

SOFTWARE TESTING

(Full Syllabus)

What You Will Learn ?

Software Testing Syllabus



Module 1 - Manual Testing

- Importance of Testing
- Testing Principles
- Bug Failure
- Defect
- Test scenario preparation
- Quality
- QA
- QC
- SDLC
- SDLC Models
- Agile principles
- Scrum
- Scrum Management
- RTM
- Important Testing Terms
- STLC

- Bug Reporting
- Severity
- Priority
- Test case Preparation (practical session)
- Bug lifecycle
- Reports
- Metrics
- Levels of Testing-unit testing
- Integration testing
- System Testing
- User acceptance Testing
- Static and Dynamic Testing
- White box Testing
- Blackbox Testing
- Testing Types
- API testing
- Web Application Testing
- Software testing approaches
- Different methods
- Comparison of testing approaches
- Mobile Application Checklist



Module 2 - SQL

- SQL introduction
- SQL Datatypes
- SQL basics-DDL,DML,DCL
- Comparison Operators
- Constraints
- Aggregate Functions
- Practice questions
- Joins
- Stored Procedures
- Practice Question
- Views
- Group By
- Having
- Order By Clauses
- Practice Question

Automation Testing

Module 3-JAVA

- Introduction to the java
- Java Installation
- Features and JDK
- First Sample Program
- DataTypes and Variables

- Operators
- Control Statements and Loops
- Scanner and Array
- Oops - Polymorphism (Method overloading)
- Constructor Overloading
- Types of Inheritance
- Method Overriding
- This and Super keyword
- final and static keyword
- Abstraction
- Encapsulation
- Exception
- Thread
- Thread Synchronization
- Events
- Collection - List & Set Collection
- Map & Queue
- Exam - Java

Module 4-Selenium IDE

- Selenium Introduction
- IDE Features
- Creating script Using IDE
- Recording
- Assert and verify
- Export Testcase
- Practicals
- Exam

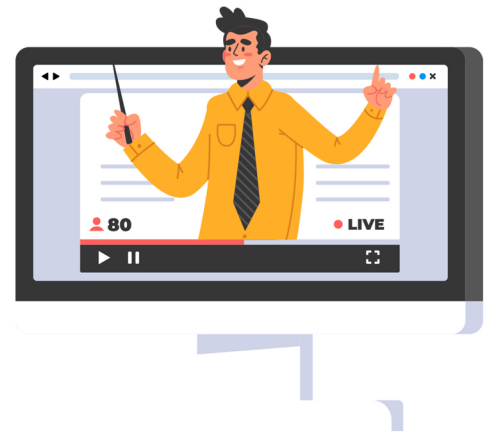
Module 5 - Selenium WebDriver

- Selenium Webdriver Introduction
- Webdrivermanager
- Locators
- Screenshot in selenium
- Handling Alerts
- BrokenLinks,
- Testng
- Waits in Selenium
- Javascript Executor in Selenium
- Navigation Commands
- Dropdown handling using select class
- Button Text verification
- Radio buttons Actions class
- Copy paste using action class
- Draganddrop program
- Double click and right click using Action class
- Mouse Hover Program
- File upload
- File upload using AUTO IT and Robot class
- Cross browser Testing
- Handling multiple windows and tabs
- Handle pops in Chrome
- Datepicker
- DataDrivenTesting
- Extended Reports

- POM Design Pattern Frameworks
- IDatadriven framework , TestNG

Module 6-JMeter

- Introduction to Jmeter
- Overview of performance testing
- Jmeter workflow
- Components of Jmeter
- Building a web Testplan
- Report generation
- Execution in NON-GUI mode Recording in Jmeter
- Blazemeter plugin Assertions
- Timers, CSV Dataset configuration
- Correlation



Module 7 - JIRA

- Agile methodology, Scrum
- Introduction to Jira
- Jira issue types
- How to create an Epic/User stories in Jira
- Creating sprints in Jira, Sprint lifecycle in Jira
- Backlogs
- Creating bugs
- Write TestCases in Jira with Zephyr plugin
- Jira project flow

Module 8 – Hands-On Practical

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