# AWS – Developing on Amazon Web Services

## Description

The Developing on Amazon Web Services AWS course is designed to help individuals design and build secure, reliable and scalable AWS-based applications. In this course, we cover fundamental concepts and baseline programming for developing applications on AWS. We also show you how to work with AWS code libraries, SDKs, and IDE toolkits so that you can effectively develop and deploy code on the AWS platform.

**Course Content**
**Day 1: Building the Foundation**

- Introduction to Developing on AWS
- Choosing a Data Store
- Developing Storage Solutions with Amazon S3
- Developing Flexible NoSQL Solutions with Amazon DynamoDB

**Day 2: Connecting Applications and Data with Event-Driven Processing**

- Working with Events
- Developing Event-Driven Solutions with Amazon Kinesis Streams
- Developing Event-Driven Solutions with Amazon SWF, Amazon SQS, and Amazon SNS
- Developing Event-Driven Solutions with AWS Lambda

**Day 3: Developing and Deploying Secure, Scalable Applications**

- Developing Secure Applications
- Caching Information for Scalability
- Monitoring Your Application and AWS Resources with Amazon CloudWatch
- Deploying Applications with AWS Elastic Beanstalk and AWS CloudFormation

**Lab / Exercises**

- Official AWS Labs

**Documentation**

- Digital courseware included

**Exam**

- This training prepares you for the certification: **AWS Certified Developer - Associate**

**Participant profiles**

- Developers

**Prerequisites**

- Familiarity with AWS services
- A working knowledge of Java, C#/.Net, or Python

**Objectives**

- Set up the AWS SDK and developer credentials for Java, C#/.Net, Python, and JavaScript
- Use the AWS SDK to interact with AWS services and develop solutions
- Use Amazon Simple Storage Service (Amazon S3) and Amazon DynamoDB as data stores
- Integrate applications and data by using Amazon Kinesis, AWS Lambda, Amazon Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (Amazon SNS), and Amazon Simple Workflow Service (Amazon SWF)
- Use AWS Identity and Access Management (IAM) for service authentication
- Use Web Identity Framework and Amazon Cognito for user authentication
- Use Amazon ElastiCache and Amazon CloudFront to improve application scalability
- Deploy applications by using AWS Elastic Beanstalk and AWS CloudFormation

**Niveau**
Intermédiaire
**Virtual Classroom Registration Price (CHF)**
2550
**Duration (in Days)**
3
**Reference**
AWS-202