DEVELOPING SERVERLESS SOLUTIONS ON AWS CERTIFICATION

As per International Standards

UNICHRONE

Unichrone Training Advantages

✔ 2 Day Interactive Instructor –led Online/Classroom or Group Training

✔ Course study materials designed by subject matter experts

✔ Mock Tests to prepare in a best way

✔ Highly qualified, expert & accredited trainers with vast experience

✔ Enrich with Industry best practices and case studies and present trends

✔ Developing Serverless Solutions on AWS Training Course adhered with International Standards

✔ End-to-end support via phone, mail, and chat

✔ Convenient Weekday/weekend Developing Serverless Solutions on AWS Training Course schedule

UNICHRONE

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

PHILIPS

AXCESS
FINACIAL PRODUCT MANAGEMENT

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AkerSolutions

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baycoat

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EMERSON

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sitel group

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LEAR CORPORATION

Importance of Developing Serverless Solutions on AWS Training

✓ Developing Serverless Solutions in AWS Certification provides developers with theoretical and practical knowledge along with tips and tricks to build, deploy, and maintain serverless architectures on AWS. Professionals focus on aspects like serverless architecture, event-driven computing, and the major AWS subjects, including AWS Lambda and API Gateway. The certification holders get to work through integrated labs, thus maintaining practical application of infrastructure as code using AWS and SAM.

✓ Discover how to lead change in the cloud development world with Developing Serverless Solutions on AWS Certification Training offered by Unichrone. This extensive training program helps developers learn the fundamentals of designing, implementing, and maintaining highly efficient and scalable serverless applications on AWS cloud infrastructure. The training program incorporates lecture sessions, lab exercises, and strategies that reflect the best practices of the industry, which help participants understand serverless architecture strategies, event-based programming paradigms, and significant AWS services like Lambda, API Gateway, and DynamoDB.

ELIGIBILITY CRITERIA

✔ Aspirants need not meet any requirements to pursue Developing Serverless Solutions on AWS Training Course. However, having prior knowledge is beneficial.

WHO SHOULD ATTEND

✔ Any individual who wants to gain skills to understand serverless solutions can enroll in the Developing Serverless Solutions on AWS Training course.

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DEVELOPING SERVERLESS SOLUTIONS ON AWS CERTIFICATION ADVANTAGES

CERTIFIES YOUR TALENT

HELPS BUILDING VALUES

GLOBAL RECOGNITION

PERFECT EXECUTION

BUILDS CUSTOMER LOYALTY

MORE EMPLOYABILITY OPTIONS

Syllabus of Developing Serverless Solutions on AWS Training

Lesson 01 – Thinking Serverless
1. Best Practices for Building Modern Serverless Applications
2. Event-Driven Design
3. AWS Services that Support Event-Driven Serverless Applications

Lesson 02 – API-Driven Development and Synchronous Event Sources
1. Work with Invitations
2. Create Member

Syllabus of Developing Serverless Solutions on AWS Training

Lesson 03 – Introduction to Authentication, Authorisation, and Access Control

1.	Authentication Vs Authorisation
2.	Options for Authenticating to APIs Using API Gateway
3.	Amazon Cognito in Serverless Applications
4.	Amazon Cognito User Pools Vs Federated Identities

Lesson 04 – Serverless Deployment Frameworks

1.	Overview of Imperative Vs Declarative Programming for Infrastructure as Code
2.	Comparison of CloudFormation, AWS CDK, Amplify, and AWS SAM Frameworks
3.	Features of AWS SAM and the AWS SAM CLI for Local Emulation and Testing

Syllabus of Developing Serverless Solutions on AWS Training

Lesson 05 – Using Amazon EventBridge and Amazon SNS to Decouple Components

1.	Development Considerations when Using Asynchronous Event Sources
2.	Features and Use Cases of Amazon EventBridge
3.	Exercise: Build a Custom EventBridge Bus and Rule
4.	Comparison of Use Cases for Amazon Simple Notification Service (Amazon SNS) Vs EventBridge
5.	Exercise: Configure an Amazon SNS Topic with Filtering

