



MICROSOFT TRAINING

Azure Devops Online Course

Master Azure DevOps to build robust CI/CD pipelines and streamline software development lifecycle.

DURATION

32 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Unlock the power of modern software delivery with Computer Pride's intermediate-level Azure DevOps Online Course. This comprehensive 32-hour program is designed for IT professionals, developers, and operations engineers eager to master Microsoft Azure DevOps, a suite of development tools that streamline the entire software development lifecycle. You'll delve into the core principles of DevOps, learning how to integrate development and operations to foster faster, more reliable software releases.

Through practical, hands-on modules, you will gain proficiency in essential Azure DevOps services including Azure Boards for agile planning, Azure Repos for robust version control with Git, Azure Pipelines for implementing powerful Continuous Integration and Continuous Delivery (CI/CD) workflows, Azure Test Plans for quality assurance, and Azure Artifacts for package management. This course emphasizes real-world application, equipping you with the skills to automate builds, tests, and deployments, ensuring seamless collaboration across development teams and ultimately accelerating your organization's time-to-market.

By the end of this course, you will be capable of designing and implementing effective DevOps strategies within an Azure environment. This expertise is crucial for enhancing team productivity, improving software quality, and driving business agility, making you an invaluable asset in any forward-thinking technology team.

Duration	32 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure DevOps and Agile Planning

- Understanding DevOps principles and practices
- Overview of Azure DevOps services and components
- Introduction to Agile methodologies and Scrum
- Project management with Azure Boards (work items, sprints, dashboards, queries)
- Team collaboration features within Azure DevOps

02 Module 2: Version Control with Azure Repos and Git

- Fundamentals of Git and distributed version control
- Managing source code with Azure Repos
- Branching strategies (GitFlow, GitHub Flow, Trunk-Based Development)
- Working with Pull Requests and code reviews
- Repository security and access control

03 Module 3: Continuous Integration with Azure Pipelines

- Introduction to Continuous Integration (CI)
- Creating and configuring build pipelines (YAML and Classic Editor)
- Managing build agents and agent pools
- Integrating code quality and security scanning into CI pipelines
- Package management and artifact publishing

04 Module 4: Continuous Delivery and Release Management

- Understanding Continuous Delivery (CD) and Continuous Deployment
- Designing multi-stage release pipelines
- Deployment strategies (Blue/Green, Canary, Rolling)
- Setting up approvals, gates, and environment management
- Integrating with Azure services (App Service, Azure Kubernetes Service, Azure Functions)

05 Module 5: Testing, Artifacts, and Advanced Topics

- Implementing testing strategies with Azure Test Plans (manual and automated tests)
- Integrating automated tests into CI/CD pipelines
- Managing packages and dependencies with Azure Artifacts
- Introduction to Infrastructure as Code (IaC) with Azure DevOps (e.g., ARM Templates, Terraform basics)
- Monitoring and feedback loops in a DevOps environment

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure DevOps Engineer**
- > **CI/CD Pipeline Specialist**
- > **Cloud Infrastructure Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisites for enrolling in the Azure DevOps Online Course?

This intermediate-level course assumes a basic understanding of software development concepts, including familiarity with a programming language (e.g., C#, Python, Java) and general knowledge of version control systems like Git. Prior exposure to cloud concepts, particularly Azure, would be beneficial but is not strictly required as foundational aspects are covered.

Q: Does this course prepare me for any official Microsoft Azure certifications, specifically AZ-400?

While this Azure DevOps Online Course covers many of the core competencies required for the Microsoft Azure DevOps Engineer Expert (AZ-400) certification, it is not a direct exam preparation course. It provides a strong foundational and practical skill set in Azure DevOps services. To fully prepare for the AZ-400 exam, additional self-study, practice tests, and a deeper dive into specific exam objectives would be recommended after completing this course.

Q: What kind of hands-on projects or practical exercises will I complete during this 32-hour course?

This course is highly practical and includes numerous hands-on labs and exercises. You will gain experience by setting up real-world scenarios, such as configuring Git repositories in Azure Repos, building YAML-based CI/CD pipelines for various application types (e.g., .NET, Node.js), deploying applications to Azure App Service or virtual machines, managing work items in Azure Boards, and exploring basic infrastructure as code deployments. The objective is to build a functional end-to-end DevOps pipeline.

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.

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