List of Competencies for On-the-Job Training (OJT) Work-Study Diploma in Data Centre Infrastructure & Operation

S/N	List of Competencies (Standard)	Company to indicate '√' for OJT competencies it can provide				
1	Identify data centre infrastructure					
2	Perform data centre operation					
3	Identify data centre workplace safety and health (WSH)					
4	Manage operating system					
5	Set up operating system services					
6	Provide operating system maintenance					
7	Design network infrastructure					
8	Configure network					
9	Provide network maintenance					
10	Manage energy supply					
11	Monitor power infrastructure installation and performance level					
12	Localise power infrastructure fault					
13	Monitor temperature and humidity					
14	Maintain data centre hot and cold aisles					
15	Monitor air-conditioning for cooling tower / Air Handling Unit					
16	Prepare for fire protection system inspection					
17	Monitor fire protection system installations					
18	Maintain fire suppression system					
19	Perform IT service lifecycle management					
20	Perform incident management					
21	Perform vendor relationship management					
22	Manage server system					
23	Perform server administration					
24	Perform server and storage management					
	Sub-total of Competencies (Standard)					
List of Competencies (Company-specific)						
1						
2						

,	S/N	List of Competencies (St	andard)		ompany to indicate '√' for OJT ompetencies it can provide				
	3								
	4								
	5								
L	6	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							
		Sub-total of Competencie	es (Company-specific)						
No	te:								
a)	a) Company must be able to provide OJT for at least 75% of the List of Competencies (Standard)								
b)	o) 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)	All al	Iternate competencies (Com	ıpany-specific) must be ı	reviewed an	d endorsed by ITE.				
d)	Trair	nees must receive OJT and	be assessed for All com	petencies s	elected in this List.				
Total no. of competencies selected by company for OJT Total no. of competencies listed (standard & company specific)									
Percentage of selected competencies									
Со	mple	ted By:							
Name			Co	ompany					
 Designation			Da	ite					
	For ITE's Completion Reviewed by CED / College Verified by IRT Officer								
		(For Company-specific C		Ver	rified by IBT Officer				
	N	lame:		Name					
D	esign	ation:	Date:	& Date:					

Course Objective

This course equips trainees with the skills, knowledge and professional attributes to manage data centre information/network system, monitor data centre operation and services, maintain internal documentation and perform independent first-level troubleshooting of recurrent issues to ensure smooth data centre operations.

Module Synopsis

Module 1: Data Centre Infrastructure & Operation

On completion of the module, trainees should be able to identify data centre infrastructure, perform data centre operation, as well as to identify data centre workplace safety and health.

Module 2: Operating System (common module)

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

Module 3: Network Programmability (common module)

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

Module 4: Electrical System

On completion of the module, trainees should be able to manage energy supply, monitor power infrastructure installation and performance level, as well as localise power infrastructure fault.

Module 5: Air-Conditioning & Mechanical Ventilation System

On completion of the module, trainees should be able to monitor temperature and humidity, maintain data centre hot and cold aisles and monitor air-conditioning for cooling tower / Air Handling Unit.

Module 6: Fire Protection System

On completion of the module, trainees should be able to prepare for fire protection system inspection, monitor fire protection system installations and fire suppression system.

Module 7: Service Operation Management

On completion of the module, trainees should be able to perform IT service lifecycle management, incident management and vendor relationship management.

Module 8: Server & Storage Administration

On completion of the module, trainees should be able to manage server system, perform server administration and server/storage management.

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 Data Centre Infrastructure & Operation</u>

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.

Year	January to March	April to June	July to September	October to December	
Year 1		Block Release Training	On-the Job Training (OJT) Full-time in company		
redi i		9 weeks, 5 days/week			
Block 1		at ITE College East	roll-little iti	Company	
Year 2	On-the Job Training (OJT)		Block Release Training	On-the Job Training (OJT)	
	Full-time in company		9 weeks, 5 days/week	Full time in company	
Block 2	roll-fillfle in	Company	at ITE College East	Full-time in company	
				<u>Legend</u> :	
	Block Release Training	On-the Job Training (OJT)		Trainee in Company	
Year 3	9 weeks, 5 days/week	Full-time in company		Trainee in ITE College East	
Block 3	at ITE College East				