



Visual Studio 2013 - Team Fundamentals

Duration	2 days	Version	2013.3
Skill level	Intermediate		
Audience	Development team members		
Products and technologies	The following product and technologies will be covered in this course <ul style="list-style-type: none">• Visual Studio 2013• Visual Studio Online or Team Foundation Server 2013		

Course Description

This two day course is designed to get your team working efficiently with Visual Studio 2013 as quickly as possible. The course focuses primarily on providing the skills and knowledge to use the features provided by Visual Studio Online or Team Foundation Server 2013 including Work Item Tracking and Version Control.

The course introduces the various components that make up Microsoft Visual Studio 2013 and the benefits of an integrated Application Lifecycle Management (ALM) suite. You will learn how to create and configure a Team Project and manage work efficiently using linked Work Items and customised queries.

The second major focus of the course examines how to use the version control system to check-in/check-out, branch, merge, shelve and much more. We cover workspaces and explain when to choose local and when to choose server workspaces.

This course looks at some of the code quality features in Visual Studio 2013 including the Visual Studio Test Explorer and the Code Review features. This course includes hands-on labs to reinforce practical skills and ensure you're ready to use the tools on your return to your workplace.

Team Foundation Server/Visual Studio Online

This course is equally applicable for teams using either Visual Studio Online or and on-premises Team Foundation Server.

Course Objectives

At the completion of this course, attendees will be able to;

- Create, configure and manage Team Projects
- Use the Team Explorer to navigate project content
- Manage work using Work Items including configuring links correctly
- Use work items such as Task and Bug to provide traceability
- Create and customise Work Item Queries to find and organise work
- Setup and manage their own custom TFS alerts (notifications)
- Configure source control folder structures
- Use the version control system effectively including branching and workspaces

- Use the MSSCCI provider to enable backward compatibility for maintaining legacy code
- Use the code quality features in Visual Studio 2013 including Test Explorer and Code Reviews
- Use Code Clone Analysis to help reduce technical debt
- Use the new Team Room feature to improve team collaboration
- Utilise the Project Portal to store project artefacts and link them to Work Items
- View the built-in reports and dashboards available in TFS 2013
- Use multiple client interfaces including the Web portal, Team Explorer and Microsoft Office

Audience

This course is designed for all Visual Studio 2013 developers who are starting work in a team with **either** Visual Studio Online or Team Foundation Server.

Pre-requisites

Attendees should be familiar with Visual Studio.

Modules

This course includes the following modules.

Module 1: Creating and configuring Team Projects

- Understanding Team Projects & Team Project Collections
- Selecting a Process Template
- Creating Team Projects
- Configuring permissions
- Deleting Team Projects

Module 2: Managing and tracking work using Work Items

- Introduction to Work Items
- Creating Work Items
- Linking Work Items to provide traceability
- Creating and using custom Work Item Queries

Module 3: Effective use of TFS Version Control

- Create source control folder structures
- Setting team project wide source control settings
- Setup and manage workspaces
- Changesets and Shelving
- Backward compatibility using the MSSCCI provider

Module 4: Branching and Merging

- Defining a branching strategy
- How to branch
- Branch visualisation and tracking changes
- Merging and resolving conflicts

- Custom differencing tools

Module 5: Unit Testing and Code Quality Tools

- Unit Testing in Visual Studio
- Visual Studio Test Explorer
- Code Metrics
- Code Clone Analysis

Module 6: Code Reviews

- Requesting a code review
- Responding to a request for code review
- Providing code review feedback

Module 7: Team Collaboration using Team Rooms

- Introducing Team Rooms
- Team Room Communication
- Managing Team Room users
- Managing Team Room events

Module 8: Build automation using Team Build

- Understanding Build infrastructure
- MSBuild vs Team Build
- Creating build definitions
- Understanding Build workflow
- Monitoring Builds

Module 9: Putting the Project Portal to best use

- Using the Project Portal
- Storing project documents in the document library
- Linking documents to Work Items

Module 10: Reports

- A lap of available reports in TFS
- Filtering reports
- Creating an adhoc report in Excel



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