

Szkolenie: Microsoft
AZ-400T01-T07 Azure DevOps Engineer Expert (exam AZ-400)

FORMA SZKOLENIA	MATERIAŁY SZKOLENIOWE	CENA	CZAS TRWANIA
Stacjonarne	Cyfrowe	3600 PLN NETTO*	5 dni
Stacjonarne	Tablet CTAB	4000 PLN NETTO*	5 dni

* (+VAT zgodnie z obowiązującą stawką w dniu wystawienia faktury)

LOKALIZACJE

Kraków - ul. Tatarska 5, II piętro, godz. 9:00 - 16:00

Warszawa - ul. Bielska 17, godz. 9:00 - 16:00

DOSTĘPNE TERMINY

2019-09-09 | 5 dni | Kraków

2019-11-18 | 5 dni | Warszawa

Cel szkolenia:

Pięciodniowe szkolenie **AZ-400T01-T07 Azure DevOps Engineer Expert (exam AZ-400)** zawiera w sobie następujące moduły: [AZ-400T01 Implementing DevOps Development Processes](#), [AZ-400T02 Implementing Continuous Integration](#), [AZ-400T03 Implementing Continuous Delivery](#), [AZ-400T04 Implementing Dependency Management](#), [AZ-400T05 Implementing Application Infrastructure](#), [AZ-400T06 Implementing Continuous Feedback](#), [AZ-400T07 Designing a DevOps Strategy](#).

Plan szkolenia:

- AZ-400T01 Implementing DevOps Development Processes
 - Getting started with Source Control
 - What is Source Control?
 - Benefits of Source Control
 - Types of source control systems
 - Introduction to Azure Repos
 - Migrating from TFVC to Git
 - Authenticating to your Git Repos
 - Scaling git for enterprise DevOps
 - How to structure your git repo

- Git Branching workflows
- Collaborating with Pull Requests
- Why care about GitHooks?
- Fostering Internal Open Source
- Git Version
- Public projects
- Files in Git
- Implement & Manage Build Infrastructure
 - The concept of pipelines in DevOps
 - Azure Pipelines
 - Evaluate use of Hosted vs Private Agents
 - Agent pools
 - Pipelines & Concurrency
 - Azure DevOps and Open Source projects
 - Azure Pipelines YAML vs Visual Designer
 - Setup private agents
 - Integrate Jenkins with Azure Pipelines
 - Integration external source control with Azure Pipelines
 - Analyze & Integrate Docker multi-stage builds
- Managing application config & secrets
 - Introduction to Security
 - Implement secure & compliant development process
 - Rethinking application config data
 - Manage secrets, tokens & certificates
 - Implement tools for managing security and compliance in a pipeline
- Implement a mobile DevOps strategy
 - Introduction to Mobile DevOps
 - Introduction to Visual Studio App Center
 - Manage mobile target device sets and distribution groups
 - Manage target UI test device sets
 - Provision tester devices for deployment
 - Create public and private distribution groups
- AZ-400T02 Implementing Continuous Integration
 - Implementing Continuous Integration in an Azure DevOps Pipeline
 - Continuous Integration Overview
 - Implementing a Build Strategy

- Lab : Enabling Continuous Integration with Azure Pipelines
- Lab : Creating a Jenkins Build Job and Triggering CI
- Managing Code Quality and Security Policies
 - Managing Code Quality
 - Managing Security Policies
 - Lab : Managing Technical Debt with Azure DevOps and SonarCloud
 - Lab : Checking Vulnerabilities using Whi
- Implementing a Container Build Strategy
 - Implementing a Container Build Strategy
 - Lab : Existing .NET Applications with Azure and Docker
- AZ-400T03 Implementing Continuous Delivery
 - Design a Release Strategy
 - Introduction to Continuous Delivery
 - Release strategy recommendations
 - Building a High Quality Release pipeline
 - Choosing a deployment pattern
 - Choosing the right release management tool
 - Lab : Building a release strategy
 - Set up a Release Management Workflow
 - Create a Release Pipeline
 - Provision and Configure Environments
 - Manage And Modularize Tasks and Templates
 - Integrate Secrets with the release pipeline
 - Configure Automated Integration and Functional Test Automation
 - Automate Inspection of Health
 - Lab : Automating your infrastructure deployments in the Cloud with Terraform and Azure Pipelines
 - Lab : Setting up secrets in the pipeline with Azure Key vault
 - Lab : Setting up and Running Load Tests
 - Lab : Setting up and Running Functional TestsLab : Using Azure Monitor as release gate
 - Lab : Creating a Release Dashboard
 - Implement an appropriate deployment pattern
 - Introduction into Deployment Patterns
 - Implement Blue Green Deployment
 - Feature Toggles
 - Canary Releases

