

## AWS Developer Associate Certification Training



Unichrone



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# About Unichrone

We are a professional training institute with an extensive portfolio of professional certification courses. Our training programs are meant for those who want to expand their horizons by acquiring professional certifications across the spectrum. We train small- and medium-sized organizations all around the world, including in USA, Canada, Australia, UK, Ireland and Germany.



Guaranteed Quality



Handpicked Trainers



Global Presence



Online Training Option

We've trained professionals across global companies

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# Unichrone Training Advantages

- 4-day interactive instructor-led training program
- Expert Trainer with International Expertise
- Copy of courses content provided
- Global recognitions and approvals
- Interactive sessions with case studies
- Practice Tests with detailed answers and explanations
- Training Fees includes certification exam price

# AWS Developer Associate Certification Advantages



# Importance of AWS Developer Associate Certification

This immersive four day workshop on AWS Developer Associate offers in-depth knowledge on designing, developing, and deploying cloud-based solutions using AWS. Hands-on lab exercises will give you practical expertise in building reliable and scalable AWS applications written for Amazon Simple Storage Service, Amazon DynamoDB, Amazon Simple Queue Service, Amazon Simple Notification Service, Amazon Simple Workflow Service, AWS Elastic Beanstalk, and AWS Cloud Formation. You will learn how to interact with AWS using code, and get a thorough understanding of key concepts, best practices, and troubleshooting.

## ELIGIBILITY CRITERIA

There are no pre-requisites to take up AWS Training and Exam.

## WHO SHOULD ATTEND

Software Developers, Devops Engineers, Linux/Unix Implementation Engineers or Administrators, Cloud Architects and Developers



# Syllabus of AWS Developer Associate Certification Training

- **Cloud Fundamentals**

**Understanding of Cloud Computing and AWS Overview**

- What is Cloud Computing
- AWS Fundamentals
- AWS Platform & Services
- AWS Regions & Availability Zones

- **Security Services**

**Understand securing the platform using IAM services**

- Setup of AWS Account
- Setup Boto3 for Python SDK
- (Optional) - Setup of .Net SDK with Visual Studio
- IAM Principles
- Creating Users
- Roles
- Enabling Credentials
- Access Keys & Secret Keys
- Security & Policies
- Exam Essential



# Syllabus of AWS Developer Associate Certification Training

## ● Compute Services

Understand EC2 compute service of AWS and Launch Instances with Volumes, Images

- EC2 Types
- Launching EC2 Instances using Python Boto3 or .Net SDK
- EBS Volumes & Types
- EBS Encryption
- Creating AMIs
- EBS Snapshots & AMIs
- Lab Exercise 4: Launching AMI using snapshots
- Summary of EC2 Services
- Exam Essentials

## ● Networking

Create your own private Cloud and manage infrastructure in the cloud

- Amazon Virtual Private Cloud Basics
- Subnets
- Route Tables
- Security Groups (ACLs & NACL)
- Internet Gateways
- AWS Direct Connect
- Bastion Host/NAT Instances
- NAT Gateways
- EIP & ENIs
- VPG, CGW, VPN
- VPC Peering
- Summary



# Syllabus of AWS Developer Associate Certification Training

## ● Application Services

Understanding of use of SQS in decoupling applications. Gain deeper knowledge on APIs, Messages and Errors for application services

- SNS Overview
- SNS Messages
- SNS APIs and Errors
- SQS Overview
- SQS Polling and Messaging
- SQS Messages
- SQS API Actions
- SWF Overview
- Exam Essentials

## ● Storage Services

Understand the use of S3 as storage service

- Object Vs Block Storage
- S3 Basics
- Bucket Policies & Access Control Lists
- S3 Advanced Features
- Versioning
- AWS Glacier
- Cross Region Replication
- CORS
- Transfer Acceleration
- Multipart Upload
- LifeCycle Policies
- Archives

# Syllabus of AWS Developer Associate Certification Training

- **Data Management**

Understand AWS database services and their use cases

- AWS RDS
- Read Replica
- Snapshots
- Restoring Snapshots
- Multi-AZ Deployment
- DynamoDb Overview
- Throughput model of Dynamodb service
- LSI and GSI Concepts
- Conditional Writes, Idempotency and Atomic Counters
- Errors and various Limits in DynamoDB

- **Deployment and Provisioning**

Gain Knowledge on Infra as a Code and managing infra with EBS services

- Infrastructure as Code using Cloud Formation
- Cloud formation – Create a new stack
- Create and deploy sample template in JSON format
- Lamba Deployment and Provisioning
- AWS ElasticBeanStalk Overview

# Syllabus of AWS Developer Associate Certification Training

## ● Monitoring and Metrics

Understand Monitoring Apps and Platform using various AWS services

- CloudWatch Introduction
- EC2 Status Troubleshooting
- Create A Cloud Watch Role
- Monitoring EC2 With Custom Metrics
- Monitoring EBSMonitoring RDS
- Billing & Alerts
- Monitoring ELB
- Monitoring Elasticache
- Monitoring RDS
- Centralized Monitoring Servers
- Consolidated Billing
- Cost optimization

## ● API Gateways and Step Functions

Understand API Gateways and Step Functions

- Api Gateway Essentials
- Gateway deployment and various stages
- Gateway Throttling, Caching
- Gateway errors
- Monitoring API Gateways
- Step Function Types and transitions

# Syllabus of AWS Developer Associate Certification Training

- **AWS Developer Tools**

Understand the developer tools used in AWS Pipeline to integrate with existing CI/CD pipelines.

- AWS Code Commit
- AWS Code Build
- AWS Code Deploy
- AWS Code Pipeline
- AWS Code Star
- X-Ray

# Contact Us

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