

# AWS Course: Skill And Certification Oriented Course

(Duration: 48 hrs, 8 weekends)



## AWS Architect Associate

### Contents

- Who can do this course
- Prerequisite
- Course Deliverables
- Course Description



#### ➤ Who can do this course

Anyone (Students, working professionals: Developers, Administrators, Testers, Architects) who wish to learn and make career in AWS

#### ➤ Prerequisites

1. Operating Systems (how they work and operate at a high level): Windows, Linux and a bit of basic concepts about them.
2. Basics of Virtualization concepts
3. Basics of Networking concepts
4. Basics of Private and Public cloud

**Come To Learn . . .!!! Go To Lead . . .!!!**  
Samarthview Technologies

## AWS Course: Skill And Certification Oriented Course

(Duration: 48 hrs, 8 weekends)



### ➤ Course Deliverables

On completions student should be able to do:

- Ability to Explain AWS Services
- Describe key services on the AWS platform and their common use cases.
- Describe basic security and compliance aspects of the AWS platform and the shared security model.
- Describe AWS Cloud architectural principles.
- Certification covered:
  - 1 AWS Cloud Practitioner
  - 2 AWS Architect Associate
- User Management Capability in AWS
- Able to Setup Various Backup Scenarios in AWS
- Able to create complete Datacentre Network on AWS
- Able to create Virtual Machines on AWS
- Able to create highly available and Scalable DNS on AWS
- Able to create Databases on AWS with Understanding of Best Practices
- Understanding of various application Services
- Understanding of AWS Best Practices

**Come To Learn . . .!!! Go To Lead . . .!!!**  
Samarthview Technologies

# AWS Course: Skill And Certification Oriented Course

(Duration: 48 hrs, 8 weekends)



## ➤ Course Description

**This Course will be delivered in two modules**

**Module1:** Cloud Practitioner Architect

**Module2:** AWS Architect Associate

### Module1: Cloud Practitioner Architect

<b>Module1: Introduction to Cloud Computing</b> <ul style="list-style-type: none"><li>➤ Introduction to AWS Services</li><li>➤ AWS Platform</li><li>➤ AWS Global Infrastructure</li><li>➤ Regions and Availability Zones</li></ul> <b>Lab:</b> AWS Management Console Know-How	<b>Module4: Overview of AWS Billing</b> <ul style="list-style-type: none"><li>➤ Introduction</li><li>➤ Detailed Billing Reports, Resource</li><li>➤ Groups and Tagging</li><li>➤ AWS Organizations</li><li>➤ Consolidated Billing</li><li>➤ AWS EC2 &amp; TCO Calculator</li></ul>
<b>Module2: AWS Services Introduction - Part 1</b> <ul style="list-style-type: none"><li>➤ IAM Introduction</li><li>➤ S3 Introduction</li><li>➤ EC2 Introduction</li></ul> <b>Lab</b> Interacting with these services	<b>Module 5: AWS Security Overview</b> <ul style="list-style-type: none"><li>➤ Shared Responsibility Model</li><li>➤ AWS Risk and Compliance</li><li>➤ AWS Trusted Advisor</li><li>➤ AWS Inspector, CloudTrail and Config</li><li>➤ AWS WAF and AWS Shield</li></ul>
<b>Module3: AWS Services Introduction - Part 2</b> <ul style="list-style-type: none"><li>➤ Load Balancers</li><li>➤ Databases</li><li>➤ Autoscaling</li><li>➤ Elastic Beanstalk</li><li>➤ CloudFormation</li></ul>	<b>Module 6: Architecting for AWS</b> <ul style="list-style-type: none"><li>➤ AWS Best Practices</li></ul> <b>Module 7: Course summary and mock exam</b>

**Come To Learn . . .!!! Go To Lead . . .!!!**

Samarthview Technologies

# AWS Course: Skill And Certification Oriented Course

(Duration: 48 hrs, 8 weekends)



