MICROSOFT VISUAL STUDIO 2010 TRAINING

Course Title: **VS2010 Testing 2010: Testing capabilities of Visual Studio 2010**

Course Details: A *five day* workshop, the purpose of which is to provide a highly practical introduction to the Visual Studio 2010 testing capability.

Objectives: By the end of the workshop delegates will be able to:

- Understand and use the Test Management tool for manual testing
- Understand and use the Environment and Lab management function effectively
- Understand and use the Coded UI Test automation tool
- Create, execute Load Tests and interpret results

Duration: 5 days

Dates: TBA

Venue: Onsite/offsite

Who should attend: Quality Assurance (QA) Engineers and developers using Visual Studio 2010 who would benefit by learning the testing aspects.

Prerequisites: Working knowledge of Windows, websites, browsers, general IT infrastructure and fundamental understanding of programming is very useful *but not* essential.

DAY ONE

Introducing ALM and Visual Studio ® 2010

- Overview of ALM
- Software Quality Management within ALM
- Different Areas of Testing
- Visual studio 2010 and ALM
- Work Items
- Build Process for Testers
- Roles and responsibilities within the Testing area
- Overview of Microsoft Test and Lab Manager
- Agile testing methodology and Scrum

Working with Microsoft Test and Lab Manager

- Test and Lab Manager overview
- Managing Test assets
- Executing Tests, Recording and reporting results
- Communicating bugs to developers
- Recording simple tests and automated playback

DAY TWO

Creating and managing Bugs with Microsoft Test and Lab Manager

- Managing Defects
- Reproducing Defects
- Recording video during testing
- Additional features within Microsoft Test and lab manager including intellitrace

Overview of Lab Manager

- Virtualization overview
- Test Project overview

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- Test configuration and features overview

DAY THREE

Automated Testing using Coded UI

- Identifying candidates for automation
- What can be achieved with automation
- Adopting a Test automation framework
- Using Cross-Hair utility
- Recording single application page for automation
- Parameterisation of the recorded scripts
- Adding assertions to the recorded code
- Validating Coded UI Tests
- Creating Test Cases from recorded components
- Creating Test sets using the Test Cases

DAY FOUR

Web Testing

- Overview of web testing
- Understanding HTTP traffic, recording and interpreting client requests and server responses.
- Recording and amending Web Tests, using recording tool and editing for possible errors to ensure that the simulation runs correctly.
- Parametising server responses, using Extract Rules to capture and parametise server responses
- Validating server responses, using Validate Rules to check the server responses received
- Parametising user input, using XML to create Data Sources

Unit Testing

- Unit Testing in Visual Studio 2010 Ultimate
- Code Coverage for Unit Tests

DAY FIVE

Load Testing

- An overview of load testing, what we are trying to achieve and where load testing fits in the overall test plan
- Creating Load Tests, using the Load Test Wizard
- Running Load Tests
- Understanding and sharing Load Test results
- Overview of new Load Testing features in Visual Studio® 2010 Ultimate.
- Understanding performance results, an overview of Performance Monitoring and understanding what Load Test results mean
- Working with Load Profiles
- Guidelines and considerations in load testing

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If you require more information or clarification of the above course please contact the following Visual Studio Team in your country:

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