# DevOps Practitioner Training

Duration: **5 Day**

BİLGİNÇ IT Academy
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## Overview

DevOps is a modern approach that strengthens collaboration between development and operations teams while using automation to support faster, more sustainable, and controlled software delivery and infrastructure changes.

This five-day **DevOps Practitioner Training** is designed to provide participants from both development (Dev) and operations (Ops) backgrounds with practical experience in deploying modern, large-scale systems in cloud environments.

Throughout the course, participants explore the key tools and practices used to create an end-to-end DevOps pipeline. The programme covers Continuous Integration, configuration management, infrastructure provisioning, containerisation, Continuous Deployment, Continuous Delivery, and Continuous Monitoring.

By working with a range of DevOps technologies, participants gain practical insight into how modern software delivery and infrastructure changes can be automated, managed, deployed, and monitored effectively.

**Bilginç IT Academy** is an officially **Accredited Training Organisation (ATO)** by **PeopleCert**, the global leader in professional certification and exam delivery.
As an authorized PeopleCert partner, we deliver accredited training and official certification exams for **ITIL®, PRINCE2®, DevOps, and other PeopleCert-certified programs**, ensuring our learners receive globally recognized credentials with the most up-to-date curriculum.

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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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## Prerequisites

### Essential Knowledge and Experience

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Participants should:

- Have some experience working in development, operations, or a DevOps-related role
- Be comfortable using basic Linux terminal commands
- Understand fundamental source control concepts

### Useful Additional Experience

Previous experience in the following areas can also be beneficial:

- Using Git
- Working with the Windows command line
- Programming or software development

## What You Will Learn

By completing this course, participants will be able to:

- Develop a foundational understanding of the core pillars of DevOps
- Understand the fundamentals of Cloud Computing using AWS
- Recognise the key roles and responsibilities associated with SRE and DevSecOps
- Explore the main components and workflows within DevOps pipelines
- Understand the purpose of build managers and the use of npm in JavaScript projects
- Understand the principles and benefits of Continuous Integration and Continuous Deployment
- Integrate Jenkins with Source Control Management platforms such as GitLab and GitHub
- Create and manage build scripts using Jenkins
- Understand the fundamentals and advantages of containerisation
- Explore Docker and its core components
- Write Dockerfiles for building Docker images
- Integrate Jenkins with DockerHub to support automated build processes
- Use Docker Compose for container orchestration
- Understand Infrastructure as Code (IaC) and configuration management principles
- Use Terraform to provision infrastructure
- Understand Kubernetes and its role in container orchestration
- Manage Kubernetes configurations using Helm
- Understand the importance of observability within DevOps environments
- Explore the ELK Stack for log management and analysis
- Use the Kubernetes Dashboard for cluster management
- Understand how Prometheus supports monitoring and alerting

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## Outline

### Day 1 – DevOps Fundamentals and Cloud

- Core pillars of DevOps
- Introduction to Cloud Computing and AWS
- Introduction to SRE and DevSecOps
- DevOps pipelines

### Day 2 – Build Processes and CI/CD

- Introduction to build managers
- JavaScript and npm
- Introduction to Continuous Integration and Continuous Deployment
- Integrating Jenkins with Source Control Management systems
- Creating and working with Jenkins build scripts

### Day 3 – Containerisation and Docker

- Understanding containerisation
- Introduction to Docker
- Creating and using Dockerfiles
- Integrating Jenkins with DockerHub
- Container orchestration with Docker Compose

### Day 4 – Infrastructure as Code and Kubernetes

- Introduction to Infrastructure as Code and configuration management
- Infrastructure as Code with Terraform
- Container orchestration using Kubernetes
- Managing Kubernetes configurations with Helm

### Day 5 – Observability and Monitoring

- Introduction to observability
- The ELK Stack
- Kubernetes Dashboard
- Monitoring and alerting with Prometheus

### Certification

This course has been developed to provide a highly practical introduction to many of the key technologies and tools used across modern DevOps environments.

There is no specific vendor or professional certification associated with this course. Its primary focus is to provide participants with hands-on exposure to essential DevOps technologies and practical knowledge that can be applied within real-world development and operations environments.