

TARGET AUDIENCE

This 3 Day course is intended for experienced administrators with a background in either software development or system administration. Team leaders, lead developers, and other accidental Team Foundation Server administrators are also encouraged to take this course. This course will also help a student prepare for the relevant Microsoft certification exam.

Objective of the Course

Learn about TFS editions and components.

Learn about supported topologies and environments.

Learn about must-have TFS administration tools.

Learn about hardware and software requirements.

Learn about required service accounts and permissions.

Install Team Foundation Server.

Configure Team Foundation Server.

Manage relevant SQL Server components.

Manage relevant SharePoint components.

Install and using Team Explorer.

Install and using TFS Power Tools.

Learn about team project collections and team projects.

Use and customize process templates.

MODULE 1: INTRODUCTION TO TEAM FOUNDATION SERVER

Introduction to Team Foundation Server

Editions, components, and configurations

Visual Studio Team Services comparison

TFS' support of Application Lifecycle Management

TFS administrator responsibilities and tasks

“Must-have” tools of a TFS administrator

MODULE 2: PLANNING AND DEPLOYING TFS

Planning the deployment

System requirements, software, and accounts

Installing and configuring TFS

Installing Team Explorer

Troubleshooting

MODULE 3: CONFIGURING TFS

Administrator roles and tools

Managing team project collections

Managing team projects

Managing process templates

Securing TFS, SharePoint, and SQL Server

Renaming and deleting a team project

MODULE 4: CLIENT APPLICATIONS

TFS Client Access Licenses (CAL)

Team Explorer and the web portal

Microsoft Excel and Microsoft Project

SharePoint project portal

Team Explorer Everywhere

Command-line and 3rd party tools

MODULE 5: VERSION CONTROL

Overview of Git and TFVC version control systems

Integration with Visual Studio

Using TFVC and Git version control

Basic and advanced workflows

Controlling access to version control

Command-line tools and utilities

TFS Proxy, MSSCCI Provider, and TFS Sidekicks

MODULE 6 - BUILDING AND RELEASING

Overview of the Visual Studio build system

Build agents, agent pools, agent queues

Creating and queuing a build

Monitoring, and managing a build

Securing the build process

Running tests as part of the build

Overview of Package Management

Overview of Release Management

Defining, creating, and deploying a release

MODULE 7 - UPGRADING, MIGRATING, AND INTEGRATING

Upgrading Team Foundation Server

In-place vs. migration upgrade

Performing post-upgrade tasks

Migrating work items

Migrating items under version controlled

Integrating with Team Foundation Server

Custom and 3rd party solutions

MODULE 8 - ADVANCED ADMINISTRATION

Monitoring the health of Team Foundation Server

Web-based diagnostic tools

Options for scalability and high availability

Disaster recovery, backup, and restore

Moving Team Foundation Server

Managing the data warehouse

Using PowerShell to manage TFS

MODULE 9 - CUSTOMIZING AND EXTENDING

Customizing vs. extending

Customizing a process template

Customizing a work item type

Creating default work items

Creating and using a global list

Using Witadmin.exe

Using work item templates

Creating a custom report

Using the REST API to extend Team Foundation Server