Continuous Delivery Using Azure DevOps Services Training

Duration: **2 Day**

BİLGİNÇ IT Academy
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Overview

The **Continuous Delivery Using Azure DevOps Services** course provides hands-on training for implementing **DevOps principles** and **continuous delivery practices** using **Azure DevOps, Visual Studio, and Microsoft Azure**.

Over **two intensive days**, participants will learn to build, test, release, and monitor software continuously while scaling agility and collaboration across distributed teams.

Key Benefits

- Build, test, deploy, and monitor software continuously
- Scale DevOps practices with Azure DevOps
- Improve feedback cycles and product quality
- Foster a culture of learning and improvement

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Important Information:
This course is an official program accredited by PeopleCert and is offered**only together with the corresponding certification exam**. The course fee **includes the exam fee**.
Participants can take the certification exam online through PeopleCert's examination system and earn an internationally recognized certificate.
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Who Should Attend

Ideal for experienced:

- Software Developers
- DevOps Engineers
- Technical Leads and Architects
- Scrum Masters and Product Owners
- Teams using Azure DevOps or TFS

Prerequisites:

- Familiarity with C#, Visual Studio, and Scrum
- Basic experience with Azure DevOps

What You Will Learn

By the end of this course, participants will be able to:

- Understand and apply **DevOps principles and benefits**
- Implement **Continuous Integration (CI)** and **Continuous Delivery (CD)**
- Increase **flow, feedback, and learning** through the **Three Ways** model
- Work effectively as a **cross-functional Agile team** in Azure DevOps
- Manage dependencies using **Feature Teams and Nexus Framework**
- Configure Azure DevOps for scaled product development
- Use **Azure Pipelines**, **ARM templates**, and **YAML builds**
- Apply **Infrastructure as Code (IaC)**
- Automate testing and use **SonarQube** for code quality
- Apply **Hypothesis-Driven Development (HDD)** using **LaunchDarkly**
- Use **Application Insights** and **Feature Flags** for A/B testing and telemetry
- Build a **Continuous Learning culture** with metrics and wikis

Outline

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Module 1: Increasing Flow at Scale

- Complexity of software development
- Scrum, Nexus, and empirical process control
- Organizing feature teams

Module 2: Planning and Executing at Scale

- Product backlog refinement
- Managing dependencies
- Sprint planning and execution in Azure Boards

Module 3: Sharing Code

- Git workflows and branching strategies
- Visualizing code dependencies
- Internal open-source practices

Module 4: Continuous Integration (CI)

- Fast feedback loops
- Automated builds and testing in Azure Pipelines
- Code coverage, regression testing, Test Impact Analysis

Module 5: Continuous Delivery (CD)

- Release management and deployment
- YAML pipelines and ARM templates
- Automated deployment to Azure environments

Module 6: Empowering the Product Owner

- Hypothesis-Driven Development (HDD)
- LaunchDarkly feature flags
- Telemetry and A/B testing with Application Insights
- Technical debt tracking via SonarQube

Module 7: Continuous Learning

- Agile metrics, Communities of Practice

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- Building a culture of learning and improvement
- Documenting insights in team wikis

Tools Covered

- **Azure DevOps Services / Server**
- **Visual Studio, Azure Pipelines**
- **SonarQube, Application Insights, LaunchDarkly**
- **Git, ARM Templates, YAML**