AWS Solutions Architect Certification Training (Option 1)

Table of Contents:

Program Overview

Program Features

Delivery Mode

Prerequisites

Target Audience

Key Learning Outcomes

Certification Details and Criteria

Course Curriculum

Course end Projects

Tools/Services Covered

UpSkill YourSelf
Learn • Earn • Grow

325 W Washington
St Suite 2#3086
San Diego, CA 92103
United States

Program Overview:

AWS Solutions Architect Certification training will enable you to design, plan, and scale AWS implementations utilising more than 70 cloud computing services. This course is aligned with the latest AWS exam, featuring Amazon-designated best practices. You will master AWS architectural principles and services such as IAM, VPC, EC2, and EBS and elevate your career in the cloud computing domain.

Program Features:

- 57 hours of blended learning
- 21 hours of Online self-paced learning
- 36 hours of instructor-led training
- 16 live demos of AWS services
- 10 industry-based case studies
- Three simulation exams (60 questions each)
- Three real-time industry projects with integrated labs
- 100% money-back guarantee

Delivery Mode:

Blended - Online self-paced learning and live virtual classroom

Prerequisites:

There are no prerequisites for this AWS training course. However, prior experience in working with AWS or another cloud computing platform is recommended.

Target Audience:

IS/IT auditors/consultants

IT compliance managers

Security heads/directors

Security managers/architects

Key Learning Outcomes:

- Formulate solution plans and provide guidance on AWS architecture best practice
- Design and deploy scalable, highly available, and fault-tolerant systems on AWS
- Identify the lift and shift of existing on-premises applications to AWS
- Decipher the ingress and egress of data to and from AWS
- Select the appropriate AWS service based on data, compute, database, or security requirements
- Estimate AWS costs and identify cost control mechanisms

Certification Details and Criteria:

To become a CISA-certified professional, you must meet the following requirements:

The AWS Solutions Architect Associate exam is 80 minutes and features multiple-choice questions.

AWS Certification exams are administered at Kryterion testing centers in more than 750 locations worldwide; register to secure your exam appointment.

AWS Certification Cost: The registration fee for the AWS Solution Architect Associate Exam is $150.

UpSkill YourSelf
Learn • Earn • Grow

325 W Washington
St Suite 2#3086
San Diego, CA 92103
United States

Course Completion Criteria:

Online Classroom:

Attend one complete batch.

Complete one simulation test with a minimum score of 60 percent.

Online Self-Learning:

Complete 85 percent of the course.

Complete one simulation test with a minimum score of 60 percent.

Course Curriculum:

Lesson 00 – Course Introduction

Lesson 01 – AWS Overview

- History and Evolution of AWS
- Knowledge Check
- Overview of AWS Products and Services
- Quiz
- Key Takeaways

Lesson 02 – Designing Highly Available, Cost-efficient, Fault-tolerant, and Scalable Systems

- Designing Highly Available, Cost-efficient, Fault-tolerant, and Scalable Systems
- How to design Cloud Services
- Knowledge Check
- Planning and Designing
- Knowledge Check
- Monitoring and Logging
- Knowledge Check
- Hybrid IT architectures
- Knowledge Check
- Practice Assignment Designing Hybrid Storage
- Quiz
- Knowledge Check

Lesson 03 – Identity Access Managemen(IAM)

- Identity and Access Management (IAM)
- IAM Overview and Policies
- Knowledge Check
- IAM Users, Groups, and Roles
- Knowledge Check
- IAM Best Practices
- IAM Users, Groups, and Roles
- Knowledge Check
- IAM Best Practices
- Practice Assignment Configuring IAM Access
- Quiz
- Key Takeaways

Lesson 04 – Amazon Virtual Private Cloud(VPC)

- Amazon Virtual Private Cloud (VPC)
- Amazon VPC and Subnets
- Knowledge Check
- Networking
- Knowledge Check
- Using Security Groups and Network ACLs
- Knowledge Check
- Amazon VPC Best Practices and Costs
- Practice Assignment Designing a Custom VPC
- Quiz
- Knowledge Check

Lesson 05 – Elastic Compute Cloud(EC2)

- Cloud Compute with AWS
- Amazon EC2 Overview
- Amazon Machine Images (AMI)
- Launch and connect to an EC2 Linux instance Demo 1
- Launch and connect to an EC2 Windows instance Demo 2
- Create an AMI Demo 3
- Knowledge Check
- Introduction to EC2 Instance Types
- Knowledge Check
- Overview of Amazon EBS
- Knowledge Check
- EC2 Pricing
- Knowledge Check
- Elastic Load Balancing (ELB)
- Knowledge Check
- Auto Scaling

