Real-World Software Testing with Microsoft Visual Studio® 2017

Gain real world software testing techniques and technical skills using the latest Microsoft Test Manager 2017®, Visual Studio 2017®, and Team Foundation Server 2017® tools. This hands-on course covers manual testing features such as test case management, execution and reporting, and how Visual Studio® makes these processes powerful and organized. You will also learn about the newly released Visual Studio® Web Test Manager and be introduced to automated testing with Visual Studio®.

- Explore the testing components of Visual Studio® Test Professional 2017 and see how you can use these to improve software quality
- Increase productivity by planning, executing, and tracking tests using Microsoft Test Manager 2017®
- Learn how rich data collectors enhance bug reproducibility
- Support agile testing practices with features such as exploratory testing
- Increase test coverage with automated testing using Microsoft’s Visual Studio Coded UI
- Collaborate seamlessly with other team members using Team Foundation Server 2017®
- Take advantage of the latest Visual Studio 2017 virtualization integration

Enable High-Quality Software through Visual Studio Testing Tools
This course provides students with real-world software testing techniques and technical skills using the latest Microsoft Test Manager 2017, Visual Studio 2017, and Team Foundation Server 2017 tools. We will cover manual testing features such as test case management, execution and reporting, and how Visual Studio makes these processes powerful and organized. You will learn about the newly released Visual Studio Web Test Manager and be introduced to automated testing with Visual Studio. Discover how to effectively integrate QA with Team Foundation Server’s requirements, bug tracking, and work and build management capabilities. Increase automation effectiveness using virtual lab
Hands-on Experience with Visual Studio Testing Tools
This course provides hands-on experience with the detailed Microsoft testing functions and new features including: Microsoft Test Manager, Visual Studio Web Test Manager, exploratory testing, automated tests, and automated builds. Although the labs will be performed using Visual Studio 2017, most labs are also applicable to Visual Studio 2015 and 2013. Please refer to the outline for the hands-on lab details.

Who Should Attend
This course is intended for software testers who actively participate in test planning, test case development, test execution, test automation, and test environment management.

Laptop Required
Attendees are also required to bring their own laptop to be able to complete the exercises.

**Course Outline:**
Introduction to Microsoft Test Manager
Learn about setting up and managing tests using Microsoft Test Manager
- Test plans
- Test suites
- Test cases
- Parameters
- Shared steps
- Test configurations
- Test settings

Manual Testing Features with Microsoft Test Manager 2017
- Run manual tests
- Enable manual test data collection
- Fast forward manual tests
- Exploratory testing
- File bugs found during testing
- Verify bugs

Newly Released Web Test Manager 2017 Features
- Create test plan
- Web Test Runner

Software Quality Practices with Team Foundation Server 2017
- Overview of TFS
- Requirement to test cases traceability
- Acceptance-driven testing
- Track bugs throughout lifecycle
- Create queries to track work
- Understanding TFS builds
- MTM reporting
- TFS reports

Introduction to Automated Testing Features of Visual Studio 2017
- Convert manual tests to coded UI automated tests
- Create coded UI automated tests
- Record tests using coded UI Test Builder
- Use coded UI map editor
- Create automated testing verification
- Data-driven automated tests
- Overview of web tests
- Overview of load tests

Overview of Automation with Virtual Lab Environments
Use MTM Test Runner from web
Test case bulk entry and edit
Customize and filter views
Email and print

Virtual lab environment configuration
Connecting to virtual lab environments
Running automated tests with virtual lab environments

Class Schedule:
Sign-In/Registration 7:30 - 8:30 a.m.
Morning Session 8:30 a.m. - 12:00 p.m.
Lunch 12:00 - 1:00 p.m.
Afternoon Session 1:00 - 5:00 p.m.
*Times represent the typical daily schedule. Please confirm your schedule at registration.*

Price:
$1995

Course Fee Includes:
- Tuition
- Course notebook
- Continental breakfasts and refreshment breaks
- Lunches
- Letter of completion