

Course duration

- 1 day

Course Benefits

- Work with Azure repos.
- Learn about Git concepts.
- Learn about Visual Studio integration.
- Learn a wide range of advanced concepts.

Course Outline

1. INTRODUCTION TO AZURE REPOS
 1. Azure DevOps overview
 2. Azure Repos overview
 3. Public vs. private repos
 4. Creating, configuring, and securing repos
 5. Hands-on
2. GIT CONCEPTS
 1. DVCS concepts and Git overview
 2. Using Git from the command line
 3. Creating/cloning a repository
 4. Git commit and history
 5. Basic Git workflows
 6. Git for Windows
 7. Hands-on
3. VISUAL STUDIO INTEGRATION
 1. Visual Studio Integration
 2. Connecting to a repository
 3. Basic Git workflows revisited
 4. Associating comments and work items
 5. Viewing commit history
 6. Ignoring files when committing
 7. Visual Studio Code Integration
 8. Hands-on
4. WORKING WITH AZURE REPOS
 1. Annotating changes (for blame/praise)
 2. Tagging
 3. Editing commit history
 4. Checkout to a previous version
 5. Reverting to a previous version

6. Resetting to a previous version
 7. Stashing changes
 8. Branching and merging
 9. Rebasing
 10. Pull requests
 11. Branch policies
 12. Code reviews using pull requests
 13. Hands-on
5. MASTERING AZURE REPOS
1. Git Hooks and Git extensions
 2. Code Search
 3. GitHub integration
 4. Forking
 5. Workflows (Git Flow, GitHub Flow)
 6. Virtual File System for Git (VFS)
 7. Repository limits
 8. Hands-on

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this Azure DevOps Services class:

- Experience with version control is recommended.

Experience in the following *would be useful* for this Azure DevOps Services class:

- Experience with Git, Visual Studio, and C# are also helpful, but not required.