



## DevOps Foundations: The Core Principles and Practices (AZ-2008)

### Description

Learn DevOps practices with our training course “DevOps Foundations: The Core Principles and Practices (AZ-2008)” to enable your development and operations teams to collaborate more effectively. Our course, organized into structured modules, will guide you through DevOps culture, agile planning, collaborative development, continuous delivery, and operational excellence.

With powerful tools like GitHub and advanced techniques, you will achieve maximum agility and efficiency at every phase of your application lifecycle. Join us in this course: “DevOps Foundations: The Core Principles and Practices (AZ-2008)” to master the future of software development!

### Classroom Registration Price (CHF)

900

### Virtual Classroom Registration Price (CHF)

850

### Course Content

#### Module 1: Discovering DevOps

- Introducing DevOps
- Defining what DevOps is
- Exploring DevOps culture
- Analyzing DevOps goals and benefits
- Understanding the DevOps application lifecycle

#### Module 2: Planning with DevOps

- Introducing the module
- Promoting DevOps culture
- Defining Agile
- Examining DevOps practices
- Planning with GitHub
- Managing agile planning and management with GitHub

#### Module 3: Developing with DevOps

- Introducing the module
- Examining source code control and version management
- Managing version control with Git
- Understanding GitHub flow
- Analyzing continuous integration
- Exploring shift-left testing
- Studying shift-left security
- Implementing a workflow with GitHub

#### **Module 4: Delivering with DevOps**

- Introducing the module
- Examining continuous delivery
- Studying infrastructure as code
- Analyzing progressive exposure techniques
- Exploring continuous delivery with GitHub Actions
- Implementing CI/CD with GitHub Actions and IaC with Bicep

#### **Module 5: Operating with DevOps**

- Introducing the module
- Examining operational excellence
- Analyzing shift-right testing
- Studying observability through performance monitoring
- Assessing security for observability
- Analyzing resilience through site reliability engineering
- Improving developer experience with platform engineering
- Increasing workload resilience with Traffic Manager and Azure Chaos Studio

#### **Documentation**

- Digital course material included

#### **Participant profiles**

- DevOps Engineer
- Security Engineer
- Security Operations Analyst
- Solutions Architect
- Support Engineer

#### **Prerequisites**

- An Azure subscription. You must have your own subscription.
- Basic knowledge of IT terms and concepts.

#### **Objectives**

- Present and define DevOps
- Analyze the goals and benefits of DevOps
- Manage agile planning and management with GitHub
- Implement a workflow with GitHub
- Explore continuous delivery with GitHub Actions

- Assess security and improve system resilience

**Description**

DevOps Foundations: The Core Principles and Practices (AZ-2008)

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**Duration (in Days)**

1

**Reference**

AZ-2008