List of Competencies for On-the-Job Training (OJT) Work-Study Diploma in Security Systems Engineering

S/N	List of Competencies (Standard)	Company to indicate '√' for OJT competencies it can provide								
Desi	Design physical security system solution									
1.	Conduct security risk/safety assessment									
2.	Develop security risk control plans									
3.	Propose security system measures									
Man	age video surveillance system									
4.	Develop video surveillance system plan									
5.	Install video surveillance system									
6.	Commission video surveillance system									
Man	age access control & intrusion detection system									
7.	Install access control system									
8.	Maintain access control system									
9.	Install intrusion detection system									
10.	Maintain intrusion detection system									
Man	age network infrastructure									
11.	Establish network infrastructure requirements									
12.	Deploy network infrastructure									
13.	Manage network services									
Set (ip server and storage system									
14.	Set up storage system									
15.	Maintain storage system									
16.	Set up server infrastructure									
17.	Maintain server infrastructure									
Manage security system project										
18.	Plan security system project									
19.	Oversee security system project									
20.	Deliver project									
Enha	Enhance cybersecurity of physical security system solution									
21.	Conduct cybersecurity risk assessment for physical security system									

S/N	List of Competencies (Standard)	Company to indicate '√' for OJT competencies it can provide						
22.	Propose cybersecurity measures for physical security system							
23.	Implement cybersecurity measures for physical security system							
Per	orm system integration & programming							
24.	Perform security system integration							
25.	Perform integration of security components							
26.	Perform testing and commissioning of integrated security system							
27.	Maintain integrated security system							
	Sub-total of Competencies (Standard)							
List	of Competencies (Company-specific)							
1								
2								
3								
4								
5								
6								
7								
	Sub-total of Competencies (Company-specific)							
Note	:							
a) C	ompany must be able to provide OJT for at least 75% of the List of Cor	mpetencies (Standard).						
, M) If company is unable to meet the 75%, please propose alternate course-related competencies which are unique to company operations. <u>Alternate competencies are capped at 25%</u> . [i.e. 50% of the list of competencies (standard) + 25% alternate competencies (Company-specific)].							
c) A	All alternate competencies (Company-specific) must be reviewed and endorsed by ITE.							
d) T	rainees must receive OJT and be assessed for All competencies selec	ted in this List.						
Total	no. of competencies selected by company for OJT							
Total	Total no. of competencies listed (standard & company specific)							
Perc	Percentage of selected competencies							

Completed By:	
Name	Company

For ITE's Completion							
	Reviewed by CED / Co (For Company-specific Compe	Verified by IBT Officer					
Name:		Name					
Designation:		Date:		& Date:			

Version: June'23

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 & Al 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 Al

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.



TRAINING PATTERN (BLOCK RELEASE)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Year 1	Yr 1 (7 weeks)						OJT			Yr 1 (4 weeks)		
Year 2	OJT					Yr 2 (7	weeks)	OJT				
Year 3		Yr 2 (4 weeks) OJT				Yr 3 (6	weeks)					