Lesson 06 – Event-Driven Development Using Queues and Streams

1.	Development Considerations When Using Polling Event Sources to Trigger Lambda Functions
2.	Distinctions Between Queues and Streams as Event Sources for Lambda
3.	Selecting Appropriate Configurations when Using Amazon Simple Queue Service (Amazon SQS) or Amazon Kinesis Data Streams as an Event Source for Lambda
4.	Exercise: Configure an Amazon SQS Queue with a Dead-Letter Queue as a Lambda Event Source Hands-On Labs
5.	Lab: Deploying a Simple Serverless Application
6.	Lab: Message Fan-Out with Amazon EventBridge

Syllabus of Developing Serverless Solutions on AWS Training

Lesson 07 – Writing Good Lambda Functions

1. How the Lambda Lifecycle Influences Your Function Code?

2. Best Practices for Your Lambda Functions

3. Configuring a Function

4. Function Code, Versions, and Aliases

5. Exercise: Configure and Test a Lambda Function

6. Lambda Error Handling

7. Handling Partial Failures with Queues and Streams

Lesson 08 – Step Functions for Orchestration

1. AWS Step Functions in Serverless Architectures

2. Exercise: Step Functions States

3. Callback Pattern

4. Standard Vs Express Workflows

5. Step Functions Direct Integrations

6. Exercise: Troubleshooting a Standard Step Functions Workflow

Syllabus of Developing Serverless Solutions on AWS Training

Lesson 09 – Using Amazon EventBridge and Amazon SNS to Decouple Components

1.	Three Pillars of Observability
2.	Amazon CloudWatch Logs and Logs Insights
3.	Writing Effective Log Files
4.	Exercise: Interpreting Logs
5.	Using AWS X-Ray for Observability
6.	Exercise: Enable X-Ray and Interpret X-Ray Traces
7.	CloudWatch Metrics and Embedded Metrics Format
8.	Exercise: Metrics and Alarms
9.	Exercise: ServiceLens Hands-On Labs
10.	Lab: Workflow Orchestration Using AWS Step Functions
11.	Lab: Observability and Monitoring

Lesson 10 – Event-Driven Development Using Queues and Streams

1.	Security Best Practices for Serverless Applications
2.	Applying Security at All Layers
3.	API Gateway and Application Security
4.	Lambda and Application Security
5.	Protecting Data in Your Serverless Data Stores
6.	Auditing and Traceability

Syllabus of Developing Serverless Solutions on AWS Training

Lesson 11 – Handling Scale in Serverless Applications

1.	Scaling Considerations for Serverless Applications
2.	Using API Gateway to Manage Scale
3.	Lambda Concurrency Scaling
4.	How Different Event Sources Scale with Lambda

Lesson 12 – Automating the Deployment Pipeline

1.	Importance of CI/CD in Serverless Applications
2.	Tools in a Serverless Pipeline
3.	AWS SAM features for Serverless Deployments
4.	Best Practices for Automation
5.	Lab: Securing Serverless Applications
6.	Lab: Serverless CI/CD on AWS

Exam Format of Developing Serverless Solutions on AWS Certification

Examination Format	
Exam Name	**Developing Serverless Solutions on AWS Exam**
Exam Format	Multiple Choice
Total Questions & Duration	30 Questions, 1 Hour
Passing Score	Minimum passing score of 70%
Exam Cost	Included in training fee

To get you fully prepared with the knowledge and skills for Developing Serverless Solutions on AWS, a training session at Unichrone gives immense importance to mock questions at the end of every module and problem-solving exercises within the session. Prepared by certified faculty, the practice tests are a true simulation of the Developing Serverless Solutions on AWS exam.

Contact Us

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