



CTREC HILTON
IT ACADEMY

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Class Code: 6214
Number of Days: 3
Format: Instructor-Led

Effective Team Development using Microsoft Visual Studio Team System

Course Description: This three-day instructor-led course provides students with the knowledge and skills to manage source control management, a configurable build process, tools that aid in test driven development, and process workflow all integrated directly into Visual Studio 2008. By the end of the course, developers are equipped to use test-driven techniques and proven software processes to create high-quality software with a minimal change in overall effort.

Target Audience: This course is intended for Enterprise IT Staff who actively participate in software development projects. They participate in specification, design, coding, testing or project management

Prerequisites: Before attending this course, the student must have

- Experience and familiarity with process methodologies such as Microsoft Solutions Framework (MSF).
- Familiarity with diagramming implementations, High-level database design, Distributed systems design, Business requirements analysis.
- Experience in using source code versioning control tools, bug reporting, tracking, analysis tools, and possibly a unit testing suite.
- Experience with Microsoft Visual Studio 2003 or Microsoft Visual Studio 2005
- Experience in using source code versioning control tools, bug reporting, tracking, analysis tools, and possibly a unit testing suite. They should have experience with Visual Studio 2003 or Visual Studio 2005 and some knowledge of Visual Basic .NET or Visual C# code.

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

At Course Completion:

After completing this course, students will be able to:

- Describe integrated Application Life-Cycle Management (ALM) and how Visual Studio Team System 2008 aids the ALM process.
- Identify the components of Visual Studio Team System architecture and how these are used to improve collaboration and increase the overall efficiency of the team development process.
- Describe project management tools available in Visual Studio Team System.
- Describe the Developer and Architect tasks in Visual Studio Team System 2008.
- Access Version control and use branching and merging effectively.
- Describe MSBuild architecture and customize Team Build.
- Access data in a Visual Studio 2005 application.
- Describe tools used for performance and code analysis.
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Course Outline

Module 1: Overview of Application Lifecycle Management

This module describes integrated Application Life-Cycle Management (ALM) System and how Visual Studio Team System aids ALM.

Lessons

- Introduction to Application Lifecycle Management.
- Introduction to Team Development Features in Visual Studio Team System 2008.
- Introduction to ALM Scenarios Supported by Visual Studio Team System.

Module 2: Using Visual Studio Team System in a Team

This module explains how to develop and test team interactions with Visual Studio Team System TFS in Team System. It also describes the use of Team System to improve collaboration and the overall efficiency of the software development efforts.

Lessons

- Introduction to Visual Studio Team System Architecture.
- Using Visual Studio Team System in a Team.

Lab : Exploring Visual Studio Team System for Teams

- Scheduling a Build.
- Automating Unit Testing.
- Filing Project Documents.

After completing this module, students will be able to:

- Describe Team Foundation Client Tier, Application Tier, and Data Tier.
- Describe the Visual Studio Team System Client Architecture, Database, and Reporting.

Module 3: Overview of Project Management

This module explains how to plan projects using MSF and use Process Guidance to customize process templates. It also describes how to track projects through work items and reports.