



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

Course ID #: 7000-1066-ZZ-Z

Hours: 7

Course Content

Description:

Explore DevOps practices using GitHub. Your development and operations teams will experience improved collaboration, agility, continuous integration, continuous delivery, automation, and operational excellence throughout all phases of the application lifecycle.

Prerequisites:

- An Azure Subscription. You need to bring your own subscription.
- Basic familiarity with IT terms and concepts.

Target Audience:

Administrator, Developer, DevOps Engineer, Security Engineer, Security Operations Analyst, Solution Architect, Student, Support Engineer

Topics:

Lesson 1: Discover DevOps

- Introduction
- What is DevOps?
- Explore DevOps culture
- Explore DevOps goals and benefits
- Explore DevOps application lifecycle
- Module assessment
- Summary

Lesson 2: Plan with DevOps

- Introduction
- Foster DevOps culture
- What is Agile?
- Explore DevOps practices
- Plan with GitHub
- Agile plan and management using GitHub
- Module assessment
- Summary

Lesson 3: Develop with DevOps

- Introduction
- Explore source control and version control
- Explore version control using Git
- Explore GitHub flow
- Explore Continuous Integration
- Explore shift-left testing
- Explore shift-left security
- Implement flow of work with GitHub
- Module assessment
- Summary



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Lesson 4: Deliver with DevOps

- Introduction
- Explore continuous delivery
- Explore Infrastructure as Code
- Explore progressive exposure techniques
- Explore continuous delivery with GitHub Actions
- Implement CI/CD with GitHub Actions and IaC with Bicep
- Module assessment
- Summary

Lesson 5: Operate with DevOps

- Introduction
- Explore operational excellence
- Explore shift-right testing
- Explore observability through performance monitoring
- Explore observability through security assessment
- Explore resiliency with site reliability engineering
- Improve developer experience with platform engineering
- Enhance workload resiliency Traffic Manager and Azure Chaos Studio
- Module assessment
- Summary

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NASBA Information

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Recommended Field(s) of Study:

Recommended CPEs: 7.80

Policies: Course Registration, Cancellation, Refund, and Complaint Resolution

For more information regarding administrative policies such as complaint and program cancellation policies, please contact our offices at 800-639-3535 or visit us at: www.tcworkshop.com

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