Visual Studio 2010 ALM: Testing Tools

Get the Most from Your Microsoft Investment

Gain a deeper understanding of how to leverage the Visual Studio 2010 Testing Tools & Team Foundation Server to maximize team collaboration, project transparency, and software quality.

Overview

The VS 2010 ALM Testing Tools workshop is a three-day instructor-led training course that provides participants with a wide range of technical information about the Visual Studio 2010 Test Tooling, and specifically, how the integrated tool suite provided in Visual Studio and Microsoft Test Manager can help testers and developers create and manage robust test plans and suites throughout the Software Development Life Cycle. After the course, participants will have a deeper understanding of how to leverage Visual Studio testing tools to thoroughly test their applications and services. The course is meant to cover the variety of Test Types and Tools available in the VS 2010 release, and not necessarily dedicated to any specific type of test or tool. In depth coverage for Microsoft Test Manager and manual testing is included, as well as coverage for automated testing in Visual Studio.

Target Audience

This workshop includes content targeted mainly towards testers and software developers who wish to learn scenarios and best practices with Visual Studio 2010 Testing Tools. This workshop contains 300-level deep technical content, and prefers that attendees have a working knowledge of Visual Studio and Team Foundation Server.

Key benefits or customer evidence

During the course, participants are provided with content surrounding several different of authoring, executing, and managing tests including the following:

- Microsoft Test Manager, Test Case Management
- Manual Tests, Unit Testing, Coded UI Testing
- Web Performance Testing, Load Testing
- Test Impact Analysis, Code Coverage
Lab Requirements

Hands-on labs will require use of a Premier custom x86 virtual machine image, so adequate participant hardware will be required.

Minimum Requirements:
- Processor: 2.0 GHz Pentium III+
- Disk Space: At least 20 GB of free disk space
- Memory: 4 GB of available physical RAM

Syllabus

This workshop runs a full 3 days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

Module 1: Overview
- Visual Studio ALM tools overview
- Team Foundation Server features
- VS 2010 Testing Tools Overview

Module 2: Managing Testing Efforts with Microsoft Test Manager
- Microsoft Test Manager
- Testing Center
- Test Plans
- Test Suites
- Test Configurations

Module 3: Manual Tests
- Creating Manual Test Cases, Shared Steps
- Running Manual Tests
- Action Recordings
- Filing Bugs

Module 4: Visual Studio Testing
- Test Projects
- Test Categories
- Unit Tests
- Ordered Tests, Generic Tests

Module 5: Coded UI Tests
- Creating via the recorder, via Action Recordings
- Validation
- Data Driven UI Tests

Module 6: Web Performance Testing
- Recorder, Coded Web Tests
- Validation Rules
- Extraction Rules

Module 7: Load Testing
- With Web Performance Tests
- Test Scenarios, Mixes
- Collecting Data

Module 8: VS Lab Management
- Test Environments
- Automated Testing
- Filing Rich Bugs

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