- Dark Launching
- AB Testing
- Progressive Exposure Deployment
- Lab : Blue-Green DeploymentsLab : Traffic Manager
- AZ-400T04 Implementing Dependency Management
 - Designing a Dependency Management Strategy
 - Introduction
 - Packaging dependencies
 - Package management
 - Implement a versioning strategy
 - Lab : Updating packages
 - Manage security and compliance
 - Introduction
 - Package security
 - Open source software
 - Integrating license and vulnerability scans
- AZ-400T05 Implementing Application Infrastructure
 - Infrastructure and Configuration Azure Tools
 - Learning Objectives
 - Infrastructure as Code and Configuration Management
 - Create Azure Resources using ARM Templates
 - Create Azure Resources using Azure CLI
 - Create Azure Resources by using Azure PowerShell
 - Additional Automation Tools
 - Version Control
 - Lab Deploy to Azure using ARM templates
 - Module Review Questions
 - Azure Deployment Models and Services
 - Learning Objectives
 - Deployment Models and Options
 - Azure Infrastructure-as-a-Service (IaaS) Services
 - Azure Automation with DevOps
 - Desired State Configuration (DSC)
 - Azure Platform-as-a-Service (PaaS) services
 - Azure Service Fabric
 - Lab Azure Automation - IaaS or PaaS deployment

- Moduel Review Questions
- Create and Manage Kubernetes Service Infrastructure
 - Learning Objectives
 - Azure Kubernetes Service
 - Lab Deploy and Scale AKS Cluster
 - Module Review Questions
- Third Party and Open Source Tools available with Azure
 - Learning Objectives
 - Chef
 - Puppet
 - Ansible
 - Cloud-Init
 - Terraform
 - Lab Provision and configure an App in Azure Using X
 - Module Review Questions
- Implement Compliance and Security in your Infrastructure
 - Security and Compliance Principles with DevOps
 - Azure Security Center
 - Lab Integrate a scanning extension or tool in an AZ DevOps pipeline/security center
 - Module Review Questions
- Course Completion
 - Final Exam
- AZ-400T06 Implementing Continuous Feedback
 - Recommend and design system feedback mechanisms
 - The inner loop
 - Continuous Experimentation mindset
 - Design practices to measure end-user satisfaction
 - Design processes to capture and analyze user feedback
 - Design process to automate application analytics Lab : Integration between Azure DevOps and Teams Lab : Feature Flags
 - Implement process for routing system feedback to development teams
 - Implement tools to track system usage, feature usage, and flow
 - Implement routing for mobile application crash report data
 - Develop monitoring and status dashboards
 - Integrate and configure ticketing systems
 - Optimize feedback mechanisms

- Site Reliability Engineering
- Analyze telemetry to establish a baseline
- Perform ongoing tuning to reduce meaningless or non-actionable alerts
- Analyze alerts to establish a baseline
- Blameless PostMortems and a Just Culture
- AZ-400T07 Designing a DevOps Strategy
 - Planning for DevOps
 - Transformation Planning
 - Project Selection
 - Team Structures
 - Lab : Agile Planning and Portfolio Management with Azure Boards
 - Planning for Quality and Security
 - Planning a Quality Strategy
 - Planning Secure Development
 - Lab : Feature Flag Management with LaunchDarkly and AzureDevOps
 - Migrating and Consolidating Artifacts and Tools
 - Migrating and Consolidating Artifacts
 - Migrating and Integrating Source Control
 - Lab : Integrating Azure Repos and Azure Pipelines with Eclipse

Wymagania:

Fundamental knowledge about Azure, version control, Agile software development, and core software development principles. It would be helpful to have experience in an organization that delivers software.

Poziom trudności



Certyfikaty:

Uczestnicy kursu **AZ-400T01-T07 Azure DevOps Engineer Expert (exam AZ-400)** otrzymują **certyfikat** ukończenia autoryzowanego szkolenia **Microsoft**.

Prowadzący:

Microsoft Certified Trainer.

Informacje dodatkowe:

Zajęcia prowadzone są w języku polskim, materiały źródłowe oraz oprogramowanie są w języku angielskim.