



H.No: 7-1-413/2, Beside Sonabai Temple, Near Reliacne Fresh, Balkampet Rd, Ameerpet, Hyderabad - 500038

Software Testing (Manual + Automation) Course Content

Module - 1: Introduction

- **Overview of Software Companies**
- **Overview of Software Projects**
- **Interview Process for Testers**
- Types of Jobs in IT companies
- **Types of Teams**
- **Teams Collaboration**
- **Role Chart of Test Engineer**

Module - 2: Software Development Life Cycle

- **Overview of Software Engineering**
- What is SDLC
- **SDLC Phases**
- **Waterfall Model**
- **Advantages of Waterfall**
- **Dis-Advantages of Waterfall Model**
- Spiral Model
- **Introduction to Agile**
- **Agile Terminology**
- **Spring Overview**
- Scrum
- **Retrospective Meetings**
- **Backlog Grooming**

Module - 3: Software Testing

- **Introduction to Software Testing**
- **Principles of Software Testing**
- **Software Testing Life Cycle**
- **Bug Life Cycle**
- **Types of Software Testing**
- **Levels of Testing**
- **Functional Testing**
- **Non-Functional Testing**
- **Unit Testing**
- **Integration Testing**
- **System Testing**
- **User Acceptance Testing (UAT)**
- Alpha and Beta Testing
- **Positive Testing**
- **Negative Testing**
- **End-To-End Testing**
- **Maintenance Testing**
- **Exploratory and Ad-hoc Testing**
- **Smoke and Sanity Testing**
- What is Regression Testing & When Do We Do?
- What is Retesting & When Do We Do?
- **Manual Testing Methods**
- **Test Deliverables**

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- **How To Write Test Strategy**
- **How To Write Test Plan**
- **How To Write Test Scenario**
- **Test Case Template With Explanation**
- **Bug Report Template**
- **Test Metrics**
- Requirement Traceability Matrix -**RTM**
- **Black Box Test Design Techniques**
- **Equivalence Partitioning Testing Technique**
- **Boundary Value Analysis Testing Technique**
- **Decision Table Test Design Technique**
- **State Transition Test Design Technique**
- **Localization Testing**
- **Bug Severity and Priority**
- **Defect Triage Process in Software Testing**
- What is Testing in Production
- **Test Estimation**
- **Test Report**
- **Test Strategy vs Test Plan**
- **Bug Tracking Tool Jira**
- **Module 4: CORE JAVA**
- **Java Basics**
- **Features of Java**
- **Variables and Data Types**
- What is JRE, JVM, and JDK

- **Operators**
- **Control Flow Statements**
- **Arrays**
- **Object-oriented programming**
- **Object and Class**
- Method
- Constructor
- Static & this keywords
- **Access Modifiers**
- Inheritance
- Polymorphism
- **Super Key Word**
- **Abstraction**
- **Encapsulation**
- Type casting
- **Interfaces**
- String class
- **Packages**
- **Exception Handling**
- Introduction
- **Pre-Defined Exceptions**
- **Try-Catch-Finally**
- Throws, throw
- **User Defined Exception examples**
- **Collection Framework**
- Introduction
- **Collection interface**
- List interface and its classes
- Set interface and its classes
- Map interface and its classes
- Queue interface and its classes

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Module - 5: Automation Testing

- Introduction
- What is automation testing?
- **Advantages of Automation testing**
- **Types of Automation Tools**

Module - 6: Selenium

- What is Selenium?
- Who developed Selenium?
- **Advantages of Selenium**
- Difference between Selenium and UFT
- **Selenium Components**
- Introduction to WebDriver & Comparison with Selenium RC
- **Architecture of Selenium Webdriver**
- How to install Eclipse?
- Configure Selenium WebDriver with **Eclipse**
- Working with different browser drivers
- First Selenium WebDriver Script
- **Working with WebDriver methods**
- Difference Between FindElement & **FindElements**
- **Locators in Selenium**
- Dynamic Xpath
- **Dynamic CSS**
- Handle drop-downs and WebTable
- **Handle Alerts & Popups**

- **Handle Frames/Iframes**
- **Handle Windows**
- Mouse Hover event in Selenium
- **Right Click**
- **Double Click**
- **Introduction of wait Methods**
- Use of Wait methods in selenium
- **Types of Wait Methods**
- Difference between Thread.sleep,ImplicitWati&ExplicitWait
- **Capturing screenshots**
- Capturing screenshot on failure test cases
- Handling Ajax events
- **Handling Auto Suggestions**
- **Different Selenium Exceptions**
- File upload and download
- **Robot Class, Mouse Events**
- Handling JavaScript in Selenium
- **Configure Apache POI with Eclipse**
- Workbook, Sheet, Row, Cell, methods
- HSSFWorkbook .HSSFSheet,HSSFRow .HSSFCell methods
- How to Read data from Excel file(XLS or XLSX)
- How to Write data to excel file
- **Listeners in Selenium**
- **Stale Element Reference Exception in** Selenium
- **Headless Browser Testing**
- **Introduction to Selenium Frameworks**
- **Data-Driven Framework**
- **Keyword driver Framework**

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- **Hybrid framework**
- **Page Object Model**
- Selenium with TestNG
- **TestNG Introduction**
- **Selenium with TestNG Sample Script**
- **TestNG Annotations**
- **Data-Driven Testing**
- **Running Tests in Parallel**
- **Multi-browser Testing**
- **Rerun Failed Tests**
- **Set Test Priority**
- **Dependency in TestNG**
- **Soft Assertion**
- **Timeouts in TestNG**
- **Extent Reports**
- **BUILD & CONTINUOUS INTEGRATION TOOLS**
- How to Download and Install Maven Build Tool
- **Creating Maven Selenium Project**
- **GIT Integration with Selenium**
- How to download and Install Jenkins
- **Execute TestNG Scripts in Jenkins**
- **Generating Reports after Test Execution**

- **Executing Maven Project in Jenkins**
- Create and Execute Build in Jenkins
- Send Email report based on build status
- **Selenium Continuous Integration with** Jenkins Step by Step Guide

Module - 7: Real-time Tools

- Maven
- **Git Hub**
- **Jenkins**
- **POSTMAN**
- **JMETER**
- **TestNG**

Module - 8: Interview Guide

- **Resume Preparation**
- **Interview Questions**
- **Mock Interviews**
- **Job Profile Creation**
- **Day To Day Activities Of Tester**
- **Roles & Responsibilities Of Tester**

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