Course Contents

		Lecture	Digital Training	Exercise & Lab	Knowledge Check
AWS Review (optional)		60 min.			
Lecture	Introduction to the AWS Cloud				
Lecture	Overview of AWS Infrastructure				
Lecture	Running Applications in the Cloud				
Lecture	Introduction to Amazon EC2, Elastic Load				
	Balancing, and Amazon EC2 Auto Scaling				
Lecture	Introduction to Serverless Computing with AWS Lambda				
Lecture	From Monoliths to Microservices				
Lecture	Best Practices				
Module 1 - Welcom	e to Academy Cloud Developing (ACD)	60 min.			
Lecture	Course Prerequisites, objectives, and overview				
Lecture	AWS Training Portal				
Lecture	Lab Environment				
Lecture	AWS Free Tier (optional)		+		
Lecture	AWS Educate (optional)				
Activity	AWS Documentation Scavenger Hunt				
Module 2 – Introduction to Developing on AWS		120 min.			15 min.
Lecture	Systems Development Lifecycle				20
Lecture	Steps to Get Started Developing on AWS		+		
Lecture	Working with AWS SDKs				
Lecture	Errors and Exceptions		+		
Lecture	Introduction to AWS X-Ray				
Lecture	Introduction to Amazon CloudWatch and				
Lecture	AWS CloudTrail				
Devops	Devops				
Lab	Introduction to Devops				
Knowledge Check					
Module 3 – Introduction to AWS Identity and Access		120 min.			15 min.
Management (IAM)					
Lecture	Shared Responsibility Model				
Lecture	Overview of IAM				
Lecture	Authentication with IAM				
Lecture	Authorization with IAM				
Educator Demo	Create an IAM User and IAM Group				
Knowledge Check					
Module 4 – Developing Storage Solutions with Amazon S3		120 min.			15 min.
Lecture	Introduction to Amazon S3				
Lecture	Creating Amazon S3 Buckets				
Lecture	Working with Amazon S3 Objects				
Lecture	Protecting Data and Managing Access to Amazon S3 Resources				
Lab	Developing with Amazon S3 using the AWS SDK				
Knowledge Check					

Course Contents

		Lecture	Digital Training	Exercise & Lab	Knowledge Check
Microsoft Azure Re	view (optional)	60 min.			
Lecture	Introduction to the Azure Cloud				
Lecture	Overview of Azure Infrastructure				
Lecture	Running Applications in the Cloud				
Lecture	Introduction to Virtual machines, Load				
Balancing, and Virtua	I machines Auto Scaling				
Lecture	Introduction to Serverless Computing with Function				
Lecture	From Monoliths to Microservices				
Lecture	Best Practices				
Module 1 - Welcom	e to Academy Cloud Developing (ACD)	60 min.			
Lecture	Course Prerequisites, objectives, and overview				
Lecture	Azure Training Portal				
Lecture	Lab Environment		1		
Lecture	Azure Free Tier				
(optional) Lecture	Azure Educate (optional)				
Activity	Az Documentation Scavenger Hunt				
	ction to Developing on Azure	120 min.			15 min.
Lecture	Systems Development Lifecycle				_
Lecture	Steps to Get Started Developing on Azur				
Lecture	Working with Azure SDKs				
Lecture	Errors and Exceptions				
Lecture	Introduction to Azur X-Ray				
Lecture	Devops topic Devops				
Lab			+		
Knowledge Check					
	tion to AWS Identity and Access				
Management (IAM)	,	120 min.			15 min.
Lecture	Shared Responsibility Model				
Lecture	Overview of IAM				
Lecture	Authentication with IAM				
Lecture	Authorization with IAM				
Educator Demo	Create an IAM User and IAM Group				
Knowledge Check					
Module 4 – Develop	ing Storage Solutions Azure Storage				
Lecture	Introduction to Block Storage	120 min.			15 min.
Lecture	Creating Azure Block Storage				
Lecture	Working with Block Storage				
Lecture	Protecting Data and Managing Access to				
	Azure storage Resources				
Lab	Developing with Azure Storage using				
Knowledge Check	the Azure SDK				