

**Module Synopsis**  
**Specialist Diploma in Cloud Computing (DevOps)**

<b>PDC 1: Post-Diploma Certificate in Fundamentals of Cloud Computing</b>		<b>(120 hours)</b>
<b>1. ET1570: Cloud Foundations</b>		<b>(60 hours)</b>
<p>This module provides a detailed overview of cloud concepts, Cloud Computing Service Provider’s core services, security, architecture, pricing, and support. Equip the participants with the necessary technical skills in the area of Cloud Computing, to build Cloud based project that aligned to industry requirements, and preparation for industry certification such as AWS Certified Cloud Practitioner (ACCP).</p>		
<b>2. ET1571: Linux System Administration</b>		<b>(60 hours)</b>
<p>This module introduces the participants to the Enterprise Linux Operating Systems. The participants learn to be effective administrators of enterprise Linux systems, mastering basic Linux system administration tasks such as adding hardware, managing users, understanding file systems and partitioning logical volumes, SELinux, firewall, troubleshooting and attaching the machine to an existing network.</p>		

<b>PDC 2: Post-Diploma Certificate in Cloud Development &amp; Deployment</b>		<b>(135 hours)</b>
<b>1. IT8553: Cloud Operations</b>		<b>(75 hours)</b>
<p>This module covers techniques and skills required for entry-level DevOps, support, and cloud operations roles. Students will learn to apply best practices in the AWS Cloud and recommended design patterns and create automatable and repeatable deployments of infrastructure, networks, and applications. Students will also learn how to practice continuous monitoring and feedback loops in DevOps for identifying issues, troubleshooting, measuring performance, and driving continuous improvement in operational excellence, cost optimization, security, performance efficiency, reliability, and sustainability. With case studies and demonstrations, students will learn how to design infrastructures and implement various strategies and services for cloud operations. Students will also have the opportunity to build a variety of infrastructures via guided, hands-on activities.</p>		
<b>2. IT8554: Cloud Development</b>		<b>(60 hours)</b>
<p>Cloud Development help participants gain technical expertise in development aspect of a Cloud native solution using Cloud Computing technologies. The course is designed to teach aspiring DevOps associate how to optimize their use of the Cloud by understanding Cloud Service Provider’s services and how they fit into cloud-native business solution with optimization in performance, security, scalability and cost for green computing. Equip the participants with the necessary technical skills in the area of developing software solution with Cloud Computing, build cloud based solutions in the capacity of DevOps Associate, and preparation for industry certification such as but not limited to: AWS Certified Developer Associate (ACDA), Microsoft Certified Azure Developer Associate.</p>		