



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



AGILE LEADERS
Training Center

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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

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

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

Day 2: CI/CD Pipeline Configuration and Build Automation

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

Day 3: Continuous Delivery and Infrastructure as Code

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

Day 4: Monitoring, Testing, and Security

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

Day 5: Certification Readiness and Final Simulation

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

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 five days, 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.

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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أمستردام - هولندا



أنقرة - تركيا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلاند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

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روما - ايطاليا



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جوهانسبرغ - جنوب افريقيا



جنيف - سويسرا



شهر الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة
الامريكية



زنبار - تنزانيا



طوكيو - اليابان



طشقند - اوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة
الامريكية

مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



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WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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