

# Administering Team Foundation Server 2015

TFS2015 | 3 Days

This three-day course provides students with the knowledge and skills to deploy, configure, and manage Microsoft Team Foundation Server 2015 and related software components.



## Course Objectives

At course completion, attendees will have had exposure to ...

- ✓ TFS editions and components
- ✓ Supported topologies and environments
- ✓ Must-have TFS administration tools
- ✓ Hardware and software requirements
- ✓ Required service accounts and permissions
- ✓ Installing Team Foundation Server
- ✓ Configuring Team Foundation Server
- ✓ Managing relevant SQL Server components
- ✓ Managing relevant SharePoint components
- ✓ Installing and using Team Explorer
- ✓ Installing and using TFS Power Tools
- ✓ Team project collections and team projects
- ✓ Using and customizing process templates
- ✓ TFS licensing and Client Access Licenses
- ✓ Connecting and using Microsoft Excel & Project
- ✓ Installing and using Team Explorer Everywhere
- ✓ Integrating TFS and SharePoint
- ✓ Using the TFS web portal
- ✓ Git and TFVC version control systems
- ✓ Basic and advanced version control workflows
- ✓ Labeling, shelving, branching, and merging
- ✓ Configuring and using check-in policies
- ✓ Controlling access to version controlled items
- ✓ Command-line and third party tools
- ✓ Configuring automated builds
- ✓ Deploying and using build agents
- ✓ Configuring agent pools and queues
- ✓ Creating and queuing automated builds
- ✓ Configuring Release Management
- ✓ Creating a release definition
- ✓ Creating and deploying a release
- ✓ Strategies for upgrading and migrating to TFS
- ✓ Integrating TFS with other systems and data
- ✓ High availability and scalability options
- ✓ Capacity planning and disaster recovery
- ✓ Backing up, restoring, and moving TFS data
- ✓ Managing the data warehouse
- ✓ Using PowerShell to manage TFS
- ✓ Customizing Team Foundation Server
- ✓ Extending Team Foundation Server

## Who Should Attend

This 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.

## Prerequisites

Before attending this course, students should have experience or familiarity with:

- ✓ Windows Server 2012, 2012 R2
- ✓ Windows security and networking basics
- ✓ SQL Server 2012 or 2014
- ✓ SharePoint 2013 or SharePoint Foundation 2013
- ✓ Visual Studio 2012, 2013, or 2015
- ✓ Their organization's ALM process and tools
- ✓ Reading and understanding Visual C# code

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## Modules

### 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
- ✓ Installing TFS Power Tools
- ✓ 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
- ✓ TF and TFPT command-line tools
- ✓ 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 Release Management
- ✓ Creating a release definition
- ✓ 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 the TFPT Process Editor
- ✓ Using work item templates
- ✓ Creating a custom report
- ✓ Using the REST API to extend TFS

## Course Designer

This course was designed by Richard Hundhausen, a Visual Studio ALM MVP, Microsoft Regional Director, and an experienced software developer and trainer.

For additional courses and learning opportunities visit <http://www.dynconcepts.com/professional-training>

