# Continuous Delivery Using Azure DevOps Services Training

Duration: **2 Day**

BILGINÇ IT Academy
info@bilginc.com
bilginc.com

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.
This practice is mandatory to ensure compliance with PeopleCert's quality standards and accreditation guidelines.

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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

## Training 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**