

Detailed Course Curriculum

Developing on AWS

Duration: 4.5 Days

Price:

AWS Certified Developer – Associate level \$4,040 SGD + GST

AWS Certified Developer Associate Exam Voucher \$210 SGD + GST

Total - \$4,250 SGD + GST

Delivery Method: AWS Instructor-Led

Intended Audience:

This course is intended for:

- Intermediate-level software developers

Course Description

Day 1 - AWS Technical Essentials introduces you to AWS products, services, and common solutions. It provides IT technical end users with basic fundamentals to become more proficient in identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements and get started on AWS.

Course Objectives - This course is designed to teach you how to:

Understand basic data centre design concepts

Recognise terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console

Understand the foundational infrastructure services, including Amazon Virtual Private cloud (VPC), Amazon Elastic Compute Cloud (EC2), Amazon Elastic Block Store (EBS), Amazon Simple Storage Service (S3), Auto Scaling, and Elastic Load Balancing (ELB)

Understand the security measures AWS provides and key concepts of AWS Identity and Access Management (IAM)

Understand AWS database services, including Amazon DynamoDB and Amazon Relational Database Service (RDS).

Understand AWS management tools, including Amazon CloudWatch and AWS Trusted Advisor

Day 2–4 – Developing on AWS Developing on AWS helps developers understand how to use the AWS SDK to develop secure and scalable cloud applications. The course provides in-depth knowledge about how to interact with AWS using code and covers key concepts, best practices, and troubleshooting tips.

Course Objectives: This course is designed to teach you how to:

- Set up the AWS SDK and developer credentials for Java, C#/.Net, Python, and JavaScript.
- Use the AWS SDK to interact with AWS services and develop solutions.
- Use Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB as data stores.
- Integrate applications and data by using Amazon Kinesis, AWS Lambda, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), and Amazon Simple Workflow Service (Amazon SWF).
- Use AWS Identity and Access Management (IAM) for service authentication.
- Use Web Identity Framework and Amazon Cognito for user authentication.
- Use Amazon ElastiCache and Amazon CloudFront to improve application scalability.
- Deploy applications by using AWS Elastic Beanstalk and AWS CloudFormation.

Day 5 – AWS Certification Exam Readiness Workshop – Developing Associate is designed to complement Developing on AWS. It is intended for individuals who are preparing for the AWS Certified Developers Associate exam.

In this workshop, we review what to expect at the testing centre and while taking the exam. We walk you through how the exam is structured, including question formats, content domains, and the breakdown of questions across those domains. We also teach you how to interpret the concepts being tested by a question so that you can better eliminate incorrect responses. During the workshop, you will have the chance to apply knowledge and test concepts through a series of practice exam questions.

Course Objectives - This course is designed to teach you how to:

- Navigate the logistics of the examination process
- Understand the exam structure and question types
- Identify how questions are written to test AWS developing concepts
- Interpret the concepts being tested by an exam question

Course Outline:

Day 1 - AWS Technical Essentials

- Introduction and History of AWS
- AWS Infrastructure: Compute, Storage, and Networking
- AWS Security, Identify, and Access Management
- AWS Database
- AWS Management Tools

Day 2 – Developing on AWS (1 of 3 days)

Introduction to Developing on AWS
Choosing a Data Store
Developing Storage Solutions with Amazon S3
Developing Flexible NoSQL Solutions with Amazon DynamoDB

Day 3 – Developing on AWS (2 of 3 days)

- Working with Events
- Developing Event-Driven Solutions with Amazon Kinesis Stream
- Developing Event-Driven Solutions with Amazon SWF, Amazon SQS, and Amazon SNS
- Developing Event-Driven Solutions with AWS Lambda

Day 4 – Developing on AWS (3 of 3 days)

- Developing Secure Applications
- Caching Information for Scalability
- Monitoring Your Application and AWS Resources with Amazon CloudWatch
- Deploying Applications with AWS Elastic Beanstalk and AWS CloudFormation

Day 5 - AWS Certification Exam Readiness Workshop Developer Associate Level

- Testing Centre Information and Expectations
- Exam Overview and Structure
- Content Domains and Question Breakdown
- Topics and Concepts with Content Domains
- Question Structure and Interpretation Techniques
- Post class – Practice Exam Questions
- Inclusive of 01 Actual exam voucher