







E-Learning COURSE OUTLINE

AWS Developer Associate Certification Training

-  High quality Content
-  Study Guides
-  Learning Videos
-  Practice Tests
-  Learning Support
-  Learn on any device





Syllabus

Lesson 00 - Course Introduction

- Course Overview

Lesson 01 - AWS Overview

- 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

Management(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
- KeyTakeaways

Lesson 04 - Amazon Virtual Private Cloud(VPC)

- Amazon Virtual Private Cloud (VPC)
- Amazon VPC and Subnets
- Knowledge CheckNetworking
- 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



Syllabus

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
- 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



Syllabus

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



Syllabus

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
- Key Takeaways

Lesson 13 - AWS Solutions Architect Exam

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



Syllabus

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



Syllabus

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



Syllabus

Tools Covered:



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

About SwissKnowledge

SwissKnowledge is a brand of Swiss Expert Consulting GmbH, designed to deliver training and consulting services to individuals and corporate customers

MAKE SMATER AND BETTER INVESTMENT



People Development

COURSES PORTFOLIO

SCRUM & AGILE

- Scrum Developer Certified (SDC)
- Scrum Master Certified (SMC)
- Scrum Product Owner Certified (SPOC)
- Agile Master Certified (SAMC)
- Agile Scrum Master (ASM)

PROJECT MANAGEMENT

- Project Management Professional
- PMI Risk Management Professional
- PRINCE2 Foundation & Practitioner
- MSP Foundation & Practitioner
- CBAP

QUALITY MANAGEMENT

- Six Sigma Green Belt (SSGB)
- Six Sigma Black Belt (SSBB)
- Lean Six Sigma Green Belt (LSSGB)
- Lean Six Sigma Black Belt (LSSBB)

IT SERVICE MANAGEMENT

- ITIL Foundation
- ITIL 4 Foundation

Trust your educational growth to



 contact@swissknowledge.org

 +41 79 315 28 99