



Course Overview:

Cyber Physical / Physical Security Course

Step into the world of **Cyber Physical and Physical Security** and learn how organizations protect people, facilities, and critical infrastructure from physical and cyber-physical threats. This course is designed for **beginners, IT graduates, and working professionals** who want to build a career in **physical security and cyber-physical systems security**.

You will learn:

- Basics of Physical & Cyber-Physical Security
- Physical Security Layers & Perimeter Protection
- Access Control Systems (Cards, Biometrics)
- CCTV & Surveillance Systems
- Insider Threats & Social Engineering
- Cyber Risks in Physical Systems (IoT, SCADA, Smart Buildings)
- Incident Handling & Emergency Response

By the end of the course, you will gain **job-ready skills** to work in **Physical Security Operations, Cyber-Physical Security, or Security Monitoring roles**, and help organizations protect **facilities, assets, and critical systems** effectively.

1. Introduction to Physical & Cyber-Physical Security :

- What is Physical Security?
- What is Cyber-Physical Security?
- Importance of Physical Security in Cybersecurity
- Physical vs Cyber vs Cyber-Physical Security

2. Physical Security Fundamentals :

- Security Perimeter & Access Zones
- Physical Access Control Systems (PACS)
- Locks, Barriers, Gates & Fencing
- Visitor Management Systems

3. Surveillance & Monitoring Systems :

- CCTV & Video Surveillance
- Video Management Systems (VMS)
- Motion Sensors & Intrusion Detection
- Alarm Systems

4. Access Control Technologies :

- ID Cards, Smart Cards & Keypads
- Biometric Systems (Fingerprint, Face, Iris)
- Multi-Factor Physical Authentication
- Physical Access Policies

5. Cyber-Physical Systems (CPS) :

- Overview of Cyber-Physical Systems
- ICS, SCADA & OT Security Basics
- Smart Buildings & IoT Devices
- Risks in Cyber-Physical Environments

6. Threats & Attacks :

- Physical Security Threats
- Insider Threats
- Social Engineering & Tailgating
- Cyber Attacks on Physical Systems

7. Risk Assessment & Security Design :

- Physical Risk Assessment
- Site Surveys & Threat Modeling
- Layered Security (Defense in Depth)
- Security Architecture for Facilities

8. Incident Response & Emergency Management :

- Physical Security Incident Handling
- Emergency Response Procedures
- Crisis Management & Evacuation Plans
- Coordination with SOC & Law Enforcement

9. Compliance & Standards :

- Physical Security Policies
- ISO 27001 Physical Security Controls
- NIST Physical & CPS Security Guidelines
- Health, Safety & Legal Requirements

10. Integration of Cyber & Physical Security :

- SOC & Physical Security Integration
- SIEM + Physical Security Events
- Central Monitoring & Reporting
- Use Cases & Best Practices

11. Tools & Technologies :

- Access Control Software
- Surveillance Tools
- Physical Security Information Management (PSIM)
- IoT Security Tools

12. Case Studies & Hands-On Labs :

- Facility Security Assessment
- CCTV & Access Control Design
- CPS Attack Scenarios
- Incident Response Simulations

13. Career & Certification Guidance :

- Roles: Physical Security Analyst, CPS Security Engineer, Security Operations
- Certifications: PSP, CPP, Physical Security & CPS Courses
- Resume & Interview Preparation



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