

Detailed Course Curriculum

AWS Certified Solutions Architect – Associate Level

Duration: 5 Days

Price: AWS Certified Solutions Architect Associate

Delivery Method: AWS Instructor-Lead

Intended Audience:

This course is intended for:

- Entry level professionals to build ICT skills through broad based training and certification in the 'Cloud Computing' sector
- Solution Architects or Solution Design Engineers who are relatively new to AWS and want to fast track their AWS Certification.
- Solution Architects or Solution Design Engineers who are preparing to take the AWS Certified Solutions Architect – Associate exam

Course Description

Day 1 - AWS Technical Essentials introduces you to AWS products, services, and common solutions. It provides IT technical end users with basic fundamentals to become more proficient in identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements and get started on AWS.

Course Objectives - This course is designed to teach you how to:

- Understand basic data centre design concepts
- Recognise terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console
- Understand the foundational infrastructure services, including Amazon Virtual Private cloud (VPC), Amazon Elastic Compute Cloud (EC2), Amazon Elastic Block Store (EBS), Amazon Simple Storage Service (S3), Auto Scaling, and Elastic Load Balancing (ELB)
- Understand the security measures AWS provides and key concepts of AWS Identity and Access Management (IAM)
- Understand AWS database services, including Amazon DynamoDB and Amazon Relational Database Service (RDS).
- Understand AWS management tools, including Amazon CloudWatch and AWS Trusted Advisor

Day 2–4 - Architecting on AWS covers the fundamentals of building IT infrastructure on AWS. The course is designed to teach solutions architects how to optimize the use of the AWS cloud by understanding AWS services and how these services fit into cloud-based solutions.

Because architectural solutions may differ depending on industry, type of applications, and size of business, this course emphasizes AWS cloud best practices and recommended design patterns to help students think through the process of architecting optimal IT solutions on AWS. It also presents case studies throughout the course that showcase how some AWS customers have designed their infrastructures and the strategies and services they implemented. Opportunities to build a variety of infrastructures via a guided, hands-on approach are also provided.

Course Objectives: This course is designed to teach you how to:

- Make architectural decisions based on the AWS-recommended architectural principles and best practices
- Leverage AWS services to make your infrastructure scalable, reliable, and highly available
- Leverage AWS managed services to enable greater flexibility and resiliency in an infrastructure
- Make an AWS- based infrastructure more efficient in order to increase performance and reduce costs
- Use the Well-Architected Framework to improve architectures with AWS solutions

Day 5 – AWS Certification Exam Readiness Workshop – Solutions Architect Associate

(WebEx) is designed to complement Architecting on AWS. It is intended for individuals who are preparing for the AWS Certified Architecting Associate exam.

In this workshop, we review what to expect at the testing centre and while taking the exam. We walk you through how the exam is structured, including question formats, content domains, and the breakdown of questions across those domains. We also teach you how to interpret the concepts being tested by a question so that you can better eliminate incorrect responses. During the workshop, you will have the chance to apply knowledge and test concepts through a series of practice exam questions.

Course Objectives - This course is designed to teach you how to:

- Navigate the logistics of the examination process
- Understand the exam structure and question types
- Identify how questions are written to test AWS architectural concepts
- Interpret the concepts being tested by an exam question

Course Outline:

Day 1 - AWS Technical Essentials

- Introduction and History of AWS
- AWS Infrastructure: Compute, Storage, and Networking



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- AWS Security, Identify, and Access Management
- AWS Database
- AWS Management Tools

Day 2 - Architecting on AWS (1 of 3 days)

- Core AWS Knowledge
- Core AWS Services
- Designing your Environment
- Making Your Environment Highly Available

Day 3 - Architecting on AWS (2 of 3 days)

- Forklifting an Existing Application onto AWS
- Event-Driven Scaling
- Automating
- Decoupling
- Build a new environment

Day 4 - Architecting on AWS (3 of 3 days)

- The Well-Architected Framework
- Troubleshooting Your Environment
- Large-Scale Design Patterns and Case Studies

Day 5 - AWS Certification Exam Readiness Workshop Solutions Architect Associate Level

- Testing Centre Information and Expectations
- Exam Overview and Structure
- Content Domains and Question Breakdown
- Topics and Concepts with Content Domains
- Question Structure and Interpretation Techniques
- Post class – Practice Exam Questions

- Inclusive of 01 Actual exam voucher