

# Azure Devops

## **Module 1 - Introduction to Azure DevOps and Azure Repos**

Introduction to Azure DevOps  
Azure DevOps Services and its Key Features  
Hands-on: Starting Off with Azure DevOps  
What is Azure Repos?  
Key concepts in Azure Repos  
Searching your code in Repos  
What is TFVC?  
Azure Repos Integration  
Azure DevOps Architecture  
Hands-on: Azure Repos with GitHub  
Hands-on: Azure Repos a Walkthrough

## **Module 2 - Azure Artifacts and Azure Test Plans**

What is Azure Artifacts?  
Working with Packages  
Feeds, Views and Upstream Sources  
Artifacts and Pipelines  
What are Azure Test Plans?  
Exploratory and Manual Testing  
Test from Kanban Boards  
Hands-on: Starting off with Azure Artifacts  
Hands-on: Manual Testing  
Hands-on: Exploratory Testing

## **Module 3 - Azure Pipelines**

What is Azure Pipelines?  
Deploy to Azure  
Key concepts in Azure Pipelines  
YAML Basics for Pipelines  
Ecosystems and Integration  
Build, Test and Deploy using Pipelines  
Manage Agents and Tasks  
Hands-on 1 – CI in Azure Pipelines  
Hands On 2 – Setting Up a build in the CI/CD Pipeline  
Hands On 2.1 – Creating a release pipeline  
Hands On 3 – CI/CD Pipeline with Artifacts

## **Module 4 - Azure Boards**

What is Azure Boards?  
Why use Azure Boards?  
Best Practices for Agile Management  
Azure Boards Concepts  
Azure Boards with GitHub  
Work Items  
Kanban Boards  
Sprints, Scrums and Plans  
Azure Boards Integrations  
Hands-on: Azure Boards with GitHub  
Hands-on: Understanding Azure Boards

## **Module 5 - Azure Terraform**

Basic Terraform Operations

Deploying end to end arch

IaC vs Configuration Management

Installing Terraform for Azure

Introduction to Terraform

What is Infrastructure as a Code

Hands On – Configuring Terraform with Azure

Hands On – Creating Azure Resources

Hands On – Creating Azure Resource Group using Terraform

## **Project**