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# SOFTWARE TESTING COURSE IN COIMBATORE

If you are looking to enhance your skills in software testing, consider enrolling in a software testing course in Coimbatore. Software testing is a crucial process in application development, as it helps identify and rectify any bugs or issues that may arise. The main goal of software testing is to ensure that the application meets the requirements and delivers the desired results, ultimately leading to a high-quality product that satisfies the customer. By conducting thorough testing, potential damages or flaws can be detected and addressed, saving costs in the long run and building customer confidence in the application. Litz Tech at Coimbatore offers courses that can provide you with the knowledge and skills needed to excel in software testing.

It covers all the necessary concepts and techniques, starting with the fundamentals and gradually moving towards more advanced topics. You'll have the opportunity to gain practical experience in both manual and automated testing, and you'll also be introduced to popular software testing technologies like Selenium WebDriver. By the end of the training, you'll have a solid understanding of software testing and be ready to embark on a successful career in this field.

## WHY SOFTWARE TESTING COURSE?

- ➡ Train from professionals with industry experience
- ➡ Learn theoretical concepts and gain hands-on training simultaneously
- ➡ Realtime Hands-On Practical Experience Training to imbibe corporate practices Get certified at the end of the training
- ➡ Receive placement support once the training is completed ➡  
Getting exposure to latest technology up gradations
- ➡ Advanced lab facility and most updated syllabus and materials will be provided with learning tools for easy learning
- ➡ You will have the access to contact the trainers at any time

## CourseSyllabus

- **IntroductiontoAutomationTesting**
- **IntroductiontoSelenium**
- **IntroductiontoJAVA**
- **ObjectOrientedProgramming**
- **IntroductiontoSeleniumIDE**
- **SeleniumWebDriver**
- **Whatis Framework**
- **TestNGFramework**
- **DataDrivenFramework**
- **HybridFramework**
- **DatabaseTesting**
- **Jenkins+Git+GitHub**
- **SeleniumGrid**

### IntroductiontoAutomationTesting

- What isAutomationtesting
- AdvantagesofAutomationtesting
- DisadvantagesofAutomationtesting.

### IntroductiontoSelenium

- HistoryofSelenium
- WhySeleniumtool
- DifferencesbetweenSeleniumandotherTools
- DifferentcomponentsinSelenium
- ReadingdatafromXMLfilesusing Java

## **Introduction to JAVA**

- Introduction to java
- Installation of Eclipse IDE
- Data types
- Control Statements
- Strings
- Arrays
- What are Functions?
- Function Input Parameters
- Function Return Types

## **Object Oriented Programming**

- Class
- Variables
- Static and non-static variables
- Static and non-static functions
- Object
- Constructor
- Inheritance
- Overloading and Overriding Functions
- Packages
- Access Modifiers
- Exception Handling
- Collections
- File Handling

# Introduction to Selenium IDE

- Installation and Introduction to IDE
- Creating first script using record and playback
- Installation of Inspector Tools and its Uses
- Generating Scripts using different Web Elements
- Handling Wait Commands
- Handling Validation Commands
- Handling Store Commands
- Limitations of IDE

## Selenium WebDriver

- First Program on selenium
- Verify Page title in Selenium WebDriver
- Navigation in selenium
- Radio button and Checkbox in Selenium WebDriver
- Handling Auto Suggestion
- Handling Dropdown List
- Handling File upload using Sikuli/AutoIT
- Handling Drag and Drop in Selenium
- Handling Mouse Hover, Keyword Events using Action

class

- Synchronization using webdriver (Waits)
- How to take screenshot using selenium
- How to Take Multiple Screenshots
- How to capture Error message using webdriver

- Handling Multiple windows
- Handling Alert Messages.
- Handling IFrames.

