

# **AWS Certified Sysops Administrator - Associate**

## **(Cloud Operations on AWS)**

**Course Duration: 24 Hours**

**Course Code: AWS-SYSOPS-A**

### **1. Course Overview**

The **AWS Certified SysOps Administrator – Associate (Cloud Operations on AWS)** course is designed to help learners gain the technical expertise required to manage and operate systems on the AWS cloud platform. This course focuses on deploying, managing, and operating scalable, highly available, and fault-tolerant systems, as well as automating tasks to support business goals. It prepares learners for the AWS SysOps Administrator – Associate certification exam.

### **2. What You'll Learn?**

By the end of this course, participants will be able to:

- Understand core AWS services, features, and best practices for cloud operations.
- Monitor, report, and automate AWS resource usage.
- Implement and manage security and compliance policies.
- Perform backup, restore, and disaster recovery processes.
- Manage costs and optimize workloads on AWS.
- Troubleshoot operational issues and ensure high availability.

### **3. Target Audience**

This course is ideal for:

- System Administrators and Operations Managers.

- IT professionals responsible for managing cloud resources.
- DevOps engineers looking to enhance AWS operational skills.
- Individuals preparing for the **AWS Certified SysOps Administrator – Associate exam**.

## 4. Pre-Requisites

Participants should have:

- Basic understanding of AWS services and the AWS Management Console.
- Experience with system administration, networking, and security concepts.
- Completion of **AWS Cloud Practitioner Essentials** (recommended but not mandatory).
- Familiarity with command-line tools and scripting is an advantage.

## 5. Course Content

### **Module 1: Introduction to Cloud Operations on AWS**

- Overview of AWS cloud operations
- AWS shared responsibility model

### **Module 2: Monitoring, Reporting, and Automation**

- AWS CloudWatch, CloudTrail, and Config
- Setting up alerts, dashboards, and automated actions

### **Module 3: Deployment, Provisioning, and Management**

- Elastic Load Balancing and Auto Scaling
- AWS Systems Manager and CloudFormation

### **Module 4: Security and Compliance Management**

- IAM roles, policies, and access controls
- AWS security best practices

### **Module 5: Networking and Connectivity**

- VPC, subnets, and route tables
- Configuring VPNs and Direct Connect

### **Module 6: Data Management and Storage Operations**

- Managing S3 buckets, EBS, and EFS
- Backup and restore strategies

### **Module 7: High Availability, Resiliency, and Troubleshooting**

- Designing fault-tolerant systems
- Troubleshooting common operational issues

### **Module 8: Cost Management and Optimization**

- AWS Cost Explorer and Budgets
- Rightsizing and workload optimization

### **Module 9: Exam Preparation and Practice**

- Exam structure and tips
- Sample questions and hands-on practice