

Annexe B- Mandatory Unit

Level 3, Unit 1 – AWS Cloud Concepts (6 credits)

1. Understand the AWS Cloud systems	2. Understand AWS Cloud Economics	3. Assess and Understand Cloud Design Principles
1.1 I can describe the connectivity needed for cloud-based services to work	2.1 I can describe the role of operational expenses in relationship to cloud system	3.1 I can identify the cloud architecture design principles
1.2 I can analyse the connectivity needed to make cloud-based services productive and efficient	2.2 I can describe the role of capital expenses in relationship to cloud system	3.2 I can analyse system needs based on effectiveness and efficiency
1.3 I can research and describe the benefits of an AWS Cloud system for its agility	2.3 I can evaluate costs associated with cloud-based system against requirements	3.3 I can document and describe system needs to match outcomes
1.4 I can research and describe the benefits of an AWS Cloud system for its scalability	2.4 I can identify the impact of licencing costs associated with cloud systems	3.4 I can research and match findings to the requirements of different needs and expectations
1.5 I can research and describe the benefits of an AWS Cloud system for the economy of scale value	2.5 I can analyse the which operations will benefit by transition to an AWS cloud system	
1.6 I can describe additional benefits of an AWS cloud system.		

Level 3, Unit 2 – AWS Cloud Systems (6 credits)

1. Understand the AWS Cloud Technologies	2. Understand AWS infrastructure	3. Investigate and understand AWS Cloud Services
1.1 I can describe the ways available to provision and operate an AWS cloud system	2.1 I can explain the benefits of a global infrastructure.	3.1 I can analyse and describe the categories of service available for AWS cloud services
1.2 I can research and define cloud deployment models	2.2 I can identify the AWS regional relationship, including availability zones and edge locations	3.2 I can research and document the benefits of Auto Scaling
1.3 I can research and describe the cloud connectivity option of VPN Including Virtual Private Networks	2.3 I can research the benefits that availability zones bring to a cloud system	3.3 I can research and document the benefits of Load Balancing
1.4 I can research and describe the cloud connectivity option of AWS Direct Connect	2.4 I can explain when the use of multiple regions would be beneficial	3.4 I can identify the types of AWS storage services available for cloud systems
1.5 I can research and describe the cloud connectivity option of Public Internet		3.5 I can identify the types of AWS network services available for cloud systems
		3.6 I can identify the types of AWS database services available for cloud systems
		3.7 I can research the technology support resources available for AWS cloud systems

Level 3, Unit 3 – AWS Cloud Security and Compliance (6 credits)

1. Define a shared responsibility model	2. Understand AWS Cloud compliance	3. Working with Access Management	4. Understand AWS Cloud Security
1.1 I can identify the AWS shared responsibility model	2.1 I can demonstrate how to locate the latest documentation on AWS compliance that are applicable for my project	3.1 I can understand the purpose of user and identity management	4.1 I can define the different needs for security capabilities
1.2 I can describe the responsibility of the customer for AWS systems	2.2 I can describe how AWS compliance may vary across the AWS systems used	3.2 I can research and identify password and access key policies	4.2 I can research and describe the network security capabilities available through AWS systems
1.3 I can understand the changes that may affect customer responsibility for AWS systems	2.3 I can analyse how customers can research and apply the AWS compliance that relates to their needs	3.3 I can describe what is meant by a Multi Factor Authentication (MFA)	4.3 I can research and describe a range of the 3 rd party security products that are available
1.4 I can describe the AWS responsibilities	2.4 I can describe the reporting and auditing system available for an AWS Systems	3.4 I can describe the security benefits that Multi Factor Authentication adds to Cloud based security protocols	4.4 I can demonstrate how to locate the latest documentation on AWS best practises
	2.5 I can define the principles of least privileged access	3.5: I can describe the security benefits that Multi Factor Authentication adds to Cloud based security protocols	4.4 I can identify how security checks are a necessary part of the AWS systems.
		3.6 I can identify when root accounts are needed and how the protection of roots accounts is paramount.	

Level 3, Unit 4 – AWS Real World Projects (6 credits)

1. Research and plan a real-world project to apply theoretical knowledge of AWS systems in a practical way	2. Analyse the service and security requirements for an AWS solution	3. Describe the applications and data requirements needed in line with client needs and expectations and to cope with scaling and flexibility	4. Produce an AWS solution project based on my research and understanding to meet the client's needs
1.1 I can state the aims and objectives of an AWS system project	2.1 I can identify the service requirements for an appropriate AWS system	3.1 I can identify the requirements for an AWS project	4.1 I can define a working AWS system to satisfy the client's needs and objectives set out in the planning process
1.2 I can show a real need for an AWS system solution	2.2 I can identify the security requirements of the client for an AWS system	3.2 I can compare and explain the pricing models for an AWS solutions	4.2 I can describe how to test and evaluate the solution to meet the client's needs
1.3 I can define the client base	2.3 I can produce an outline plan for the project of using an AWS solution	3.3 I can identify resources available for AWS pricing models	4.3 I can describe how to evaluate the solution with respect to local conventions and legal requirements
1.4 I can describe the AWS responsibilities	2.4 I can identify the compliance requirements for an AW solution	3.4 I can describe how tags are used in AWS cost allocations	
1.5 I can provide a list of possible alternative or variations in the solutions	2.5 I can identify the security requirements for an AW solution	3.5 I can identify the various account structures available in an AWS solution	
1.6 I can evaluate the alternatives or variations of viable options			