

# WorkshopPLUS - Essentials on Azure DevOps Services and GitHub

## WorkshopPLUS

**Focus Area:** Upgrade, Migration, and Deployment

**Duration:** 3 Days [Onsite / Remote]

**Difficulty:** 300 - Advanced

### Description

The Azure DevOps Services: Essentials WorkshopPLUS is a three-day, instructor-led training course that provides participants with the fundamental knowledge that is required to use Azure DevOps Services.

Best practices for working with version control, work items, and automated builds and deployments will be discussed in detail. Proficiency in these three areas is the key to unlocking the full potential of your software development efforts and becoming skillful with DevOps practices.

### Objectives

- Gain a deeper understanding of how to use Visual Studio and Azure DevOps Services to maximize team collaboration, project transparency, software quality, and overall DevOps maturity.
- Understand best practices for working with Azure Repos, Azure Pipelines and Artifacts, and Azure Boards.
- Become a successful Visual Studio and Azure DevOps Services user.

### Methodology

#### Hands-on labs

Most of the concepts covered will be supported by hands-on labs and demos.

### Agenda

#### Day 1

- Introduction to DevOps
- Projects
- Azure Repos – Git (or) Azure Repos – Team Foundation Version Control

#### Day 2

- Azure Pipelines
- Azure Artifacts
- Azure Boards – Work Items

#### Day 3

- Azure Boards – Plan and Track Projects
- Collaboration, Reporting, and Extensions
- Open-Source Software (OSS)

# Delivery Outline

## Requirements

### Participants

- Developers
- Team members who use Visual Studio and Azure DevOps services

### Skill requirements

- This WorkshopPLUS includes content that is targeted at developers, but it is also beneficial to all team members that use Visual Studio and Azure DevOps Services.

### Time commitment

- Plan for three full days. Early departure on any day is not recommended.

### Delivery requirements

- Microsoft/Windows Live ID to connect to the virtual environment
- Hardware running:
  - Supported version of Windows
  - Supported version of Office
  - Modern browser, such as Microsoft Edge (or equivalent)
- Internet access
- Azure DevOps organization.
- Visual Studio Enterprise

## Education

Day 1	Module 1: Introduction to DevOps	<ul style="list-style-type: none"> <li>• DevOps Overview</li> <li>• Azure DevOps Services</li> </ul>
Day 1	Module 2: Projects	<ul style="list-style-type: none"> <li>• Hierarchy of Azure DevOps Services</li> <li>• Projects</li> <li>• Understanding Teams and Team Explorer</li> <li>• Process</li> </ul>
Day 1	Module 3: Azure Repos: Git	<ul style="list-style-type: none"> <li>• Git Overview</li> <li>• Develop and Collaborate by Using Git</li> <li>• Use Branches</li> </ul>
Day 1	Module 4: Team Foundation Version Control	<ul style="list-style-type: none"> <li>• TFVC Overview</li> <li>• Develop by Using TFVC</li> <li>• Collaborate by Using TFVC</li> <li>• Use of Branches</li> </ul>
Day 2	Module 5: Azure Pipelines	<ul style="list-style-type: none"> <li>• Introduction to Azure Pipelines</li> <li>• Azure Pipelines Agents, Azure Pipelines YAML</li> <li>• Build and Release Pipelines (classic)</li> <li>• Library</li> </ul>
Day 2	Module 6: Azure Artifacts	<ul style="list-style-type: none"> <li>• Package Management</li> <li>• NuGet</li> <li>• Azure Artifacts</li> </ul>
Day 2	Module 7: Azure Boards: Work Items	<ul style="list-style-type: none"> <li>• Work Item Fundamentals</li> <li>• Work Item Queries</li> <li>• Customizing Work Items</li> </ul>
Day 3	Module 8: Azure Boards: Plan and Track Projects	<ul style="list-style-type: none"> <li>• Agile Planning Tools</li> <li>• Kanban Tools</li> <li>• Agile Portfolio Management</li> <li>• Charts, Dashboards, and Widgets</li> </ul>
Day 3	Module 9: Collaboration, Reporting, and Extensions	<ul style="list-style-type: none"> <li>• Collaboration – Wiki, Feedback</li> <li>• Dashboards and Reports</li> <li>• Service Hooks and Extensions</li> </ul>
Day 3	Module 10: OSS	<ul style="list-style-type: none"> <li>• Azure DevOps Services and Open-Source Software (OSS)</li> </ul>

**For more information:** Contact your Microsoft Representative for more details.