



Microsoft Team Foundation Server

Course ISI-1459

4 Days

Instructor-led, Hands on

Introduction

This four day, instructor-led course is aimed for software professionals including developers, testers, architects, configuration analysts and release managers who want to understand the capabilities of TFS to deliver better quality software faster.

Team Foundation Server (TFS) allows you to manage code repositories, build processes, test infrastructure, and deploy labs. TFS supports your team, enabling you to connect, collaborate, and deliver on time. Microsoft's approach to Application Lifecycle Management (ALM) provides a flexible and agile environment that adapts to the needs of your team, removes barriers between roles, and streamlines processes.

The course introduces you to creating and setting up team projects for scrum teams. You'll explore various source control repositories, branching, and merging activities, along with a demonstration of how to embed quality into every code check-in. Then, you'll discover agile project planning and management tools. Later, emphasis is given to the testing and release management features of TFS which facilitate the automation of the release pipeline in order to create potentially shippable increments.

By the end of the course, you'll have learned to extend and customize TFS plugins to incorporate them into other platforms and enable teams to manage the software lifecycle effectively.

Course Objectives

- Creating a Team Project with Dashboards, Assigning License, Adding users, and Auditing Access
- Setting up a Git repository in an existing TFVC-based Team Project
- Setting up branch policies and conducting Pull requests with code reviews
- Mapping, assigning and tracking work items shared by multiple teams
- Setting up and customizing Backlogs, Kanban board, Sprint Taskboard, and dashboards
- Creating a Continuous Integration, Continuous Build, and Release Pipeline
- Integrating SonarQube with TFBuild to manage Technical Debt
- Triggering Selenium Web Tests on a Selenium Test Grid using TFBuild
- Using Visual Studio Team Services Cloud load testing capability with new Build framework
- Extending and customizing the capabilities of Team Foundation Server using API and Process Editor

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



Prerequisites

Users must have knowledge in using source control and Visual Studio.

Course Outline

- Module 1: Team Project Setup**
- Module 2: Setting Up and Managing Code Repositories**
- Module 3: Planning and Tracking Work**
- Module 4: Building Your Application**
- Module 5: Testing Your Application**
- Module 6: Releasing Your Application**
- Module 7: Managing Team Foundation Server**
- Module 8: Extending and Customizing Team Foundation Server**