



Test Automation, Web Performance and Load testing with Visual Studio 2013

Duration	2 days	Version	2013.3
Skill level	Advanced		
Audience	Testers, QA Engineers, Developers		
Products and technologies	The following products and technologies will be covered in this course <ul style="list-style-type: none">• Microsoft Visual Studio Ultimate• Either Visual Studio Online or Team Foundation Server 2013		

Course Description

This is 2-day course is designed for automation and performance testers who have **basic .NET coding skills**. The course is divided into two main parts. The first focuses on creating, executing and maintaining Coded UI Tests while the second part looks at Web Performance and Load Testing using Visual Studio 2013.

This course includes hands-on labs to reinforce practical skills and ensure you're ready to use the tools on your return to your workplace.

Team Foundation Server/Visual Studio Online

This course is equally applicable for teams using either Visual Studio Online or and on-premises Team Foundation Server. The load testing content includes coverage of both on-premises load testing as well as using cloud-based load testing.

Course Objectives

At the completion of this course, attendees will be able to;

- Understand the role of a tester in modern Agile teams
- Describe the testing capabilities of the Visual Studio ALM product suite
- Create Coded UI Tests from action recordings and using the Coded UI Test Builder
- Understand the structure of Coded UI Tests and edit the generated code
- Understand how objects are found and modify this behaviour
- Extend your Coded UI Tests through code
- Bind Coded UI Tests to a variety of different data sources
- Create and execute Coded UI Tests for Windows 8.x applications
- Run automated tests in a number of environments
- Understand the role of Web Performance and Load Tests
- Create and edit Web Performance Tests and analyse test results
- Create and edit Load Tests and analyse test results
- Execute load tests using the Load Test Service (Cloud-based load testing)
- Configure an environment for executing Web Performance and Load Tests

Audience

This event is designed for Automation Testers, Performance and Load Testers, Developers and QA Engineers.

Pre-requisites

NOTE CAREFULLY: Attendees are required to be reasonably proficient with coding in Visual Studio to get the most out of this course.

Modules

Module 1 - Introduction to Agile Testing

- Traditional vs Agile Testing
- How "Agile" relates to testing
- Becoming an Agile tester
- Understanding testing terminology
- Keys to effective testing

Module 2 - A lap around the testing tools in Visual Studio 2013

- A look at the Visual Studio product family
- Introducing Microsoft Test Manager 2013
- The role of Visual Studio Online/Team Foundation Server 2013

Module 3 - Introduction to Coded UI testing

- Creating a Coded UI Test
- Creating Coded UI Tests from action recordings
- Using the Coded UI Test Builder

Module 4 - Exploring Coded UI Test code

- Assigning a test case to a tester
- Navigating the Microsoft Test Runner
- Recording reliable action recordings
- Test Case fast Forward

Module 5 - Data Driving your Coded UI Tests

- Specifying a data source
- Data source options
- Modifying your code to bind data fields

Module 6 - Running Automated Tests

- Running Build Verification Tests
- Running automated tests in a Lab Environment
- Running Automated Tests in a Build-Deploy-Test workflow

Module 7 - Coded UI Testing of Windows 8.x applications

- CodedUI Test capabilities for Windows 8.x applications
- Building a UI Map for Windows 8.x applications
- Executing Coded UI tests for Windows 8.x applications

Module 8 - Introduction to Web Performance and Load Testing

- Overview of Web Performance and Load Testing
- Web Performance and Load Testing usage scenarios
- Using load tests for different types of testing including smoke, stress, performance testing

Module 9 - Creating and executing Web Performance Tests

- Creating and running a Web Performance Test
- Using the Web Performance Test Results Viewer
- Editing Web Performance Tests
- Resolving playback issues

Module 10 - Creating and executing Load Tests

- Creating and running a Load Test
- Analysing Load Test results
- Editing Load Tests using the Load Test Editor
- Using Coded UI Tests in Load Tests
- Executing Load tests using the Load Test Service (Cloud based load testing)

Module 11 - Setting up an environment for Web Performance and Load Testing

- Installing and configuring Test Agents and Controllers
- Setting up test machines
- Tips for a good testing environment



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In addition to our public schedule of courses, all ALM-Training courses can be delivered onsite for your company.



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