List of Competencies for On-the-Job Training (OJT)
Work-Study Diploma in Cyber Security & Forensics

Note: LOC is subject to changes due to curriculum review/ development

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
1	Manage security education and awareness	☐
2	Facilitate stakeholder management	☐
3	Manage changes to address information security gaps	☐
4	Manage wired network security infrastructure	☐
5	Manage wireless network security infrastructure	☐
6	Manage IT security infrastructure	☐
7	Manage server security	☐
8	Manage virtualisation security infrastructure	☐
9	Maintain system security documentation	☐
10	Manage threat detection	☐
11	Automate threat detection	☐
12	Prepare threat detection report	☐
13	Prepare for incident handling	☐
14	Perform incident response	☐
15	Implement Incident recovery	☐
16	Plan for vulnerability assessment	☐
17	Perform vulnerability assessment	☐
18	Prepare security assessment report	☐
19	Facilitate penetration testing	☐
20	Perform penetration testing	☐
21	Perform security control management	☐
22	Plan digital forensics operation	☐
23	Extract digital forensics evidence	☐
24	Prepare forensics report and recommendations	☐
	Sub-total of Competencies (Standard)	0

List of Competencies (Company-specific)		
1		
2		
3		
4		
5		
6		
	Sub-total of Competencies (Company-specific)	0

Note:

a) Company must be able to provide OJT for at least **75%** of the List of Competencies (Standard).

b) If company is unable to meet the 75%, please propose alternate **course-related** competencies which are unique to company operations. Alternate competencies are capped at 25%.
[i.e. 50% of the list of competencies (standard) + 25% alternate competencies (Company-specific)].

c) All alternate competencies (Company-specific) must be reviewed and endorsed by ITE.

d) Trainees must receive OJT and be assessed for **All** competencies selected in this List.

Total no. of competencies selected by company for OJT	0
Total no. of competencies listed *(standard & company specific)*	24
Percentage of selected competencies	0%

Completed By:

Name **Company**

Designation **Date**

For ITE's Completion					
Reviewed by CED / College *(For Company-specific Competencies)*				**Verified by IBT Officer**	
Name:				Name & Date:	
Designation:		Date:			

Version: Oct'23

WORK-STUDY DIPLOMA IN CYBER SECURITY & FORENSICS

MODULE OBJECTIVES

Module 1: Risk Management & Compliance

On completion of the module, trainees should be able to drive security education and awareness in an organisation by providing advice and guidance on potential risks, mitigation strategies and best practices. They should also be able to manage security program, solutions, products and services, as well as to facilitate stakeholder expectations and needs.

Module 2: Network Security Management

On completion of the module, trainees should be able to set up, configure, secure, and monitor network system and wireless network for anomalous traffic and identification of intrusions. They should also be able to configure security appliances such as firewall, end-point security, as well as intrusion detection and prevention system, as well as to address identity management requirements and perform logging for network traffic monitoring.

Module 3: System Security Management

On completion of the module, trainees should be able to implement system security and detect unauthorised system intrusion. They should also be able to set up, configure and secure a virtualised infrastructure.

Module 4: Security Operation Management

On completion of the module, trainees should be able to monitor security operation. They should also be able to automate threat analysis using innovative technologies and tools.

Module 5: Security Incident Management

On completion of the module, trainees should be able to manage incidence of cyber-attack or breach. They should also be able to automate incident handling using appropriate tools.

Module 6: Security Assessment

On completion of the module, trainees should be able to perform security scanning to uncover vulnerabilities and weaknesses. They should also be able to elevate extraction and analysis manually and using automated tools.

Module 7: Security Testing

On completion of the module, trainees should be able to facilitate security testing to uncover weaknesses using intrusive approach. They should also be able to automate the process.

Module 8: Cyber Forensics Procedure

On completion of the module, trainees should be able to gather cyber-attack evidence from various sources, escalate the cyber security incident and prepare forensics report for further investigation and analysis.

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 for WSDip in Cyber Security & Forensics

Block Release

- Scheduled blocks of continuous Off-Job-Training (Off-JT) Lessons, 9 weeks annually, in ITE College East

**Off-JT day must be a paid working day, included in employment contract.*

<table>
<tr><th>Year</th><th>January to March</th><th>April to June</th><th>July to September</th><th>October to December</th></tr>
<tr><td>Year 1
Block 1</td><td></td><td>Block Release Training
9 weeks, 5 days/week
at ITE College East</td><td colspan="2">On-the Job Training (OJT)
Full-time in company</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Year 2
Block 2</td><td colspan="2">On-the Job Training (OJT)
Full-time in company</td><td>Block Release Training
9 weeks, 5 days/week
at ITE College East</td><td>On-the Job Training (OJT)
Full-time in company</td></tr>
<tr><td></td><td></td><td></td><td></td><td><u>Legend</u>:</td></tr>
<tr><td>Year 3
Block 3</td><td>Block Release Training
9 weeks, 5 days/week
at ITE College East</td><td colspan="2">On-the Job Training (OJT)
Full-time in company</td><td>Trainee in Company
Trainee in ITE College East</td></tr>
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