

Azure DevOps Engineer: AZ-400 Exam Mastery & Certification Prep

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Course Overview:

The "Azure DevOps Engineer Certification Prep: Master the AZ-400 Exam" is a corporate training course designed to fully equip professionals with the skills, tools, and mindset needed to pass the AZ-400 exam and become certified Azure DevOps Engineers. This intensive program merges theoretical knowledge with hands-on practical application through real-world scenarios. It covers every major aspect of the certification path—from Azure Pipelines and Infrastructure as Code with Azure to continuous integration/deployment practices and test management.

Participants will engage in Azure DevOps Hands-On Training, including Azure DevOps Labs and Projects, simulate Microsoft Azure DevOps Practice Tests, and build skills aligned with the Microsoft Azure DevOps Expert Course. This AZ-400 Certification Training ensures that learners not only prepare for the Microsoft DevOps Exam Prep Course but also understand how to apply DevOps tools in real environments. Whether you're looking to Learn Azure DevOps from Scratch or refine your expertise, this Azure DevOps Online Course is tailored for professional development.

Target Audience:

- DevOps Engineers
- Cloud Engineers
- Software Developers and Testers
- IT Operations Professionals
- Release Managers
- Technical Project Managers

Targeted Organizational Departments:

- IT & DevOps Teams
- Software Engineering Departments
- Infrastructure & Cloud Management Units
- Quality Assurance QA Teams
- Application Lifecycle Management Divisions

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Targeted Industries:

- IT Services and Consulting
- Cloud Solutions Providers
- Software Development Companies
- Financial Services & Banking
- Healthcare IT
- E-commerce Platforms

Course Offerings:

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

- Design a DevOps strategy aligned with enterprise architecture
- Manage version control using Git and Azure Repos
- Build and deploy applications using Azure Pipelines and CI/CD Training techniques
- Implement Infrastructure as Code with Azure using Bicep, ARM, and Terraform
- Automate testing and ensure quality through integrated test plans
- Monitor applications and infrastructure using Azure Monitor and Log Analytics
- Use Azure DevOps Online Course features for team collaboration and traceability
- Prepare confidently for the AZ-400 Study Guide with Microsoft Azure DevOps Practice Test simulations

Training Methodology:

This course uses an immersive, interactive methodology built around a real-world application. Learners will participate in workshops, group exercises, case studies, and live tool demos. We adopt a flipped learning approach—blending pre-course reading, hands-on Azure DevOps Labs and Projects, and instructor-guided practice sessions. Each module includes quizzes, simulations, and collaborative feedback sessions. Throughout the training, participants will engage in iterative learning to simulate scenarios that reflect AZ-400 Certification Training objectives.

Our practical framework ensures each participant experiences the complete Microsoft DevOps Exam Prep Course cycle, making them ready for real-life DevOps challenges.

Course Toolbox:

- Azure DevOps Demo Generator via Microsoft
- Sample YAML pipeline templates
- Checklists for CI/CD process evaluation
- GitHub integration examples
- Study workbooks and the AZ-400 Study Guide outlines
- Access to Microsoft Learn sandbox participant must set up
- Microsoft Azure DevOps Practice Test samples

Note: While actual software tools are not provided, we will guide participants with insight into setting up, configuring, and testing tools that align with the Azure DevOps Training with Certification.

Course Agenda:

Day 1: Introduction to DevOps and Source Control

- **Topic 1:** Understanding Azure DevOps and DevOps culture
- **Topic 2:** Azure DevOps project structure and navigation
- **Topic 3:** Version control using Git and Azure Repos
- **Topic 4:** Branching strategies and pull requests
- **Topic 5:** Work item management and linking
- **Topic 6:** Configuring Azure Boards for team collaboration
- **Reflection & Review:** Key takeaways from source control and project management setup

Day 2: CI/CD Pipeline Configuration and Build Automation

- **Topic 1:** Introduction to CI/CD and pipeline concepts
- **Topic 2:** Creating YAML pipelines from scratch
- **Topic 3:** Setting up build agents and hosted runners
- **Topic 4:** Artifact publishing and storage
- **Topic 5:** Integrating unit testing and linting in CI
- **Topic 6:** Creating pipeline templates and reusable tasks
- **Reflection & Review:** Pipeline optimization and automation strategies

Day 3: Continuous Delivery and Infrastructure as Code

- **Topic 1:** Multi-stage release pipelines and deployment gates
- **Topic 2:** Infrastructure as Code with ARM templates
- **Topic 3:** Writing and deploying Bicep files
- **Topic 4:** Terraform integration with Azure DevOps
- **Topic 5:** Using Azure Key Vault in release pipelines
- **Topic 6:** Validating deployments and infrastructure drift
- **Reflection & Review:** Comparing IaC tools and finalizing the delivery process

Day 4: Monitoring, Testing, and Security

- **Topic 1:** Integrating test plans and manual testing
- **Topic 2:** Application insights and Azure Monitor overview
- **Topic 3:** Using Log Analytics and custom dashboards
- **Topic 4:** Implementing secure DevOps with compliance policies
- **Topic 5:** Managing secrets and service connections securely
- **Topic 6:** Feedback loops and performance review mechanisms
- **Reflection & Review:** Security, QA, and observability integration in DevOps

Day 5: Certification Readiness and Final Simulation

- **Topic 1:** Overview of AZ-400 exam format and objectives
- **Topic 2:** Sample Microsoft Azure DevOps Practice Test Walkthrough
- **Topic 3:** Troubleshooting pipeline and environment errors
- **Topic 4:** Exam question breakdown and study techniques
- **Topic 5:** Reviewing AZ-400 Study Guide checkpoints
- **Topic 6:** Crafting a personal roadmap for certification
- **Reflection & Review:** Readiness check and Q&A for final preparation

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

While prior knowledge of Azure services and basic Git version control is helpful, this course includes foundational concepts for those seeking to Learn Azure DevOps from Scratch.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans one week, approximately 20-25 hours of instruction.

Is it necessary to set up an Azure DevOps environment before attending the course?

Participants are encouraged to set up a free Azure DevOps account to practice independently. The course includes demos and walkthroughs, but having your own environment will maximize hands-on learning.

How This Course is Different from Other Azure DevOps Engineer Certification Prep Courses:

Unlike many generic Azure DevOps Online Courses, this program ensures every concept is grounded in real implementation, not just theory. The course also blends Azure DevOps Hands-On Training with simulated Microsoft Azure DevOps Practice Tests to build true exam confidence.

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With focused modules on Azure Pipelines and CI/CD Training, Infrastructure as Code with Azure, and security management, participants receive the full spectrum of the AZ-400 Certification Training. Emphasis on participant collaboration, team-based labs, and tool walkthroughs distinguish this course from others—especially for those looking to Learn Azure DevOps from Scratch or refine existing skills. You won't just study; you'll practice, evaluate, and build readiness for the Azure DevOps Engineer Expert Exam.

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- Data Analytics Training and Data Science Courses
- Digital Government & Public Service Training Courses
- Education and Learning Development Training Courses
- Environment & Sustainability Training Courses
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- Finance and Accounting Training Courses
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