UpSkill YourSelf
Learn • Earn • Grow

325 W Washington
St Suite 2#3086
San Diego, CA 92103
United States

- Knowledge Check
- AWS Services
- AWS Lambda Demo
- Amazon Elastic Container Service
- Knowledge Check
- EC2 Best Practices and Costs
- Practice Assignment Configure ELB
- Quiz
- Key Takeaways

Lesson 06 – Amazon Simple Storage Service(S3)

- Amazon Simple Storage Service (S3)
- S3 Overview and Buckets
- Knowledge Check
- Version Control and Lifecycle Management
- Knowledge Check
- CloudFront and CDNs
- Knowledge Check
- Security and Encryption
- Knowledge Check
- Amazon Import – Export Snowball
- Knowledge Check
- S3 Best Practices and Costs
- Practice Assignment Create an Amazon S3 bucket
- Quiz
- Knowledge Check

Lesson 07 – Amazon Route 53

- Amazon Route 53
- Amazon Route 53 Concepts
- Knowledge Check
- Amazon Route 53 Best Practices and Costs
- Practice Assignment Amazon Route 53 Hosted Zone 0
- Quiz
- Key Takeaways

Lesson 08 – Databases

- Databases
- Databases Overview
- Knowledge Check
- Amazon Relational Database Service (RDS)
- Knowledge Check
- AMI Databases
- Key Takeaways
- Amazon DynamoDB
- Knowledge Check
- Amazon Redshift
- Knowledge Check
- Amazon ElastiCache
- Knowledge Check
- Amazon Aurora
- Knowledge Check
- AWS Database Migration Services (DMS)
- Knowledge Check
- Database Best Practices and Costs
- Practice Assignment Amazon RDS
- Quiz

- Key Takeaways

Lesson 09 – Application Services

- Application Services
- AWS Application Services
- Knowledge Check
- Amazon Elastic Transcoder
- Knowledge Check
- Amazon Workspaces
- Knowledge Check
- Application Services Best Practices and Costs
- Practice Assignment Amazon SNS
- Quiz
- Key Takeaways

Lesson 10 – Security Practices for optimum Cloud Deployment

- Security Practices for Optimum Cloud Deployment
- AWS Responsibilities and Security Attributes
- Knowledge Check
- AWS CloudFormation and Design patterns
- Practice Assignment AWS CloudWatch
- Quiz
- Key Takeaways
- Lesson 11 – Disaster Recovery
- Disaster Recovery
- Overview and Products for Disaster Recovery
- Practice Assignment Disaster Recovery
- Quiz
- Key Takeaways

Lesson 12 - Troubleshooting

- Troubleshooting
- Troubleshooting and Support
- Quiz

Lesson 13 - AWS Solutions Architect Exam

- AWS Solutions Architect Exam
- Exam Overview and Study Tips
- Knowledge Check
- Key Takeaways

Course End Projects:

Project 1: Custom VPC Creation

Create a custom VPC with public and private subnets on two availability zones and launch instances into each subnet.

Project 2: Load balancer Configuration

Launch two web servers, and configure a load balancer and auto-scaling

Project 3: RD Gateway Configuration

Configure an RD Gateway on a VPC with a public and private subnet.

UpSkill YourSelf
Learn • Earn • Grow

325 W Washington
St Suite 2#3086
San Diego, CA 92103
United States

Tools Covered:

Amazon EC2	Amazon Elastic Block Store	AWS Identity and Access Management
AWS Snowball Edge	Amazon CloudFront	SWF
Amazon Redshift	Elastic Load Balancing	Amazon DynamoDB
Lambda function	Amazon Simple Notification Service	Amazon Simple Queue Service
Elastic Load Balancing	Amazon Redshift	

UpSkill YourSelf
Learn • Earn • Grow

325 W Washington
St Suite 2#3086
San Diego, CA 92103
United States

Auto Scaling

Amazon Elastic
Transcoder

Amazon S3
Glacier

Amazon
Route 53

Amazon RDS

Amazon
Aurora instance

Amazon
ElastiCache

Amazon VPC

Amazon VPC

AWS Cloud
Formation

Amazon
CloudWatch

AWS CloudTrail

AWS Database
Migration Service

AWS Trusted
Advisor