

## TFS 2015 Configuration & Administration

### Course Summary

#### Description

This newly expanded 4-day course is designed for team members who are responsible for the installation, configuration, and administration of Microsoft Team Foundation Server 2015. It features a 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, customization and team build.

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

#### Objectives

At the end of this course, students will be able to:

- Plan TFS deployment and install TFS 2015 in a variety of topologies
- Create appropriate service accounts
- Use the Best Practices Analyzer to validate a TFS deployment
- Plan a migration and/or upgrade to TFS 2015
- Understand the value of quarterly updates and how to install them
- Configure SMTP support and customize email alerts
- Keep TFS data safe using backup and restore
- Monitor the health and performance of a TFS instance
- Plan project hierarchies using team projects and team project collections
- Create, modify, rename, 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
- Customize the process template to better suit the team's requirements
- Understand the reporting infrastructure and create custom Excel reports
- Configure data warehouse and OLAP cube refresh and rebuilds
- Plan, install, and manage the new build environments introduced in 2015
- Optimize build infrastructure to provide fast feedback to teams
- Install and configure build infrastructure for legacy XAML builds (pre-2015 builds)

#### Topics

- Introducing the Microsoft Visual Studio 2015 Family
- Planning a TFS 2015 Deployment
- Installing TFS
- Upgrading to TFS 2015
- Managing TFS Instances
- TFS Backup and Restore
- Creating and Managing Team Projects
- Configuring Team Project-Level Security
- Advanced Security and Permissions
- Source Control Configuration
- Managing Process Templates
- Reporting
- Build Automation
- Supporting Legacy XAML Build

## **TFS 2015 Configuration & Administration**

### **Course Summary (con't)**

#### **Audience**

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

#### **Prerequisites**

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.

#### **Duration**

Four days

## TFS 2015 Configuration & Administration

### Course Outline

- I. Introducing the Microsoft Visual Studio 2015 Family**
  - A. What's new in Visual Studio 2015
  - B. Overview of the Visual Studio 2015 family
  - C. Overview of product features
  - D. A lap around Visual Studio Online
  - E. Project workflow across the Visual Studio 2015 suite of products
- II. Planning a TFS 2015 Deployment**
  - A. Overview of TFS architecture
  - B. Planning a TFS deployment
  - C. An overview of product licensing
- III. Installing TFS**
  - A. Installing and configuring TFS prerequisites
  - B. TFS 2015 installation
  - C. Using the Best Practice Analyzer
  - D. Integration with SharePoint
- IV. Upgrading to TFS 2015**
  - A. Overview of upgrade options
  - B. In-place vs migration-based upgrades
  - C. Performing the upgrade
  - D. Migration options from other version control providers
- V. Managing TFS Instances**
  - A. Using the TFS Administration Console
  - B. Configuring SMTP support for TFS
  - C. Customizing email alerts
  - D. TFS server health monitoring
  - E. Changing service accounts
  - F. Viewing installed updates
- VI. TFS Backup and Restore**
  - A. TFS backup and restore strategies
  - B. Understanding the TFS databases
  - C. Creating a backup schedule
  - D. The restore process
  - E. Refreshing the client data cache
- VII. Creating and Managing Team Projects**
  - A. Creating team projects
  - B. Understanding team project collections
  - C. Creating project welcome pages
  - D. Renaming team projects
  - E. Deleting team projects
- VIII. Configuring Team Project-Level Security**
  - A. Overview of TFS security
  - B. Configuring security using standard groups
  - C. Understanding and configuring teams
- IX. Advanced Security and Permissions**
  - A. Fine-grain security options
  - B. Troubleshooting security
  - C. TFS server-level permissions
  - D. Setting permissions at the team project collection level
  - E. Setting Web Access permissions
  - F. Restricting access in TFS
  - G. Using command line tools for managing security
- X. Source Control Configuration**
  - A. Create source control folder structures
  - B. Setting project-wide source control settings
  - C. Understanding workspaces
  - D. Using the TF command line utility
  - E. Using the TFS rollback command
  - F. Using the TFS proxy to improve performance
  - G. Backward compatibility using the MSSCCI provider
- XI. Managing Process Templates**
  - A. Understanding process templates
  - B. Basics of template customization
  - C. Adding new fields to work item types
  - D. Adding new work item types
  - E. Adding new queries and reports
  - F. Updating an upgraded team project
- XII. Reporting**
  - A. Understanding the reporting architecture
  - B. Adding new reports
  - C. Creating ad hoc reports using Excel
  - D. TFS warehouse and OLAP Cube overview
  - E. Changing the data warehouse and analysis services cube processing frequency
  - F. Rebuild the data warehouse and analysis services cube
- XIII. Build Automation**
  - A. Overview of build infrastructure
  - B. Installing and configuring the build agents and controllers
  - C. How to scale your build infrastructure
  - D. Overview of hosted build services
- XIV. Supporting Legacy XAML Builds**
  - A. Overview of legacy build infrastructure
  - B. Installing and configuring the build agents and controllers
  - C. How to scale your legacy build infrastructure