

SELENIUM Testing

Duration: 30 hours

Batches: Weekdays/ Weekend

Selenium (IDE + Web Driver)

- Introduction Selenium
- Test Automation for Web Applications
- To Automate or Not to Automate?
- Introducing Selenium
- Brief History of The Selenium Project
- Selenium's Tool Suite
- Choosing Your Selenium Tool
- Supported Browsers and Platforms
- Flexibility and Extensibility
- What's in this Book?
- The Documentation Team—Authors Past and Present

Selenium-IDE

- Introduction
- Installing the IDE
- Opening the IDE
- IDE Features
- Building Test Cases
- Running Test Cases
- Using Base URL to Run Test Cases in Different Domains
- Selenium Commands – “Selenese”
- Script Syntax
- Test Suites
- Commonly Used Selenium Commands

- Verifying Page Elements
- Assertion or Verification?
- Locating Elements
- Matching Text Patterns
- The “And Wait” Commands
- The wait For Commands in AJAX applications
- Sequence of Evaluation and Flow Control
- Store Commands and Selenium Variables
- JavaScript and Selenese Parameters
- echo - The Selenese Print Command
- Alerts, Popup, and Multiple Windows
- Debugging
- Writing a Test Suite
- User Extensions
- Format
- Executing Selenium-IDE Tests on Different Browsers
- Troubleshooting

Selenium 2.0 and WebDriver

- Selenium 2.0 Features
- The Selenium Server – When to Use It

- Setting Up a Selenium-Web Driver Project
- Migrating from Selenium 1.0
- Getting Started With Selenium-Web Driver
- Introducing Web Driver's Drivers
- Commands and Operation
- Driver Specifics and Tradeoffs
- Web Driver-Backed Selenium-RC
- Selenium Web Driver Wiki
- Next Steps

WebDriver: Advanced Usage

- Explicit and Implicit Waits
- Remote Web Driver
- Advanced User Interactions
- Browser Startup Manipulation
- HTML5
- Parallelizing Your Test Runs

Selenium 1 (Selenium RC)

- Introduction
- How Selenium RC Works
- Installation
- From Selenese to a Program
- Programming Your Test
- Learning the API
- Reporting Results
- Adding Some Spice to Your Tests
- Server Options
- Specifying the Path to a Specific Browser
- Selenium RC Architecture
- Handling HTTPS and Security Popups
- Supporting Additional Browsers and Browser Configurations

- Troubleshooting Common Problems

Test Design Considerations

- Introducing Test Design
- Types of Tests
- Validating Results
- Location Strategies
- Wrapping Selenium Calls
- UI Mapping
- Page Object Design Pattern
- Data Driven Testing
- Database Validation

Selenium-Grid

User-Extensions

- Introduction
- Actions
- Assessors/Assertions
- Locator Strategies
- Using User-Extensions With Selenium-IDE
- Using User-Extensions With Selenium RC