

Day - 1

- **Introduction to Team Foundation Server**

- Introduction to TFS
- Editions, components, configurations
- Visual Studio Online
- Application Lifecycle Management
- TFS' support of ALM
- Administrator responsibilities & tasks
- "Must-have" tools to manage TFS
- Overview of TFS licensing (i.e. CALs)
- Team Web Access
- SharePoint project portal and Reporting
- Command-line and 3rd party tools

- **Connecting to team foundation server**

- Team foundation server architecture
- Introducing team foundation server security and roles
- Team explorer
- Alternate ways to connect to tfs

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- **Installing and Configuring TFS 2015**

- Introduction
- Install Options
- TFS Pre-upgrade Tool
- Demo: Pre-upgrade Process
- Upgrading to TFS 2015
- Administrator roles and tools
- Managing team project collections
- Managing team projects
- Managing process templates
- Securing SharePoint and SQL Server
- Demo: Upgrade from TFS 2013 to TFS 2015 Update2
- Demo: Verify the Upgrade
- Demo: Project Rename
- Summary

- **Working with New Version Control Features**

- Introduction
- Version Control Enhancements
- Demo: Git Branching Enhancements
- Demo: Working with Git Branches
- Git Rebase
- Demo: Git Rebase
- Git Branch Policies
- Demo: Configure Branch Policies
- Demo: Create a Pull Request
- Demo: Resolve Branch Policy Issues
- Quick Code Edit
- Demo: Quick Code Edit
- Summary

Day - 3

- **Building Software**

- Introduction
- Build Agent
- Demo: Configure a Build Agent
- Demo: Build Capabilities
- Build Definition
- Demo: Create a Build Definition
- Running a Build
- Demo: Running a Build
- Build Customization
- Demo: Customize a Build and View Test Results
- Demo: Customize with Build Steps
- Demo: Multiple Configurations and Parallel Builds
- Demo: Build Triggers - Continuous Integration and Pull Requests
- Demo: Capabilities and Demands
- Demo: Build Definition History
- Demo: Build Definition Templates
- Summary

- **Integrating with TFS 2015**

- Introduction
- Marketplace
- Demo: Installing Marketplace Extensions
- Demo: Working with Extensions
- Demo: Manage Extensions
- Creating Extensions
- Demo: Create an Extension
- Demo: Packaging Extensions
- Demo: Install an Extension
- TFS 2015 API
- Demo: TFS 2015 API
- Service Hooks
- Demo: Service Hooks
- Summary

- **Version Control**

- Overview of TFS Version Control
- New features introduced in TFS version control 2013
- Integration with Visual Studio
- Configuring a team project for Git
- Branching, merging, and patterns on TFS and Git
- Controlling access to version control
- TF and TFPT command-line tools
- Lightweight Code Comments
- **Introducing Work item tracking**
 - Work items
 - Managing work items.
 - Project server integration

- **Process Template Customization**

- Customizing vs. extending
- Process template architecture
- Modifying a process template
- Customizing work item types
- Customizing process guidance
- Customizing Agile planning tools
- Using process template editor
- Deploy updates to process templates.

- **Advanced Team Foundation Build**

- Team Foundation Build architecture
- Implementing Continuous Integration
- Team Build community projects
- Customizing build process templates
- Build reports
- Automating Team Foundation Build

- **ALM Introduction**

- Challenges facing development teams
- ALM overview
- Features and capabilities by edition and role
- Agile Portfolio Management with TFS 2013
- Team Collaboration and Notifications.

- **Reporting and SharePoint dashboard**

- SharePoint integration
- Creating reports
- Advanced customization.

- **TFS Release Management**

- Overview
- Configuration
- Release Templates
- Releases
- Release Explorer

- **Overview of Testing Framework**

- The testing lifecycle
- Microsoft Test Manager
- Lab Management features of TFS
- Test plans, test suites, and test cases
- Coded UI tests and Integration with Build

- **Overview of Extending Team Foundation Server**

- Extending Team Foundation Server
- Relevant object models
- Extending work item tracking
- Extending version control
- Extending Team Build
- Team Foundation Services
- Integration of third party tools (Example: with HP Quality Center, etc.)

- **Administrating TFS**

- Administrative roles
- Logical architecture
- Built-in Administration tools.
- Operation intelligence hub
- TFS power tools.

- **Disaster Recovery**

- Back up tfs
- Creating backup plan

- **Security and privileges**

- Users
- Groups
- Permissions
- Security management