List of Competencies for On-the-Job Training (OJT) Work-Study Diploma in Cloud Management & Operations (Cloud Operations)

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 Operating System					
2	Set up Operating System Services					
3	Provide Operating System Maintenance					
4	Implement basic network infrastructure					
5	Configure Network					
6	Provide Network Maintenance					
7	Set Up Virtualisation Environment					
8	Deploy Virtual Machine					
9	Manage Resource Utilisation					
10	Set Up Virtual Machine					
11	Set Up Cloud Service					
12	Manage Cloud Service					
13	Develop Program for infrastructure operation					
14	Build automation frameworks to manage infrastructure operation					
15	Perform script maintenance					
16	Develop Application					
17	Deliver Application					
18	Manage Application Deployment					
19	Manage Infrastructure					
20	Deploy new modules, upgrades and fixes					
21	Manage Configuration Deployment					
22	Perform Threat Assessment					
23	Perform Security Vulnerability Testing					
24	Set Up Security Monitoring and Protection					
	Sub-total of Competencies (Standard)					
List of Competencies (Company-specific)						
1						
2						

S/N	List of Comp	petencies (Stand	lard)			Company to indicate '√' for OJT competencies it can provide			
3									
4									
5									
6						,			
	Sub-total of	Competencies (Company-specifi	c)					
Note	: :								
a) C	Company must l	be able to provide	e OJT for at least 7	75% of t	he List of Co	mpetencies (Standard).			
W	b) 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	ll alternate com	npetencies (Com	pany-specific) mus	st be rev	riewed and er	ndorsed by ITE.			
d) T	rainees must re	eceive OJT and t	oe assessed for Al l	I compe	tencies selec	cted in this List.			
Total	no. of compete	encies selected b	by company for OJ	Т					
Total	Total no. of competencies listed (standard & company specific)								
Perc	entage of selec	cted competencie	es						
Com	pleted By:								
Nam	е			Com	pany				
 Nesi	gnation			 Date					
Designation									
For ITE's Completion									
		viewed by CED I Company-specific Co			Verified by IBT Officer				
	Name:				Name				
Des	signation:		Date:		& Date:				

WORK-STUDY DIPLOMA IN CLOUD MANAGEMENT & OPERATIONS (CLOUD OPERATIONS SPECIALISATION)

MODULE OBJECTIVES

Module 1: Operating System

On completion of the module, trainees should be able to manage operating system, administer operating system services, as well as provide operating system maintenance.

Module 2: Network Programmability

On completion of the module, trainees should be able to design network infrastructure, configure network and provide network administration and maintenance.

Module 3: Virtualisation Infrastructure Management

On completion of the module, trainees should be able to set up on-premise virtualisation environment, deploy virtual machine instance, as well as to perform resource management and monitoring.

Module 4: Cloud Service Operation

On completion of the module, trainees should be able to provision virtual machine, as well as set up and manage cloud services.

Module 5: Scripting

On completion of the module, trainees should be able to develop system program, as well as deploy and monitor program to automate infrastructure operation.

Module 6: Development Operations (DevOps)

On completion of the module, trainees should be able to plan, develop and deliver application, as well as manage application deployment using the DevOps approach.

Module 7: DevOps Tools & Technology

On completion of the module, trainees should be able to manage infrastructure as code, container and at-scale configuration.

Module 8: Cloud Security

On completion of the module, trainees should be able to perform threat assessment, security testing and set up security monitoring and protection.

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.

<u>Training Pattern for WSDip in Cloud Management & Operations (Cloud Operations Specialisation)</u>

Hybrid Release

 9 weeks of intense study for the first year followed by Day Release (1-2 days per week in at ITE College East) for the second year onwards to equip trainees with necessary Cloud Services and Operational Knowledge *

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

Year	January to March	April to June	July to September	October to December
Year 1		Block Release Training	On-the Job Training (OJT)	On-the Job Training (OJT)
Block 1		9 weeks, 5 days/week at ITE College East	Full-time in company	Full-time in company
Year 2	On-the Job Training (OJT)	OJT in company 3-4 days per week	OJT in company 3-4 days per week	OJT in company 3-4 days per week
Block 2	Full-time in company	Day Release Training 1-2 days per week in at ITE College East	Day Release Training 1-2 days per week in at ITE College East	Day Release Training 1-2 days per week in at ITE College East
Year 3	OJT in company 3-4 days per week	OJT in company 3-4 days per week	OJT in company 3-4 days per week	Legend: Company ITE College East
Block 3	Day Release Training 1-2 days per week in at ITE College East	Day Release Training 1-2 days per week in at ITE College East	Day Release Training 1-2 days per week in at ITE College East	TIE CONOGC EGST