

## ***AW210-EN Architecting on AWS***

### **Kurzbeschreibung:**

“Architecting on AWS” is for solutions architects, solution-design engineers, and developers seeking an understanding of AWS architecting. In this course, you will learn to identify services and features to build resilient, secure, and highly available IT solutions on the AWS Cloud. Architectural solutions differ depending on industry, types of applications, and business size. AWS Authorized Instructors emphasize best practices using the AWS Well-Architected Framework, and guide you through the process of designing optimal IT solutions based on real-life scenarios.

### **Zielgruppe:**

- Solution architects
- Solution-design engineers
- Developers seeking an understanding of AWS architecting
- Individuals seeking the AWS Solutions Architect-Associate certification

### **Voraussetzungen:**

To participate in the “Architecting on AWS” at qSkills, you should have attended the following AWS training:

- “AWS Cloud Practitioner Essentials”, or “AWS Technical Essentials”

and additionally meet the following requirements:

- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Familiarity with IP addressing
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

### **Sonstiges:**

**Dauer:** 3 Tage

**Preis:** 1795 Euro plus Mwst.

### **Ziele:**

- AWS architecting basic practices
- Summarize the fundamentals of account security
- Identify strategies to build a secure virtual network that includes private and public subnets
- Practice building a multi-tier architecture in AWS
- Identify strategies to select the appropriate compute resources based on business use cases
- Compare and contrast AWS storage products and services based on business scenarios

- Compare and contrast AWS database services based on business needs
- Identify the role of monitoring, load balancing, and auto scaling responses based on business needs
- Identify and discuss AWS automation tools that will help you build, maintain, and evolve your infrastructure
- Discuss hybrid networking, network peering, and gateway and routing solutions to extend and secure your infrastructure
- Explore AWS container services for the rapid implementation of an infrastructure-agnostic, portable application environment
- Identify the business and security benefits of AWS serverless services based on business examples
- Discuss the ways in which AWS edge services address latency and security
- Explore AWS backup, recovery solutions, and best practices to ensure resiliency and business continuity

## Inhalte/Agenda:

- **◆ Day 1**
  - ◆ ◇ Module 1: Architecting Fundamentals
  - ◆ ◇ Module 2: Account Security
  - ◆ ◇ Module 3: Networking 1
  - ◆ ◇ Module 4: Compute
  - ◆ ◇ Hands-On Lab: Build your Amazon VPC infrastructure
  
- ◆ Day 2** ◇
  - ◆ ◇ Module 5: Storage
  - ◆ ◇ Module 6: Database Services
  - ◆ ◇ Hands-on Lab: Create a database layer in your Amazon VPC infrastructure
  - ◆ ◇ Module 7: Monitoring and Scaling
  - ◆ ◇ Hands-on Lab: Configure high availability in your Amazon VPC
  - ◆ ◇ Module 8: Automation
  - ◆ ◇ Module 9: Containers
  
- ◆ Day 3** ◇
  - ◆ ◇ Module 10: Networking 2
  - ◆ ◇ Module 11: Serverless
  - ◆ ◇ Hands-on Lab: Build a serverless architecture
  - ◆ ◇ Module 12: Edge Services
  - ◆ ◇ Hands-On Lab: Configure an Amazon CloudFront distribution with an Amazon S3 origin
  - ◆ ◇ Module 13: Backup and Recovery
  - ◆ ◇ Hands-on Lab: Capstone lab – Build an AWS Multi-Tier architecture. Participants review the concepts and services learned in class and build a solution based on a scenario. The lab environment provides partial solutions to promote analysis and reflection. Participants deploy a highly available architecture. The instructor is available for consultation.