

TFS 2013 Configuration & Administration

Duration	3 days	Version	2013.3
Skill level	Intermediate		
Audience	TFS Administrators, Technical team leads		
Products and technologies	The following product and technologies will be covered in this course <ul style="list-style-type: none">• Visual Studio 2013• Team Foundation Server 2013• Microsoft Test Manager 2013		

Course Description

This three day course is designed for team members who are responsible for the installation, configuration and administration of Microsoft Team Foundation Server 2013. It features an equal mix of lectures and hands-on lab exercises designed to ensure attendees gain the maximum benefit from the course.

This course has been designed to equip attendees with a solid knowledge of the many areas that a TFS champion is often called upon to configure and manage. Key topics covered in this course include product installation, security & permissions, reporting, customisation and team build.

If you're responsible for looking after your organisation's TFS Server then this is the course for you.

Team Foundation Server/Visual Studio Online

This course focuses on TFS servers hosted within your organisation (on-premise). While some topics apply to Visual Studio Online, our *Getting started with Visual Studio Online* course would be a better fit for teams using Visual Studio Online.

Course Objectives

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

- plan your TFS deployment and install TFS 2013 in a variety of topologies
- create appropriate service accounts
- use the Best Practises Analyzer to validate your TFS deployment
- plan a migration and/or upgrade to TFS 2013
- understand the value of quarterly updates and how to install them
- configure SMTP support and customise email alerts
- manage your TFS instance including backup and restore strategies
- plan your project hierarchies using Team Projects and Team Project Collections
- create, modify and delete Team Projects and Team Project Collections
- configure standard role based security for team projects
- use advanced security to manage fine grained security
- configure version control settings including backward compatibility

- customise the process template to better suit your teams requirements
- understand the reporting infrastructure and create custom Excel reports
- configure Data warehouse and OLAP cube refresh and rebuilds
- plan, install and manage build infrastructure
- optimise build infrastructure to provide fast feedback to teams

Audience

This course is designed for software development professionals responsible for the day to day administration and operation of a Team Foundation Server. Every organisation using TFS should have at least one or two "TFS champions" who are skilled in the topics and areas covered in this course.

This course is also ideal preparation of Microsoft's 70-496 exam which is part of the MCSD: Application Lifecycle Management certification.

Pre-requisites

Attendees should have some familiarity with installations of server products such as operating systems, SQL server, etc. Some experience using Visual Studio would also be beneficial.

Modules

This course includes the following modules.

Module 1: Introducing Team Foundation Server 2013

- Overview of the Visual Studio 2013 family
- Overview of TFS architecture
- Planning a TFS Deployment
- Installing and configuring TFS prerequisites
- TFS 2013 Installation
- Using the Best Practise Analyzer
- A lap around Visual Studio Online

Module 2: Upgrading or migrating to TFS

- Overview of Migration Options
- Upgrading from previous versions of TFS
- Migrating from Visual SourceSafe
- Migrating content to/from Visual Studio Online

Module 3: Managing TFS instances

- Using the TFS Administration Console
- Configuring SMTP support for TFS
- Customising email alerts
- TFS Server health monitoring
- Changing service accounts
- Viewing installed updates

Module 4: TFS Backup and Restore

- TFS Backup and Restore strategies
- Understanding the TFS databases
- Creating a backup schedule
- The restore process
- Refreshing the client data cache

Module 5: Creating and managing Team Projects

- Creating Team Projects
- Understanding Team Project Collections
- Deleting Team Projects

Module 6: Configuring Team Project level Security

- Overview of TFS security
- Configuring security using standard groups
- Understanding and configuring Teams
- Fine-grain security options
- Troubleshooting security

Module 7: Advanced Security and Permissions

- TFS Server level permissions
- Setting permissions at the Team Project Collection level
- Setting TWA Access levels
- Restricting access in TFS
- Using command line tools for managing security

Module 8: Source Control Configuration

- Create source control folder structures
- Setting project wide source control settings
- Setup and manage workspaces
- Understanding branching and merging
- Using the TF command line utility
- Using the TFS Rollback command
- Using the TFS Proxy to improve performance
- Backward compatibility using the MSSCCI provider

Module 9: Managing Process Templates

- Understanding process templates
- Basics of template customisation
- Adding new fields to Work Item Types
- Adding new Work Item Types
- Adding new queries and reports
- Updating an upgraded Team Project

Module 10: Reporting

- Understanding the Reporting Architecture
- Adding new reports
- Creating ad-hoc reports using Excel
- TFS Warehouse and OLAP Cube overview
- Changing the Data Warehouse and Analysis Services Cube processing frequency
- Rebuild the Data Warehouse and Analysis Services Cube

Module 11: Team Build

- Overview of build infrastructure
- Installing and configuring the Build Agents and Controllers
- How to scale your build infrastructure
- Overview of hosted build services



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