

Detailed Course Curriculum

System Operations on AWS

Duration: 4.5 Days

Price:

AWS Certified System Operator Associate Level \$4,040 SGD + GST

AWS Associate Exam Voucher \$210 SGD + GST

Total - \$4,250 SGD + GST

Delivery Method: AWS Instructor-Led

Intended Audience:

This course is intended for:

- System Administrators
- Software Developers, especially those in a Developer Operations (DevOps) role

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 – System Operations on AWS *System Operations on AWS* is designed to teach those in a Systems Administrator or Developer Operations (DevOps) role how to create automatable and repeatable deployments of networks and systems on the AWS platform. The course covers the specific AWS features and tools related to configuration and deployment, as well as common techniques used throughout the industry for configuring and deploying systems.

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

- Use standard AWS infrastructure features such as Amazon Virtual Private Cloud (VPC), Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing, and Auto Scaling from the command line.
- Use AWS CloudFormation and other automation technologies to produce stacks of AWS resources that can be deployed in an automated, repeatable fashion.
- Build functioning virtual private networks with Amazon VPC from the ground up using the AWS Management Console.
- Deploy Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances.
- Monitor the health of Amazon EC2 instances and other AWS services.
- Manage user identity, AWS permissions, and security in the cloud.
- Manage resource consumption in an AWS account using tools such as Amazon CloudWatch, tagging, and Trusted Advisor.
- Select and implement the best strategy for creating reusable Amazon EC2 instances.
- Configure a set of Amazon EC2 instances that launch behind a load balancer, with the system scaling up and down in response to demand.
- Edit and troubleshoot a basic AWS CloudFormation stack definition.

Day 5 – AWS Certification Exam Readiness Workshop – System Operator Associate Level is designed to complement Systems Operations on AWS. It is intended for individuals who are preparing for the AWS Certified System Operator 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 System Operation 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 – System Operations on AWS (1 of 3 days)

- System Operations on AWS
- Computing on AWS
- Networking on AWS

Day 3 – System Operations on AWS (2 of 3 days)

- Storage and Archiving in the Cloud
- Monitoring in the Cloud
- Managing Resource Consumption in the Cloud

Day 4 – System Operations on AWS (3 of 3 days)

- Configuration management in the Cloud
- Creating Scalable Deployments in the Cloud
- Creating Automated and Repeatable Deployments

Day 5 - AWS Certification Exam Readiness Workshop System Operations 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