

Azure DevOps with Identity Solutions Training

Course Duration: 24 Hours

Course Code: AZ-400 + AZ-204

1. Course Overview

Azure DevOps with Identity Solutions Training is designed to help professionals master DevOps practices while implementing secure identity and access management using Microsoft Azure. This course covers CI/CD pipelines, Azure DevOps tools, and identity solutions like authentication, authorization, and security integration for enterprise applications.

2. What You'll Learn

- Understand core concepts of Azure DevOps and DevOps lifecycle
- Implement CI/CD pipelines using Azure DevOps tools
- Manage source code using Git and Azure Repos
- Configure Azure Pipelines for automation
- Learn identity management with Azure Active Directory
- Implement authentication and authorization mechanisms
- Secure applications using identity solutions
- Monitor, troubleshoot, and optimize DevOps workflows

3. Target Audience

- DevOps Engineers
- Cloud Engineers
- IT Professionals and System Administrators
- Software Developers
- Security Professionals

- Anyone interested in Azure DevOps and Identity Management

4. Pre-Requisites

- Basic understanding of cloud computing concepts
- Familiarity with Microsoft Azure fundamentals
- Basic knowledge of networking and security concepts
- Understanding of programming/scripting (optional but helpful)
- Basic knowledge of Git or version control systems

5. Course Content

Module 1: Introduction to DevOps & Azure DevOps

- DevOps fundamentals
- Azure DevOps services overview

Module 2: Source Control Management

- Git basics
- Azure Repos setup and management

Module 3: Continuous Integration (CI)

- Build pipelines
- Automating builds

Module 4: Continuous Delivery (CD)

- Release pipelines
- Deployment strategies

Module 5: Azure Identity & Access Management

- Introduction to Azure Active Directory
- Users, groups, and roles

Module 6: Authentication & Authorization

- OAuth, OpenID Connect
- Role-Based Access Control (RBAC)

Module 7: Security Integration in DevOps

- Secure DevOps practices
- Managing secrets and keys

Module 8: Monitoring & Optimization

- Logging and monitoring
- Performance tuning

