

AWS Certified Solutions Architect – Associate Training Course

AWS Certified Solutions Architect – Associate is a globally recognized certification that demonstrates expertise in designing distributed systems on AWS, emphasizing best practices and foundational cloud concepts.

 CLO-200

Course Outcomes

Professional, practical, & hands-on live instructor-led training

Further your skills and graduate as a certified professional, with the skills, experience, and job-search know how to get your career started.

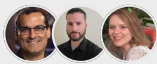
 **Start Today**

Potential Career Tracks

AWS Solutions Architect Cloud Consultant

Cloud Systems Administrator Cloud Engineer

IT Operations Engineer DevOps Engineer



Taught by Industry Veterans &
World Class Instructors

Introduction to AWS Certified Solutions Architect – Associate

Course Overview

Intellectual Point's AWS Certified Solutions Architect – Associate Training Course is meticulously designed to equip you with the necessary skills and knowledge to design robust and secure applications on the AWS platform. This comprehensive course offers in-depth coverage of AWS services and solutions, preparing you for the AWS Certified Solutions Architect – Associate exam. You will engage with real-world scenarios and hands-on labs, allowing you to develop practical expertise in cloud architecture. By the end of this course, you will be proficient in designing scalable, cost-efficient cloud architectures and have the confidence to tackle the certification exam.

Throughout the training, you will explore AWS core services, including computing, storage, networking, and database essentials. The program provides you with the opportunity to learn about architectural best practices and strategies for deploying applications effectively on the AWS cloud. You will apply these skills in practical labs to design and implement secure, high-performing, resilient, and efficient architectures.

Obtainable Skills

AWS Compute Services Management

Cost Optimization Strategies

Database Management on AWS

Storage Deployment and Management

Network Configuration and Optimization

Secure Design Principles for Cloud Architecture

Identity and Access Management (IAM) Configuration

Monitoring and Logging of AWS Resources

Disaster Recovery and Fault Tolerance

Course Insights

Audience Profile

This course is aimed at IT professionals, solutions architects, and developers with a foundational understanding of cloud computing who are eager to deepen their expertise in AWS cloud architecture. It is especially beneficial for those wishing to pursue or enhance a career as an AWS solutions architect, cloud engineer, or systems administrator. Professionals who want to validate their AWS skills with an industry-recognized certification will find this training particularly advantageous. The course attracts learners interested in leveraging AWS technologies for business optimization and cloud innovation.

Course Outcomes

By the end of this course, participants will:

1 Design and deploy fault-tolerant and scalable cloud applications on AWS.

2 Implement cost-effective strategies for resource allocation and utilization in AWS environments.

3 Utilize AWS best practices to create secure and compliant IT architectures.

4 Master the AWS Management Console and services to administer cloud solutions efficiently.

5 Achieve preparedness for the certification exam, enhancing career opportunities.

Module by Module Learning *Outline*

 **6 Modules**

Module 1: Introduction to AWS and Core Service Overview

Learning Objectives:

- Understand the AWS Global Infrastructure and Core Services.
- Learn how to navigate the AWS Management Console efficiently.

Topics Covered

Introduction to AWS:

- Overview of AWS Global Infrastructure: Regions, Availability Zones.
- Introduction to the AWS Management Console.

Core AWS Services:

- Compute, Storage, Networking, and Database Services Overview.
- Key AWS Services: EC2, S3, RDS, VPC.

Module 2: Designing Resilient Architectures

Learning Objectives:

- Design architectures that are resilient and fault tolerant.
- Apply best practices for high availability and disaster recovery.

Topics Covered

High Availability and Fault Tolerant Design:

- Concepts of Elastic Load Balancing and Autoscaling.
- Implementing MultiAZ and MultiRegion Architectures.

Disaster Recovery Planning:

- Backup and Restore Strategies.
- CrossRegion Replication and Failover Techniques.

Module 3: Secure Applications and Architectures

Learning Objectives:

- Implement identity and access management in AWS environments.
- Design secure and compliant IT architectures using AWS services.

Topics Covered

Identity and Access Management (IAM):

- Configuring IAM Roles, Users, and Policies.
- Best Practices for Secure IAM Implementation.

Security Best Practices:

- Data Encryption at Rest and in Transit.
- Securing Applications with VPC and Security Groups.

Module 4: Optimizing Cloud Architecture

Learning Objectives:

- Develop strategies for cost efficient cloud infrastructure.
- Optimize network performance and storage solutions on AWS.

Topics Covered

Cost Management and Optimization:

- Pricing Models and Cost Explorer for Monitoring.
- Implementing Reserved Instances and Spot Instances.

Enhancing Performance:

- Improving Network Performance using AWS Direct Connect and CloudFront.
- Optimizing Storage Solutions with EBS and S3 Lifecycle Policies.

Module 5: Monitoring and Management of AWS Resources

Learning Objectives:

- Master the monitoring and logging tools available in AWS.
- Manage and troubleshoot AWS architectures efficiently.

Topics Covered

AWS Monitoring Tools:

- Utilizing CloudWatch for Resource Monitoring.
- Setting up Alarms and Metrics for Applications.

Logging and Auditing:

- Configuring CloudTrail for Audits.
- Integrating with AWS Config for Compliance Analysis.

Module 6: HandsOn Practicals and Exam Preparation

Learning Objectives:

- Gain practical experience through hands on lab exercises.
- Prepare effectively for the AWS Certified Solutions Architect Associate exam.

Topics Covered

HandsOn Lab Exercises:

- Deploying Scalable Web Applications using Elastic Beanstalk.
- Setting Up and Configuring AWS Lambda for Serverless Applications.

Exam Preparation Strategies:

- Reviewing Key Exam Topics and Sample Questions.
- Tips and Techniques for Exam Success.