

Course Objective

The course equips trainees with the skills, knowledge and professional attributes to design, deploy, manage implementation and maintenance of physical security projects, as well as apply AI and automation into the systems to optimise operational efficiency and reliability.

Module Synopsis

Module 1: Network Infrastructure

On completion of the module, trainees should be able to set up, configure and manage wired and wireless Local Area Network (LAN). They should also be able to explain networking terminologies, concepts and technologies.

Module 2: Video Surveillance & AI Analytics

On completion of the module, trainees should be able to set up, configure, test and troubleshoot video surveillance systems and video analytics. They should also be able to explain video surveillance terminologies and concepts.

Module 3: Intrusion & Access Control with AI

On completion of the module, trainees should be able to set up, configure, test and troubleshoot Intrusion and Access Control Systems. They should also be able to explain access control terminologies and concepts.

Module 4: Cybersecurity for Security Systems

On completion of the module, trainees should be able to configure, test and troubleshoot Cybersecurity solutions to protect security systems. They should also be able to explain security threats and vulnerabilities, technologies and tools used in implementing effective Cybersecurity solutions.

Module 5: Server & Storage Management

On completion of the module, trainees should be able to set up and maintain server and storage systems in a systematic manner.

Module 6: Project Management & Technical Writing

On completion of the module, trainees should be able to plan, execute and monitor security system project using the various project management tools and techniques to meet the project scope, schedule and cost requirements. They should also be able to prepare and write technical reports.

Module 7: Security Risk Assessment & System Design

On completion of the module, trainees should be able to conduct security risk assessment and system audit. They should also be able to identify security gaps and propose security system solution.

Module 8: Security System Integration & Programming

On completion of the module, trainees should be able to design, implement an integrated security system solution and write program to integrate devices into security systems by applying programming concepts and languages.

Module 9: Company Project

On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

Module 10: On-the-Job Training

On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function, where appropriate, at the company.
