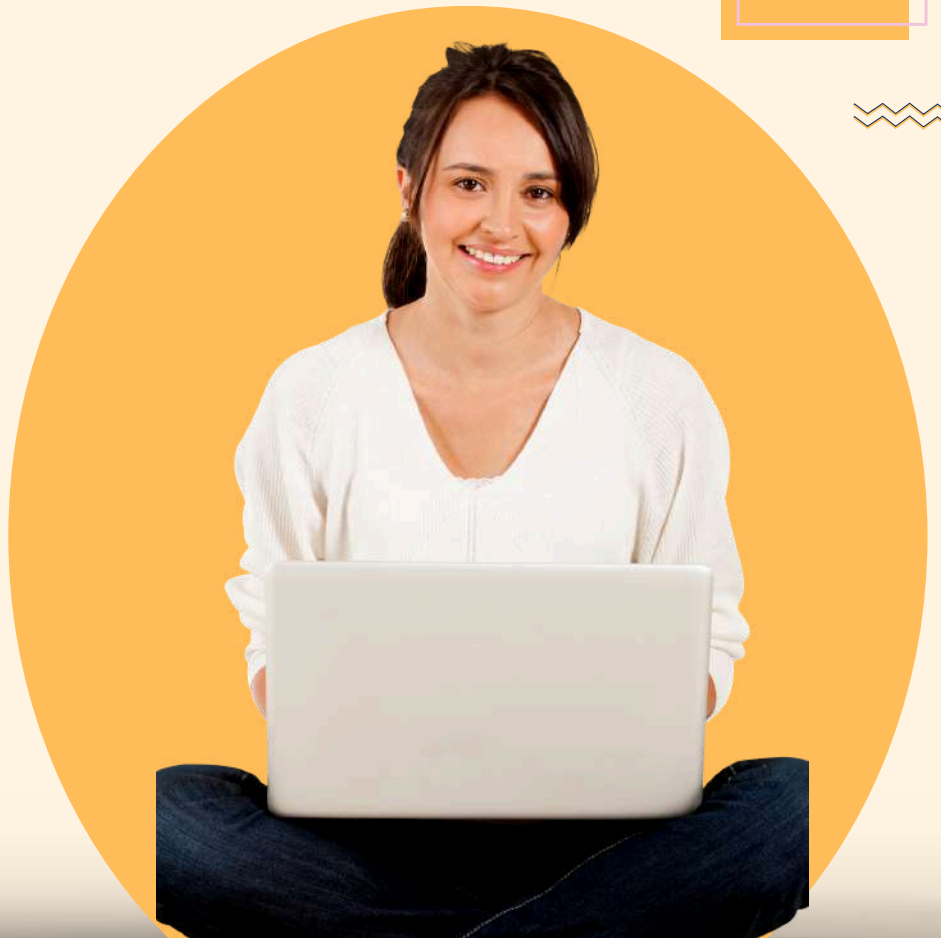# Software Testing

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SOFTWARE TESTING

Concept

Test Planning & Documentation
Test planning is the process of documenting the goals, timeline and estimation

01

Test Execution & Defect Reporting
Test execution is the process of validating software requirements

02

Continuous Integration & Deployment
aims to streamline and accelerate the software development lifecycle

03

Automation Tools
Testing tools are applications designed to verify function and/or non-functional software requirements .

04

Web App Techniques
A web application is an application program that is stored on a remote server

05

Performance Testing
A type of software testing that assesses how a system performs under a specific workload

06

Syllabus

- What is a Software? What are its Types?
- What is Software Testing?
- Why is Software Testing required in the Industry?
- Who is a Software Tester, what do they do?
- What is programming language?
- Java and IDE installation

- Java overview
- Variables and Data Types
- Classes, Objects & Methods
- Decision Making
- Loops
- Array & ArrayList
- Inheritance
- Polymorphism
- Interface
- Access Modifier
- Selenium Overview
- Components of Selenium
- Selenium WebDriver
- Download and configure WebDriver & Driver for Browsers
- Sample Automation program

- Introduction to Web driver Interface
- Concept of Browser Drivers
- Basic Methods of Web drive
- Running Tests in Google Chrome
- Running Test in Firefox
- Running Test in Edge
- Locator (Id, Name, Classname)

- Locator (Linktext, Tagname, Xpath)
- Creating customized Xpath (Relative & Obsolute)
- Synchronization Problem- Implicit Wait, Explicit
- Handling frames
- Handling Pop-ups and Alerts
- Working with Browser Windows
- CSS Selector Locators

Syllabus

- Installing Firebug & Fire path (Firefox Add-On)
- Killing the process and Cookies using selenium
- Handling HTTPs Certifications in Selenium
- Apace POI - Excel Read & Write

- Introduction to TestNG framework
- Install/Configure TestNG
- First Test Case with TestNG
- TestNG Test Suite
- TestNG Annotations
- TestNG Groups & DependOn
- Test Cases Prioritizing & Sequencing
- TestNG Asserts
- Running TestNG with Selenium
- TestNG Reporters
- TestNG Parameters & Data Provider
- TestNG DataProvider with Array
- Exeption Handling
- XML in TestNG
- Running Multiple tests using XML
- TestNG Listeners

- Integrate Selenium with Maven
- Installation & configuration of Maven
- Selenium Dependencies
- Integrate Selenium with Jenkins
- Installation & configuration of Jenkins
- Send Email for Build Status
- Scheduling the Test Cases (introduction to Corn pattern)
- Page Object Model Data Driven Frameworks