fault finding, DVR fault finding, Date & time error, Network Errors, Port error, Network range error,			
M2PD3	Preparing for Interview			
T1	Part 1 Completion & evaluation			

PART-2

Advanced Course: Module 3, Module 4, Module 5 & Module 6

Topics Covered: NVR & IP CAMERA (48 class) , INTRUSION ALARM SYSTEM (9 class), BIOMETRIC TIME ATTENDANCE SYSTEM (16 class), VIDEO DOOR PHONE (VDP,8 class) & Personality development (4 class) Total 85class /170 hours

NVR & IP CAMERA				
Code	Topics Covered	Date	Faculty	Student
M3T01	IP address			
M3T02	Understanding NVR			
M3T03	IP Surveillance vs. Analog Camera			
M3T04	Working with IP Camera			
M3T05	Megapixel vs. TVL			
M3T06	WebView setup of IP Camera (IP finder & Easy Viewer of CP Plus)			
M3T07	Exposure,BLC,HLC,WB & Day & Night Vision			

M3T08	Understanding Camera Lenses (3.6mm,6mm,8mm & 12mm)			
M3T09	Day & Night Vision of Camera			
M3T10	NVR WebView & setup			
M3T11	IP Camera Installation with NVR & HVR			
M3T12	Practical setup of an IP Camera			
M3T13	Live & Playback view			
M3T14	Backup video to USB Pendrive			
M3T15	Encoding setup of NVR			
M3T16	Hard disk Management in NVR			
M3T17	NVR Event Setup- Theory			
M3T18	Users & Group			
M3T19	Managing Online Users & Permission on NVR			
M3T20	Understanding Network & Log			
M3T21	Network setup of NVR			
M3PD1	Core Skills/Generic Skills			
M3T22	Email setup of NVR			
M3T23	FTP			
M3T24	Motion detect, Video loss & Video masking -I			
M3T25	Motion detect, Video loss & Video masking-II			
M3T26	Scheduling recording			
M3T27	Scheduling recording- Holiday setup			
M3T28	Mobile view setup (Android & iPhone) using Cloud			
M3T29	Mobile view setup (Android & iPhone) using IP			
M3T30	IP camera & Internet setup			
M3T31	Troubleshooting NVR & IP Camera			
M3T32	Very Focal Camera-Manual lense & focus ajustment			
M3T33	Display Unit Assembling, mounting and power supply			
M3T34	VGA, HDMI Connection setup & video parameters			

M3T35	Understanding Installation and Configuration of Wireless CCTV Camera- Clever Dog			
M3T36	Understanding types of cable			
M3T37	Understanding types of connectors			
M3T38	Cable laying and routing			
M3T39	Basics of Fiber Optic Cable			
M3T40	Inside Fiber Optic Cable			
M3T41	Types and color coding of OFC			
M3T42	OFC Loss mechanisms			
M3T43	OFC Connectors			
M3T44	Splicing			
M3T45	Fiber Optic Components			
M3T46	Attenuator & Patch Codes			
M3T47	OFC switches			
M3T48	Testing and troubleshooting			
M3PD2	Importance of improving Technical Knowledge			

INTRUSION ALARM SYSTEM				
Code	Topics Covered	Date	Faculty	Student
M4T1	Introduction to Intrusion Alarm System & function			
M4T2	Intrusion Alarm Settings 1. Arm 2. Disarm 3. Home Aim 4. Emergency Alarm			
M4T3	Intrusion Alarm Alert Settings 1. By Call 2. By SMS			
M4T4	Adding and removing accessories-I 1. Remote control 2. PIR sensor			
	Adding and removing accessories-II			

M4T5	3. Smoke detector 4. Door Contact Sensor 5. Siren			
M4T6	Adding and removing accessories-III Practice Session System Settings 1. Delay settings 2. Password settings			
M4T7	System Settings 3. Siren settings 4. Phone & SMS Settings Message Record			
M4T8	Practice Session-1			
M4T9	Practice Session-2			
BIOMETRIC TIME ATTENDANCE SYSTEM				
Code	Topics Covered	Date	Faculty	Student
M5T1	Introduce to all types of Bio-Matric Machines			
M5T2	Installing Bio-Matric attendance machine & licensing			
M5T3	eSSL - eTimeTrack-Lite Features			
M5T4	Master Setup of eTimeTrack			
M5T5	Setup Master Details, Company, Users, Departments.			
M5T6	Setup Employee Categories			
M5T7	Attendance management			
M5T8	View Log Records			
M5T9	Registers Attendance Register. OT Register Leave Register Attendance Logs Register			

M4PD1	How to prepare for the interview			
M5T10	Device Management			
M5T11	User management			
M5T12	Utilities Backup and restore			
M5T13	Reports management Daily Monthly Yearly			
M5T14	Practice session -1			
M5T15	Practice session -2			
M5T16	Practice session -3			

VIDEO DOOR PHONE (VDP)

Code	Topics Covered	Date	Faculty	Student
M6T1	Introduction to Video Door Phone I			
M6T2	Introduction to Video Door Phone II			
M6T3	Appearance description-Indoor & Outdoor station			
M6T4	Installation & wiring -I			
M6T5	Installation & wiring -II			
M6T6	Integration of CCTV Camera with VDP			
M6T7	Local Operation & Practice-I			
M6T8	Local Operation & Practice-II			
M6PD1	Interview tips			
T2	Part 2 completion & evaluation			