

Course Duration: 40 Hours

Module 1 - Introduction to DevOps

- Introduction to DevOps
- Understanding DevOps
- DevOps Ecosystem
- DevOps Advantages
- DevOps Engineer Skills
- DevOps Delivery Pipeline
- Azure DevOps
- What is Azure DevOps
- VSTS vs. Azure DevOps
- Core Concepts
- Azure DevOps vs. TFS
- Pricing Tiers
- Configuring DevOps Organization and Project
- Creating Azure DevOps organization
- Creating and configuring a new team project
- Manage and Configure teams in VSTS
- Cloning a Git repository into your team project
- Services available in Azure DevOps
- Marketplace
- Connect to a Project from Web Portal and Visual Studio

Module 2 - Agile Planning and Azure Boards

- Agile Planning and Azure Boards
- Overview of Agile planning tools
- Create a Project Backlog
- PowerPoint storyboarding
- Sprint Planning and Tracking
- Sprint Planning
- Identifying user stories for the next sprint
- Capacity planning
- Defining tasks to complete a user story
- Adjust work to fit team capacity
- Sharing a sprint with stakeholders
- Managing work using teams
- Tracking progress using Kanban and task boards
- Querying Items

Module 3 - Azure Repos

- Azure Repos
- Introduction to Git
- Git Workflow
- Git Concepts - Repository, Fork, Branch, Clone, Commit, Pull Requests
- Using Git and Git Tools
- Creating a local repository
- Cloning a remote repository
- Working with Git
- Staging files
- Committing files
- Adding branches to your workflow
- Merge
- Synchronizing with a remote repository
- Pull Requests
- Working with Visual Studio and command-line tools
- Create a Repository and host it in Azure Repos

Module 4 - Azure Cloud Service

- Azure Cloud Services
- Azure VM
- Azure web application
- Azure AD
- Azure AD users
- Azure AD Application

Module 5 - Azure Pipelines

- Azure Pipelines
- Introduction to Pipelines
- Core Concepts - Agents, Artifacts, Deployment Target
- Core Concepts - Pipeline, Build, Release
- Automating Builds (CI)
- Create your first Pipeline using Visual Designer
- Build and Deploy .NET Core App
- Customizing your build using tasks
- A closer look at build attributes
- Triggering builds

Module 6 - Creating Automated Release Pipelines (CD)

- configure private and public IP addresses, network routes, network interface, Creating Automated Release Pipelines (CD)
- Overview of release management
- Understanding artifacts
- Understanding environments
- Approval workflows and notifications
- A Closer Look at Build and Release Definitions
- Configuring Continuous Deployment (CD)
- Multi-machine deployment using deployment groups
- Managing secrets in the Azure Key Vault

Module 7 - Azure Test Plans

- Azure Test Plans
- Introduction to Azure Test Plan
- Test Plan, test suite, test case
- Running manual tests using the Test Runner
- Parameters and Shared Steps
- Action recording
- Creating bug work items
- Minimize retesting using impact analysis
- Create and host packages
- Using shared packages
- Protect your packages

Module 8 - Terraform

- Terraform
- Terraform as IaaS
- Configuring Terraform
- Terraform Workflow
- Deploying the Base Configuration
- Validating the Deployment
- Terraform with Azure
- Using Terraform with Azure
- Configuring Azure Resources with Terraform
- Automate Azure Infrastructure Deployment with Terraform

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