Cross Browsing using selenium

CompletedetailsofDynamicXPathinSelenium

Complete details on CSS in selenium

HowtodownloadfilesinSeleniumWebdriver Handling

WebTable

HandlingWebCalendar

How to use Logs File in selenium

HowtousePropertiesFileinselenium

## **What is Framework**

- What is Framework
- Types of Framework
- Use of Framework

## **TestNG Framework**

- Configure Eclipse with Selenium and TestNG
- New-Installation of TestNG Create First TestNG Program and Execute.
- Check reports generated by TestNG
- How to execute only failed test cases in Selenium Webdriver
- What is TestNG Listeners and How to implement TestNG Listener in Selenium Webdriver
- How to run group Test cases in Selenium using TestNG
- How to run Multiple Programs using TestNG.
- Execute Selenium Webdriver Test cases parallel using TestNG
- XSLT report generation using TestNG and Ant Building a BAT file to run tests using ANT
- Putting Data providers for multiple tests in a single file
- Parameterizing/Sharingsingle data provider for multiple test cases
- TestNG Maven Configuration

- Maven-surefire-report-pluginwithtesting
- ExecutingtestngfrommavenonCommandPrompt
- eneratingMavenSurefireReports
- GeneratingXSLT ReportswithMaven
- ManagingMultipletest Suites

### **DataDrivenFramework**

- WriteExcelusingApachepoi/JXL
- ReadExcelusingApachepoi/JXL
- Goalstobeachieveindatadrivenframework
- CreatingaCoreFramework
- CreateMavenProjectandPackages
- CreatingtestCases
- Buildbase test
- BuildValidationsFunctions
- BuildgenericFunctions.
- Softassertionsandextentreports
- Loggingintoreports
- Put Screenshotsto reports
- Initiatepropertiesfiles
- Buildacentralized/reusablefunctiontoextractobjects
- ReadingDatafromXLS-Parameterizingtests
- Buildtheutilityfunctionforreadingdata
- Selectively/OptionallyRuntests
- Runproject withANT/Maven/Eclipseework

### **HybridFramework**

- Whatisdatadriven Framework
- WriteExcelusingApachepoi/JXL
- ReadExcelusingApachepoi/JXL
- Goalstobeachieveindatadrivenframework
- CreatingaCoreFramework

- Deciding keywords
- Generic and application dependent Keywords
- Using reflection API to call keyword functions
- Create Maven Project and Packages
- Creating test Cases
- Build base test
- Build Validation Functions
- Build generic Functions
- Soft assertions and extent reports
- Logging into reports
- Put Screenshots to reports
- Initiate properties files
- Build a centralized/reusable function to extract objects
- Reading Data from XLS - Parameterizing tests
- Build the utility function for reading data
- Selectively/Optionally Run tests
- Run project with ANT/Maven/Eclipse

## **Database Testing**

- Install MySQL Server
- Discussion on JDBC Drivers and Other drivers
- Connection interface
- Statement and prepared statement interface
- Resultset interface
- Discussion on various commands like select, delete, update, insert queries.
- Using TestNG annotation to establish database connection
- Sample Connection on application and Validation on it



## Jenkins+ Git + GitHub

- What is Continuous Integration
- What is Jenkins and how it helps in CI
- Downloading and installing Jenkins
- Executing simple batch commands
- Scheduling time for test execution.
- Executing Selenium Project builds with ANT
- Build Triggers
- Mailing if build fails
- Configuring/Scheduling Maven Project in Jenkins
- Downloading and installing GIT
- Installing GIT and GITHUB plugins for Jenkins
- Configuring ssh host keys for GIT and Jenkins
- Git Bash commands and operations
- Uploading project to GIT using GIT Bash
- Cloning projects
- Creating branch/forks

## Selenium Grid

- Introduction to Grid
- Reading Nodes and Hubs
- Deciding number of browsers on a Node
- Deciding type of browser on Node
- Limiting number of concurrent browsers on node
- Difference between maxSession and maxInstance
- Configuring chromedriver and IEdriver exe files on grid
- Testng configurations
- Remote WebDriver and DesiredCapabilities
- Configuring JSON file format to initialize/configure hub and nodes

- Running single test on single node – serially in multiple browsers
- Running single test on single node – parallelly on multiple browsers
- Running single test on multiple nodes – each node having different browser
- Can we decide node to run test?
- Running multiple tests spread across 3 nodes – one for ie, one for firefox and one for chrome
- Node Timeout
- Prioritizing the test cases
- Prioritizer Interface and Custom Prioritizer Sharing same web driver instance among multiple tests after prioritizing them
- Grid Coding in eclipse
- Creating a Grid sample test case
- End to end scenario building and execution on Grid - demonstration on one node
- End to end scenario building and execution on Grid - demonstration on multiple nodes on virtual machine
- End to end scenario building and execution on Grid - demonstration on multiple nodes

## Our Training Benefits

Check out our innovative key features in training methodologies. Our flexible training mechanisms incorporate all techniques right from knowledge assessment till setting placement records.

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