# **Course content:**

#### **Section 1: Introduction**

- 1. Understanding Azure DevOps Service
- 2. Introduction
- 3. Getting started with Azure DevOps
- 4. Creating first project with Azure DevOps Service

#### **Section 2: Azure Boards**

- 5. Azure Boards
- 6. Azure Boards Sprints
- 7. Azure Board setting

## **Section 3: Azure Repos**

- 8. Understanding Azure Repos of Azure DevOps service
- 9. Import GIT code in Azure Repos
- 10. Creating branch and performing Pull request merge
- 11. Branching strategy
- 12. Branch polices and Build validation

# **Section 4: Azure Pipelines - Build pipelines**

- 13. Understanding Azure Pipelines
- 14. Creating first Build pipeline with Azure DevOps Service
- 15. Working with build definition
- 16. Understanding Build System concepts
- 17. Understanding and working with Hosted agents
- 18. Understanding and working with Local agents

- 19. Working with Classical Build pipelines
- 20. Continuous Integration with build triggers

### **Section 5: Azure Pipelines - Release Pipelines**

- 21. Understanding Release pipeline concepts
- 22. Creating Release pipelines
- 23. Creating a multistage environment in single pipeline
- 24. Using pre and post deployment conditions in release pipeline
- 25. Create a deployment gate

# **Section 6: Azure Test plan (Basic)**

- 26. Creating and working with Azure TestPlans
- 27. Load Testing application with Azure TestPlans

#### **Section 7: Azure Artifacts (Basic)**

- 28. Working with Azure Artifacts
- 29. Understanding Azure Artifacts
- 30. Where we stand and Summary

#### **Section 8: Deploying Azure App Service with Azure Pipelines**

- 29. Introduction to deploying Azure App Service with Azure Pipelines
- 30. Deploying Azure App Service with Azure Pipelines
- 31. Running Azure App Service

# **Section 9: Code scans and Monitoring**

- 32. Sonarqube integration for code scan
- 33. Veracode integration for application scan
- 34. Publish Test and Code coverage results
- 35. Integrate Unit and Functional test in pipeline

# **LAB Sessions:**

Lab 00 – Prepare a Development Environment

Lab 01 – Agile at Scale

Lab 02 – Source Control Management using GIT

Lab 03 – Continuous Integration

Lab 04 - Continuous Deployment