## • Module2: AWS Architect Associate

<b>Module 1: Introduction to AWS Services</b> <ul style="list-style-type: none"><li>➤ Overview of the Exam</li><li>➤ Overview of Regions and AZ's</li></ul>	<b>Module 2 :Deep Dive into IAM</b> <p>Details of IAM Service</p> <b>Lab1</b> :Creating Users, Groups and Roles Security Token Service
<b>Module 3 :Deep Dive into AWS Storage Services and CDN</b> <ul style="list-style-type: none"><li>➤ Introduction to S3 and Various classes</li><li>➤ S3 Versioning</li><li>➤ S3 Lifecycle Management and Glacier</li><li>➤ Cross Region Replication</li><li>➤ S3 Security and Encryption</li><li>➤ S3 Transfer Acceleration</li><li><b>Lab1</b> : Exercises on S3</li><li>➤ Introduction to CloudFront</li><li>➤ Storage Gateway</li><li>➤ Snowball</li></ul>	<b>Module 4 :Deep Dive into VPC</b> <ul style="list-style-type: none"><li>➤ Introduction to VPC</li><li>➤ Difference Between Default and Custom VPC</li><li>➤ Introduction to Gateways</li><li>➤ Understanding Route tables and Subnets</li><li>➤ Understanding Security Groups and NACL's</li><li>➤ NAT's and Bastion Host</li><li>➤ VPC Endpoints</li><li><b>Lab1</b> :VPC flow Logs</li><li><b>Lab2</b> :Creating a Custom VPC</li></ul>
<b>Module 5 :Deep Dive into EC2</b> <ul style="list-style-type: none"><li>➤ Introduction to EC2</li><li>➤ Introduction to EBS Volumes</li></ul> <b>Lab1</b> :Creating an EC2 Instances <b>Lab2</b> : Working with EBS Volumes <b>Lab3</b> :Creating AMI's and Launching Instance <b>Lab4</b> :Setting up CloudWatch Alarms in EC2 <ul style="list-style-type: none"><li>➤ AWS Command line tool and bootstrapping</li><li>➤ S3 CLI and Regions</li><li>➤ Understanding Autoscaling</li><li>➤ EC2 placement Groups and Elastic File system</li><li>➤ Introduction to Lambda</li></ul>	<b>Module 6 :Route 53</b> <ul style="list-style-type: none"><li>➤ Introduction to Route 53</li><li>➤ Routing Policies and Health Checks</li></ul> <b>Lab1</b> :Route 53 Register a Domain Name <b>Lab2</b> :Simple Routing Policy <b>Lab3</b> Weighted Routing Policy Lab <b>Lab4</b> Latency Based Routing Policy I <b>Lab5</b> Failover Routing Policy Lab

**Come To Learn . . .!!! Go To Lead . . .!!!**

Samarthview Technologies

## AWS Course: Skill And Certification Oriented Course

(Duration: 48 hrs, 8 weekends)



<b>Module 7 :Databases on AWS</b> <ul style="list-style-type: none"><li>➤ Introduction to Databases</li></ul> <b>Lab1</b> :Create and RDS Instance <ul style="list-style-type: none"><li>➤ RDS - Backups</li><li>➤ Multi-AZ and Read Replicas Concept</li><li>➤ DynamoDB</li><li>➤ ElastiCache</li><li>➤ Redshift</li><li>➤ Aurora</li></ul>	<b>Module 8 :Introduction to Application Services</b> <ul style="list-style-type: none"><li>➤ SQA</li><li>➤ SNS</li><li>➤ SWF</li><li>➤ Elastic Transcoder</li><li>➤ API Gateway</li><li>➤ Kinesis</li></ul>
<b>Module 9 : AWS Whitepapers Walkthrough</b> <ul style="list-style-type: none"><li>➤ Overview of Amazon Web Services</li><li>➤ Overview of Security Processes</li><li>➤ AWS Risk and Compliance</li><li>➤ Storage Options in the Cloud</li><li>➤ Architecting for the AWS cloud</li><li>➤ Well Architected Framework</li></ul>	<b>Module 10 : Other Important Topics</b> <ul style="list-style-type: none"><li>➤ Consolidated billing</li><li>➤ AWS Organizations</li><li>➤ Cross Account Access</li><li>➤ Resource Groups and Tagging</li><li>➤ VPC Peering</li><li>➤ Direct Connect</li><li>➤ ECS</li><li>➤ Active Directory Integration</li><li>➤ Workspaces</li></ul>
Mock Exam 1	Mock Exam 2

**Come To Learn . . .!!! Go To Lead . . .!!!**  
Samarthview Technologies