QA/QTP with Selenium Course Content:35-40hours

Course Outline

Manual testing: Manual testing is crucial for the thorough testing of software applications.

Manual testing requires a tester to perform manual test operations on the test software without the help of

Test automation. This course provides you with a thorough understanding of Software Test Life Cycle.

Manual Testing Content

- Basics Of Software testing
- SDLC(Software development Life cycle)
- STLC (Software Testing Life cycle)
- Levels of Testing
- Unit Testing
- System Testing
- Integration Testing
- UAT Testing
- Types of Testing
- Sanity Tsting
- Functional Testing
- Regression Testing
- Compatability Testing
- ReTesting and etc..
- Testing techniques and etc.
- Methods of testing

Automation Testing: Automation is justified where repeatable consistent tests can be run over

- a stable environment. The course provides an introduction to testing tools and test automation adopting a
- Practical Orientated Approach to take you through different Software Testing & Automation. The course
- gives the knowledge that is necessary to avoid pit falls of test automation

Automated Testing Tools:
- **Fuctional Tool**
- 1.QTP (Basics and Advanced) Recording level and Scripting level.
- 2. Win Runner

Performance Tool:

- 1 Load Runner
- Management Tools:
- Test Director
- Quality Center

Quick Test Professional:

Basics Topics

- Quick test at a glance
- Record and playback
- VB Script Required for QTP
- Recording Modes
- Object Identification
- Object responsitory
- Synchronization Point
- Check points and outputs Values
- Regular Expression
- Recovery Scenario
- Actions,call to Actions in Scripts
- Data Driving Testing
- Batch Excution
- Running the test
- Debugging Tests
- Introduction to frame work

Advanced Topics

- VB Script Required for QTP
- Writing Scripting
- Concept of Descriptive Programming
- Recovery Scenario with Regular Expressions
- Functions, How to call Function in QTP
- Class, call the Fnction from the Class
- Creeating Objects
- Environment Variables
- Excelsheet Methods
- DataTable Methods
- Writing the Script for WebBased App and Windows based App
- Building Frame Work of a real life application,and different types of Frame Wrorks

- Like keywordDriven FrameWork,DataDriven FrameWork,Hybrid Frame Work.

Selenium IDE

- Downloading and Installing Selenium IDE
- Introduction to IDE and its features
- Record and Playback of sample test case
- Building test cases & test suites
- Selenese commands and their proper usage
- Running, Pausing and Debugging in Selenium IDE
- Understanding various element locators(ID, Name, XPATH, CSS, DOM)
- Regular expressions
- Using JavaScript in Selenium IDE

- User-extension.js in Selenium IDE
- Flow control and loops in IDE
- Testing AJAX applications
- Handling popup and alerts
- Regression testing with minimum changes
- Best practices & TIPs

Selenium Remote Control (RC)

- Installation and configuration
- Running HTML test suites against various browsers
- Creating batch files

- Cross browser testing
- Test scripting with Selenium RC

Hudson

- Installation and configuration
- Schedule tests
- Compare test results against various releases

Selenium WebDriver

- Installation and configuration
- Why use WebDriver over Selenium RC
- Using Nunit/JUnit with WebDriver
- Writing WebDriver tests using C#.Net or Java
- Test execution using NUnit/JUnit
- Cross browser testing
- Data driven testing using WebDriver

User acceptance testing

- Defining acceptance criteria
- Automating the UAT
- Limitations, Issues