CLOUD OPERATIONS ON AWS (FORMERLY SYSTEMS OPERATIONS)

Course Code: 4503

Learn how to manage and operate automatable and repeatable deployments of networks and systems on AWS.

This course teaches systems operators and anyone performing cloud operations functions how to manage and operate automatable and repeatable deployments of networks and systems on AWS. You will learn about cloud operations functions, such as installing, configuring, automating, monitoring, securing, maintaining, and troubleshooting these services, networks, and systems. The course also covers specific AWS features, tools, and best practices related to these functions.

What You'll Learn

This course is designed to teach you how to:

- Identify the AWS services that support the different phases of Operational Excellence, an AWS Well-Architected Framework pillar
- Manage access to AWS resources using AWS accounts and organizations and AWS Identity and Access Management (IAM)
- Maintain an inventory of in-use AWS resources by using AWS services, such as AWS Systems Manager, AWS CloudTrail, and AWS Config
- Develop a resource deployment strategy using metadata tags, Amazon Machine Images (AMIs), and AWS Control Tower to deploy and maintain an AWS cloud environment
- Automate resource deployment by using AWS services, such as AWS CloudFormation and AWS Service Catalog
- Use AWS services to manage AWS resources through CloudOps lifecycle processes, such as deployments and patches
- Configure a highly available cloud environment that uses AWS services, such as Amazon Route 53 and Elastic Load Balancing, to route traffic for optimal latency and performance
- Configure AWS Auto Scaling and Amazon EC2 Auto Scaling to scale out your cloud environment based on demand
- Use Amazon CloudWatch and associated features, such as alarms, dashboards, and widgets, to monitor your cloud environment
- Manage permissions and track activity in your cloud environment by using

AWS services, such as AWS CloudTrail and AWS Config
- Deploy your resources to an Amazon Virtual Private Cloud (Amazon VPC), establish necessary connectivity to your Amazon VPC, and protect your resources from disruptions of service
- State the purpose, benefits, and appropriate use cases for mountable storage in your AWS Cloud environment
- Explain the operational characteristics of object storage in the AWS Cloud, including Amazon Simple Storage Service (Amazon S3) and Amazon S3 Glacier
- Build a comprehensive cost model to help gather, optimize, and predict your cloud costs by using services such as AWS Cost Explorer and the AWS Cost & Usage Report

Who Needs to Attend
- Systems administrators
- Software developers, especially those in a DevOps role

Prerequisites

We recommend that attendees of this course have the following prerequisites:
- Successfully completed the AWS Technical Essentials course
- A background in software development or systems administration
- Proficiency in maintaining operating systems at the command line, such as shell scripting in Linux environments or cmd/PowerShell in Windows
- Basic knowledge of networking protocols (TCP/IP, HTTP)
  AWS Technical Essentials

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CLASSROOM LIVE	$2,665 CAD	3 Day

Classroom Live Outline

Day 1

- Module 1: Introduction to Cloud Operations on AWS
- Module 2: Access Management
- Module 3: System Discovery
- Module 4: Deploy and Update Resources
- Module 5: Automate Resource Deployment

Day 2

- Module 6: Manage Resources
- Module 7: Configure Highly Available Systems
- Module 8: Automate Scaling
- Module 9: Monitor and Maintain System Health
- Module 10: Data Security and System Auditing

Day 3

- Module 11: Operate Secure and Resilient Networks
- Module 12: Mountable Storage
- Module 13: Object Storage
- Module 14: Cost Reporting, Alerts, and Optimization

Classroom Live Labs

This course will be delivered through a mix of:

- Instructor-led Training (ILT)
- Hands-on Labs

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VIRTUAL CLASSROOM LIVE	$2,665 CAD	3 Day

Virtual Classroom Live Outline

Day 1

- Module 1: Introduction to Cloud Operations on AWS
- Module 2: Access Management
- Module 3: System Discovery
- Module 4: Deploy and Update Resources
- Module 5: Automate Resource Deployment

Day 2

- Module 6: Manage Resources
- Module 7: Configure Highly Available Systems
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Jan 20 - 22, 2026 | 8:30 AM - 4:30 PM EST

Mar 16 - 18, 2026 | 8:30 AM - 4:30 PM EDT

May 26 - 28, 2026 | 8:30 AM - 4:30 PM EDT

Jul 20 - 22, 2026 | 8:30 AM - 4:30 PM EDT

Sep 21 - 23, 2026 | 8:30 AM - 4:30 PM EDT

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PRIVATE GROUP TRAINING	3 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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