

# Implementing and Administering Microsoft Visual Studio 2008 Team Foundation Server

Course GWE62150: Two days; Instructor-led



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## Introduction

This two-day instructor-led course provides students with the knowledge and skills to implement and administer Microsoft Visual Studio 2008 Team Foundation Server. The course focuses on installation and configuration details, team projects, work items, version control, Team Build, and reporting.

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## Audience

This course is intended for experts who install, configure, and manage Microsoft Team Foundation Servers and Team System projects. The intended audience for the course work either as a team leader or server administrator in an enterprise development organization.

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## At Course Completion

After completing this course, students will be able to:

- Install and configure Microsoft Team Foundation Server.
- Administer Team Foundation Server and team projects.
- Customize process templates and work items.
- Configure Team Foundation Server version control.
- Administer a Team Build.
- Describe the architectural components and management of team project reporting.

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## Prerequisites

The target audience is expected to meet the following prerequisites:

- VS 2008 Team System 200 level knowledge and skills.
- Familiarity with VSTS SKU's and basic features or with concepts.
- Experience using Virtual PC software, Visual Studio IDE, Windows SharePoint Services 2.0, and SQL

Reporting Services.

- Proficiency using Microsoft Windows operating system.
- Experience with previous versions of Microsoft Visual Studio.
- Some experience with a .NET language (VB.NET/C#).
- Experience working in a software development team.

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## **Course Outline**

### **Module 1: Installing and Configuring Microsoft Team Foundation Server (TFS)**

This module explains how to install and configure Microsoft Team Foundation Server (TFS). The module also provides an overview to the basic concepts of TFS.

#### **Lessons**

- Planning a TFS Deployment
- Planning a TFS Installation
- Installing TFS
- Validating Installation
- Configuring TFS Components

#### **Lab: Administering TFS Instances and Team Projects**

- Installing TFS
- Verifying TFS Installation

After completing this module, students will be able to:

- Plan a TFS deployment.
- Plan a TFS installation.
- Install TFS.
- Validate installation.
- Configure TFS components.

### **Module 2: Administering Team Foundation Server Instances and Team Projects**

This module explains how to manage instances, users and groups, team projects, administration, and security in Team Foundation Server.

#### **Lessons**

- Managing a TFS Instance
- Managing Team Projects
- Configuring Authorization and Security for TFS
- Managing TFS Users and Groups
- Managing TFS Health and Availability
- Selecting a Disaster Recovery Plan for TFS

#### **Lab: Administering TFS Instances and Team Projects**

- Creating Project Groups
- Creating a Project
- Authorizing Access to a Project

- Securing SharePoint Services
- Securing SQL Server Reporting Services

After completing this module, students will be able to:

- Manage a TFS instance.
- Manage team projects.
- Configure authorization and security for TFS.
- Manage TFS users and groups.
- Manage TFS health and availability.
- Select a disaster recovery plan for TFS.

### **Module 3: Administering and Customizing Process Templates**

This module explains how to customize process templates and work items.

#### **Lessons**

- Managing Methodology Templates
- Managing Process Guidance
- Administering Process Templates
- Creating Work Item Query Language (WIQL) Queries
- Modifying Work Item Types
- Modifying a Work Item Type Workflow

#### **Lab: Customizing Process Templates**

- Exploring an Existing Process Template
- Customizing a Process Template
- Customizing Work Item Types

After completing this module, students will be able to:

- Manage methodology templates.
- Manage process guidance.
- Administer process templates.
- Create Work Item Query Language (WIQL) queries.
- Modify work item types.
- Modify a work item type workflow.

### **Module 4: Administering Team Foundation Server Version Control**

This module explains how to configure TFS version control.

#### **Lessons**

- Setting up Team Foundation Version Control
- Working with Team Foundation Version Control
- Advanced Functionality of Version Control
- Team Foundation Version Control Extensibility

#### **Lab: Administering TFS Version Control**

- Determining Requirements for Migration to TFS Version Control
- Migrating Visual SourceSafe Projects
- Configuring Version Control Security

After completing this module, students will be able to:

- Set up Team Foundation version control.
- Work with Team Foundation version control.
- Work with advanced functionality of version control.
- Describe Team Foundation version control extensibility.

### **Module 5: Administering Team Foundation Build**

This module explains how to administer Team Foundation Build.

#### **Lessons**

- Introducing Team Foundation Build
- Configuring Team Foundation Build Definitions
- Running a Team Build
- Extending Microsoft Team Build

#### **Lab: Administering a Team Build**

- Create a Continuous Integration Build
- Create Scheduled Build
- Extend Team Build Using the Team Build API

After completing this module, students will be able to:

- Introduce Team Foundation Build.
- Configure Team Foundation Build definitions.
- Run a Team Build.
- Extend Microsoft Team Build.

### **Module 6: Managing Team Project and Reporting**

This module explains how to manage and create team projects. It also describes the architectural components of reporting, best practices for template design reporting, and the troubleshooting exercise.

#### **Lessons**

- Overview of Reporting
- Architectural Components of Reporting
- Process Template Design for Reporting
- Managing Reports
- Creating Custom Team System Reports
- Troubleshooting the Data Warehouse

#### **Lab: Managing Team Project and Reporting**

- Creating the Report Server Project
- Creating the Data Retrieval Query for the Report
- Designing the Report Layout
- Deploying the Team Project Report

After completing this module, students will be able to:

- Explain the features of reporting.
- Explain the architectural components of reporting.
- Explain the process template design for reporting.

- Manage reports.
- Create custom team system reports.
- Troubleshoot the data warehouse.