

**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

<b>S/N</b>	<b>List of Competencies (Standard)</b>	<b>Company to indicate '✓' for OJT competencies it can provide</b>
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	
	<b>Sub-total of Competencies (Standard)</b>	
<b>List of Competencies (Company-specific)</b>		
1		
2		

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
3		
4		
5		
6		
	<b>Sub-total of Competencies (Company-specific)</b>	

**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

Total no. of competencies listed (*standard & company specific*)

Percentage of selected competencies

**Completed By:**

\_\_\_\_\_

**Name**

\_\_\_\_\_

**Company**

# MODULE SYNOPSIS – WSDip in Cloud Management & Operations (Cloud Operations Specialisation)

## **Course Objective**

The course equips trainees with the skills, knowledge and professional attributes to configure, administer, maintain and automate cloud operations / solutions to ensure smooth running of cloud operations and continuous improvement of cloud solutions.

## **Modules Synopsis**

<b>Operating System</b>
On completion of the module, trainees should be able to manage operating system, administer operating system services, as well as provide operating system maintenance.
<b>Network Programmability</b>
On completion of the module, trainees should be able to design network infrastructure, configure network and provide network administration and maintenance.
<b>Virtualisation Infrastructure Management</b>
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.
<b>Cloud Service Operation</b>
On completion of the module, trainees should be able to provision virtual machine, as well as set up and manage cloud services.
<b>Scripting</b>
On completion of the module, trainees should be able to develop system program, as well as deploy and monitor program to automate infrastructure operation.
<b>Development Operations (DevOps)</b>
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.
<b>DevOps Tools &amp; Technology</b>
On completion of the module, trainees should be able to manage infrastructure as code, container and at-scale configuration.
<b>Cloud Security</b>
On completion of the module, trainees should be able to perform threat assessment, security testing and set up security monitoring and protection.
<b>Company Project</b>
On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.
<b>On-the-Job Training</b>
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 SCHEDULE

### WSDip in Cloud Management & Operations (Cloud Operations Specialisation)

Block Release - Trainees attend daily lessons at ITE for a continuous period and then resume the next block of OJT at the workplace.

April Intake	April – June	July – September	October – December	January – March
1 <sup>st</sup> Year Off-JT @ ITE	9 Weeks Block Training 5 days/week at ITE College	On-the-Job Training (OJT) Full Time in Company	On-the-Job Training (OJT) Full Time in Company	On-the-Job Training (OJT) Full Time in Company
April Intake	April – June	July – September	October – December	January – March
2 <sup>nd</sup> Year Off-JT @ ITE	On-the-Job Training (OJT) Full Time in Company	9 Weeks Block Training 5 days/week at ITE College	On-the-Job Training (OJT) Full Time in Company	9 Weeks Block Training 5 days/week at ITE College
April Intake	April – June	July – September	<b>WSDip Programme</b> <b>Start: 1 April</b> <b>End: 30 September</b> <b>Duration: 2.5 years</b>  <b>Final results release may be later than programme end date</b>	
3 <sup>rd</sup> Year Off-JT @ ITE	On-the-Job Training (OJT) Full Time in Company	On-the-Job Training (OJT) Full Time in Company		