



MICROSOFT TRAINING

# Continuous Delivery Azure Devops Microsoft Cloud Workshop

*Master continuous delivery on Azure DevOps. Build automated pipelines and deploy applications efficiently in Microsoft Cloud environments.*

---

DURATION

**2 hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

---

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

This intensive 2-hour Microsoft Cloud Workshop focuses on mastering Continuous Delivery (CD) practices using Azure DevOps, a powerful suite of development tools. Participants will dive deep into the principles of automating software releases, from code commit to production deployment, ensuring speed, reliability, and consistency. You will gain hands-on experience with Azure Pipelines, a core component of Azure DevOps, to design and implement robust CI/CD workflows that significantly accelerate your development cycles and enhance product quality.

|          |              |
|----------|--------------|
| Duration | 2 hours      |
| Level    | Intermediate |
| Vendor   | Microsoft    |

## COURSE CURRICULUM

### 01 Module 1: Foundations of Continuous Delivery and Azure DevOps

- Understanding Continuous Integration, Delivery, and Deployment principles
- Introduction to Azure DevOps Services for CD
- Setting up an Azure DevOps Project and Git Repository
- Version Control best practices for CI/CD

### 02 Module 2: Building Automated Pipelines with Azure Pipelines

- Designing and Implementing Build Pipelines (YAML)
- Integrating Automated Testing into CI workflows
- Packaging and Artifact Management strategies
- Creating Release Pipelines for multi-stage deployments

### 03 Module 3: Advanced Deployment Strategies and Environment Management

- Implementing Approval Gates and Environment Controls
- Exploring Blue-Green and Canary Deployment techniques
- Strategies for effective Rollback and Disaster Recovery
- Deploying to Azure App Services, Virtual Machines, and AKS

### 04 Module 4: Monitoring, Feedback, and Security in CD

- Integrating Azure Monitor and Application Insights for performance tracking
- Establishing feedback loops for continuous improvement
- Introduction to DevSecOps practices within Azure Pipelines
- Managing secrets and credentials securely using Azure Key Vault

### 05 Module 5: Optimizing and Scaling Continuous Delivery

- Pipeline optimization and performance tuning
- Implementing reusable templates and task groups
- Best practices for Pipeline as Code
- Leveraging Azure DevOps Extensions for advanced functionality

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **DevOps Engineer specializing in Azure environments**
- > **Cloud Release Manager**
- > **Azure Solutions Architect focused on CI/CD automation**

## FREQUENTLY ASKED QUESTIONS

### **Q: What specific prerequisites are recommended for this 2-hour Continuous Delivery Azure DevOps workshop to maximize my learning?**

To get the most out of this workshop, a basic understanding of software development lifecycle (SDLC) concepts, familiarity with cloud computing principles (preferably Azure), and some exposure to version control systems like Git are highly recommended. While the workshop is hands-on, prior experience with Azure DevOps is not strictly required but will be beneficial.

### **Q: Beyond basic CI/CD, what advanced deployment patterns or strategies will I learn to implement in Azure DevOps during this course?**

This workshop goes beyond basic CI/CD by covering advanced deployment strategies crucial for modern applications. You will learn to implement techniques like Blue-Green deployments for near-zero downtime updates, Canary releases for staged rollouts, and robust rollback strategies. We also cover environment-specific configurations and approval gates to ensure controlled and safe deployments across various stages.

### **Q: How does this workshop help in adopting a 'DevSecOps' approach within Azure DevOps for continuous delivery?**

This workshop integrates DevSecOps principles by demonstrating how to embed security early and continuously into your CD pipelines. You'll learn to manage sensitive information securely using Azure Key Vault, incorporate security scanning tools (conceptually, if not via direct integration due to time), and establish secure coding practices that are reinforced through automated checks within your Azure DevOps pipelines, contributing to a more secure software delivery process.

## ABOUT COMPUTER PRIDE



***East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

### Location

1st Flr, ICEA Building  
Kenyatta Ave, Nairobi

### Email

[info@computer-pride.co.ke](mailto:info@computer-pride.co.ke)

### Phone

+254 705 900 900

---

[www.computer-pride.co.ke](http://www.computer-pride.co.ke)