

Test Automation Engineer - Advanced - (60 hours)

Page Object Model (POM) (10 hours)

- Introduction to Page Object Model
- Benefits of using POM
- Creating Page Classes
- Page Factory in Selenium
- Implementing Page Object Model in a test suite
- Best practices for maintaining Page Objects

TestNG for Test Management (10 hours)

- Overview of TestNG framework
- Annotations in TestNG
- TestNG configuration and XML suite files
- Test dependencies and parameterization
- Grouping and parallel execution
- Reporting in TestNG

Data-driven Testing (5 hours)

- Data-driven testing
- Data providers in TestNG
- Reading data from external sources (Excel, CSV)
- Parameterization in tests
- Handling dynamic test data

Cross-Browser Testing (5 hours)

- Overcoming challenges in cross-browser testing
- Cross-browser testing with TestNG
- Handling browser-specific drivers
- Strategies for efficient cross-browser testing

Handling Dynamic Elements (15 hours)

- Identifying dynamic elements
- Implicit and explicit waits
- FluentWait for dynamic conditions

- Handling AJAX calls
- Dynamic XPath and CSS selectors
- Strategies for dealing with dynamic content

Continuous Integration and Jenkins Integration with Selenium (15 hours)

- Introduction to Continuous Integration (CI)
- Setting up Jenkins for Selenium
- Creating and configuring Jenkins jobs
- Integrating Selenium tests with Jenkins
- Selenium Grid for parallel execution
- Running tests automatically on code commits
- CI/CD best practices
- Logging and reporting in tests
- Error handling and debugging

Optional (add extra 15 hours to the course) Appium (15 hours)

- Introduction to mobile automation with Appium
- Setting up Appium for Android and iOS
- Writing Appium tests for mobile applications
- Handling mobile gestures and interactions
- Challenges and best practices in mobile automation

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