

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

Course Outline

1) Discover DevOps

- Describe the DevOps approach
- Explore best practices for fostering DevOps culture
- Identify DevOps goals and benefits
- Understand the DevOps application lifecycle

2) Plan with DevOps

- Describe the components of and the path to a DevOps culture
- Define the frameworks and methods of the Agile methodology
- Implement DevOps practices
- Use GitHub to plan a project

3) Develop with DevOps

- Define source control and version control
- Describe how to manage source control with Git
- Describe how to manage source control with GitHub Flow
- Define the concept of continuous integration
- Explore DevOps shift-left testing scenarios
- Explore DevOps shift-left security scenarios

4) Deliver with DevOps

- Define the concept of continuous delivery
- Describe the concept and implementation methods of IaC
- Review the progressive exposure techniques and deployment practices
- Explore DevOps shift-right testing scenarios
- Describe how to implement continuous delivery with GitHub Actions

5) Operate with DevOps

- Explore the concepts of operational excellence
- Review infrastructure and application monitoring solutions
- Review infrastructure and application security monitoring solutions
- Describe the correlation between SRE and DevOps