

## **AWS Certified Solutions Architect – Associate**

### **Course Outline**

#### **Day 1**

- **Module 1: Architecting Fundamentals**
  - AWS services
  - AWS infrastructure
  - AWS Well-Architected Framework
  - **Hands-on Lab:** Explore and interact with the AWS Management Console and AWS Command Line Interface
- **Module 2: Account Security**
  - Principals and identities
  - Security policies
  - Managing multiple accounts
- **Module 3: Networking 1**
  - IP addressing
  - VPC fundamentals
  - VPC traffic security
- **Module 4: Compute**
  - Compute services
  - EC2 instances
  - Storage for EC2 instances
  - Amazon EC2 pricing options
  - AWS Lambda
  - **Hands-on Lab:** Build your Amazon VPC infrastructure

#### **Day 2**

- **Module 5: Storage**
  - Storage services
  - Amazon S3
  - Shared file systems
  - Data migration tools
- **Module 6: Database Services**
  - Database services
  - Amazon RDS
  - Amazon DynamoDB
  - Database caching
  - Database migration tools
  - **Hands-on Lab:** Create a database layer in your Amazon VPC infrastructure

- **Module 7: Monitoring and Scaling**
  - Monitoring
  - Alarms and events
  - Load balancing
  - Auto scaling
  - **Hands-on Lab:** Configure high availability in your Amazon VPC
- **Module 8: Automation**
  - AWS CloudFormation
  - Infrastructure management
- **Module 9: Containers**
  - Microservices
  - Containers
  - Container services

### Day 3

- **Module 10: Networking 2**
  - VPC endpoints
  - VPC peering
  - Hybrid networking
  - AWS Transit Gateway
- **Module 11: Serverless**
  - What is serverless?
  - Amazon API Gateway
  - Amazon SQS
  - Amazon SNS
  - Amazon Kinesis
  - AWS Step Functions
  - **Hands-on Lab:** Build a serverless architecture
- **Module 12: Edge Services**
  - Edge fundamentals
  - Amazon Route 53
  - Amazon CloudFront
  - DDoS protection
  - AWS Outposts
  - **Hands-on Lab:** Configure an Amazon CloudFront distribution with an Amazon S3 origin
- **Module 13: Backup and Recovery**
  - Disaster planning
  - AWS Backup
  - Recovery strategies
  - **Hands-on Lab:** Capstone lab – Build an AWS Multi-Tier architecture