



# Azure DevOps Solution Expert (Option 1) Master's Program

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## About the Course

The world of DevOps has grown by leaps and bounds, with new tools and platforms emerging daily. With all these tools comes the responsibility of managing the DevOps processes and integrations effectively. In this Azure DevOps Solution Expert Masters Program, you will learn to Understand the role of transformation planning, project selection, and team structure in DevOps, Demonstrate Git Version Controlling, Understand Build Strategy and its Implementation, Integrate Azure Pipelines, Monitor AKS Cluster from Azure Monitor, Deploy a multi-container application to AKS, Configure Azure IaaS and PaaS, Set up Azure Service Fabric and much more. Azure DevOps Solution, Expert Masters Program, blends online self-paced videos that teach you the concepts, frameworks, and tools; live virtual classes that provide context and industry examples; and hands-on course-end and capstone projects that help you apply your skills in context and crystallise your learnings.

### Key Features

- 8X higher live interaction with live online classes by industry experts
- Practice labs and projects with Azure labs
- Experiential learning via real-life innovation projects and capstones
- Get noticed by the top hiring companies

### Program Outcomes

- At the end of this Azure DevOps Solution Expert program, you will:
- Develop an instrumentation strategy
- Develop a Site Reliability Engineering (SRE) Strategy
- Develop a security and compliance plan
- Manage source control





- Facilitate communication and collaboration.
- Define and implement continuous integration
- Define and implement a continuous delivery and release management strategy

### Program Eligibility Criteria and Prerequisites

There are no eligibility criteria for this Azure DevOps Solution Expert course. We recommend you come with an open mind and willingness to learn. The course is designed so that even the absolute beginners will be comfortable with the course progress. However, having fundamental knowledge of the mentioned topics might be beneficial for the learners:

- Foundational knowledge of Cloud architecture
- Fundamentals of Cloud Computing
- Basic understanding of virtualisation, networking & databases
- Proficiency in using Visual Studio IDE, PowerShell and Command-Line Interface

### Who Should Enroll in this Program?

The Azure DevOps Solutions Expert master program is designed for professionals who want to pursue a career in Cloud Computing and DevOps. The program is best suited for, but not limited to, individuals:

- Professionals aspiring to clear the Microsoft Certified: DevOps Engineer Expert Exam
- IT Professionals who want to understand Microsoft DevOps
- Cloud Professionals
- Software Developers





- Solution Architects
- System Administrators
- Project Manager
- Site Reliability Engineers
- Technical Leads

### Learning Path:







## Microsoft Azure Fundamentals

Microsoft Azure Fundamentals Training Course will familiarise you with the main principles of cloud computing and how they have been implemented in Microsoft Azure. This course will get you up to speed on Azure services, security, privacy, compliance, trust, pricing, and support.

### Key Learning Objectives:

After completing this course, you will be able to:

- Understand cloud computing, Azure, and Azure subscriptions
- Describe and create Azure web apps
- Create and configure VMs in Microsoft Azure
- Work with Azure storage
- Create and deploy databases in Azure
- Configure Azure AD

### Course Curriculum:

Module 01 - Cloud Concepts

Module 02 - Core Azure Services

Module 03 - Security, Privacy, Compliance, and Trust

Module 04 - Azure Pricing and Support





## Microsoft Azure Developer Associate AZ-204

The Azure Developer certification course prepares you for Microsoft's Azure Developer certification exam AZ-204. It covers Azure architecture, Azure technology development solutions, Azure storage services and solutions, as well as cognitive services such as computer vision, QnA Maker, Azure service solutions, and API management services.

### Key Learning Objectives:

- Implement IaaS solutions using Azure Container Registry and Instances
- Create and implement Azure App Service web apps
- Implementing Azure functions using data operations, timers, and webhooks
- Deploy Cosmos DB storage and blob storage
- Implement Azure security using authentication and authorization
- Connect and work on Azure services and third-party services

### Course Curriculum:

- Module 01 - Develop Azure Compute Solutions
- Module 02 - Develop for Azure Storage
- Module 03 - Implement Azure Security
- Module 04 - Monitor, Troubleshoot, and Optimize Azure Solutions
- Module 05 - Connect to and Consume Azure Services and Third-party Services





## Designing and Implementing Microsoft DevOps Solutions AZ-400

### Key Learning Objectives:

- Understand the role of transformation planning, project selection, and team
- structure in DevOps
- Integrate Azure Pipelines
- Monitor AKS Cluster from Azure Monitor
- Deploy a multi-container application to AKS
- Migrate and consolidate artifacts
- Use WhiteSource to manage open-source security and license
- Use secrets in the pipeline with Azure Key Vault
- Release deployment control using Azure Monitor as release gate
- Set up Azure Service Fabric
- Create Azure resources using ARM templates, Azure CLI, and Azure PowerShell.
- Automate infrastructure deployment in the cloud with Terraform and Azure Pipelines
- Manage technical debt with Azure DevOps and SonarCloud.

### Course Curriculum:

- Module 01 -Develop an Instrumentation Strategy
- Module 02 -Develop a Site Reliability Engineering (SRE) Strategy
- Module 03 -Develop a Security and Compliance Plan
- Module 04 -Manage Source Control
- Module 05 -Facilitate Communication and Collaboration
- Module 06 -Define and Implement Continuous Integration
- Module 07 -Define and Implement a Continuous Delivery and Release Management Strategy.





## Capstone Project

This capstone project will give you an opportunity to implement the skills you learned throughout this program. Through dedicated mentoring sessions, you will learn how to solve a real-world, industry-aligned problem. This project is the final step in the learning path and will enable you to showcase your expertise in cloud computing and DevOps to prospective employers.

## Elective

### Microsoft Azure Administrator Associate AZ-104

This capstone project will give you an opportunity to implement the skills you learned throughout this program. Through dedicated mentoring sessions, you will learn how to solve a real-world, industry-aligned problem. This project is the final step in the learning path and will enable you to showcase your expertise in cloud computing and DevOps to prospective employers.





