



S Y L L A B U S

AWS Certification Training

Duration: 5 Days (Total: 20 Hours)

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1.0 Course Overview

This training module provides a foundational yet practical introduction to **Amazon Web Services (AWS)** aligned with the **AWS Certified Cloud Practitioner** or **AWS Solutions Architect – Associate** exams. Participants will explore core services, design principles, pricing models, and security best practices in the AWS environment through lectures and guided hands-on labs.

2.0 Learning Outcomes

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

- Understand the core concepts of cloud computing and AWS
- Navigate and utilize AWS core services
- Build and manage basic cloud infrastructure (EC2, S3, VPC)
- Implement security, monitoring, and cost management tools
- Prepare confidently for AWS certification exams

3.0 Training Methodology

- Instructor-Led Interactive Lectures
- Live Console Demonstrations
- Guided Labs & Hands-on Practice
- Group Discussions and Case Scenarios
- Quizzes and Certification Practice Tests
- AWS Console + Cloud Practitioner Sandbox

4.0 Introduction to Cloud Computing and AWS (3 Hours)

Objectives:

- Introduce cloud computing concepts and AWS ecosystem
- Explore AWS's global infrastructure and service models

Topics Covered:

- What is Cloud Computing? – IaaS, PaaS, SaaS
- Benefits of Cloud (Scalability, Reliability, Global Reach)
- AWS Overview – History, Growth, Services
- AWS Regions, Availability Zones, and Edge Locations
- AWS Free Tier and Account Setup

Activities:

- Group Discussion: Cloud use in real-world businesses
- Lab: Create a free AWS account
- Quiz: Cloud basics and AWS facts

5.0 Core AWS Services and Global Infrastructure (3 Hours)

Objectives:

- Learn the essential services powering AWS operations
- Understand the AWS Management Console and CLI

Topics Covered:

- EC2, S3, RDS, VPC, IAM, Lambda
- Elastic Load Balancing and Auto Scaling
- AWS Marketplace, CloudFormation
- AWS Management Console Walkthrough
- AWS CLI & SDK Intro

Activities:

- Lab: Create an EC2 instance and connect via SSH
- Demo: Explore S3 buckets and permissions
- Group Exercise: Match services to use cases

6.0 Compute, Storage, and Networking in AWS (4 Hours)

Objectives:

- Gain hands-on experience in deploying compute and storage solutions
- Understand AWS networking fundamentals

Topics Covered:

- EC2 Deep Dive: Types, AMIs, Key Pairs, Elastic IP
- S3 Advanced: Versioning, Lifecycle Policies, Public/Private Access
- EBS and EFS: Block vs File Storage
- Virtual Private Cloud (VPC) and Subnets
- Internet Gateways, NAT, Security Groups, NACLs

Activities:

- Lab: Launch an EC2 with custom VPC
- Scenario: Design a 3-tier architecture
- Task: Create S3 bucket with access policies

7.0 Security, Identity, and Compliance (3 Hours)

Objectives:

- Secure cloud environments using IAM and encryption tools
- Understand AWS's shared responsibility model

Topics Covered:

- Identity and Access Management (IAM): Users, Roles, Policies
- MFA and IAM Best Practices
- AWS Shield, WAF, and GuardDuty
- Key Management Service (KMS) and Encryption
- Compliance Frameworks: HIPAA, GDPR, ISO

Activities:

- Lab: Create IAM roles and policies
- Discussion: How AWS handles security breaches
- Role Play: Troubleshooting permission denial

8.0 Monitoring, Pricing, and Support Plans (3 Hours)

Objectives:

- Monitor resources and optimize cost with AWS tools

Topics Covered:

- CloudWatch: Metrics, Alarms, Dashboards
- CloudTrail: Logging API Calls
- Trusted Advisor: Optimization Checks
- AWS Pricing Models: On-Demand, Reserved, Spot
- Billing Dashboard, Budgets, and Cost Explorer
- AWS Support Plans Overview

Activities:

- Lab: Set up CloudWatch alerts
- Task: Estimate cost using AWS Pricing Calculator
- Quiz: Support tiers and cost management tools

9.0 Certification Preparation & Practice (2 Hours)

Objectives:

- Prepare learners for AWS exam environments and question types

Topics Covered:

- AWS Certified Cloud Practitioner Overview
- AWS Solutions Architect Associate Overview
- Tips for Exam Success and Study Resources

- Practice Questions & Time Management
- AWS Skill Builder Platform and Whitepapers

Activities:

- Mock Test: 15–20 sample certification questions
- Group Challenge: Scenario-based Q&A
- Feedback: Peer learning session

10.0 Conclusion and Wrap-Up (1 Hour)

Key Takeaways:

- Recap of core concepts and tools
- Pathways to AWS Associate and Specialty Certifications
- Career guidance and project ideas

Final Activities:

- Group Presentation: Cloud Architecture Design
- Certificate Distribution
- Training Feedback Forms