

Software Testing

- Chapter 1: Introduction To Software testing
- Bug life cycle
- Chapter 2: Software development life cycle (SDLC)
- Waterfall Model
 - V – Model
 - Spiral Model
 - RAD Model
 - Prototype Model
 - Agile Methodology (Scrum / KANBAN)
- Chapter 3: Software testing life cycle (STLC)
- Chapter 4: Types of testing
- Acceptance Testing
 - Regression Testing
 - Functional Testing etc.
- Chapter 5: Levels of testing
- Chapter 6: Testing techniques
- Black Box Testing
 - White Box Testing
- Chapter 7: Test management
- Test Policy
 - Test Strategy
 - Test Methodology
 - Test Plan
 - Testing Process
- Chapter 8: Software testing in people perspective
- Risk Analysis
- Chapter 9: Basic testing terms
- Writing Test Plan
 - Writing Test Cases
- Chapter 10: Introduction to automation Testing and Performance Testing

Manual Testing Tools

1. HP Quality Centre

Mercury Quality Centre is a web-based test management tool. It gives you a centralized control over the entire testing life cycle.

2. Mantis, Bugzilla ,JIRA – Bug Tracing Tools

Mantis is the defect management tool allows us to report a defect and manage it. It is the bridge between development team and testing team and other teams involved in the project.

Additional Key benefits of this course :

This Syllabus also covers ISTQB Foundation level syllabus. After completion of the course, candidate can appear for ISTQB foundation level.

Automated Testing

- Chapter 1: **What is Automation Testing!?**
- Manual Testing Vs Automated Testing
 - Benefits of automation testing
 - When to start automation testing
- Chapter 2: **Automation testing frameworks**
- Key-word Driven
 - Data Driven
 - Hybrid
 - Modular
- Chapter 4: **Introduction to HP Quick Test Professional**
- Chapter 3: **Introduction to Selenium IDE**
- Selenium IDE Installation Steps:
 - IDE Features
 - Recording
 - Selenium Commands – “Selenese”
 - Commonly Used Selenium Commands
 - Locating Elements / Locators
 - Basic Examples
 - Test Suite Creation
 - Useful Selenium Add-Ons
 - About User Extensions
 - Selenium Commands for verification
 - Selenium IDE Commands for handling alerts
 - Java Script
 - Example programs
 - Selenium Core
 - Selenium-RC
 - Selenium Grid
 - Advantages and Limitations
- Chapter 5: **Introduction to Selenium Webdriver / Junit**
- Difference between selenium IDE-RC-webdriver
 - How to run your first Selenium WebDriver script
 - How to Create Project in Eclipse IDE
 - Start Selenium WebDriver Test Script on your own
 - Introduction to JUnit Annotations
 - How To Setup a Selenium WebDriver with TestNG

Chapter 6: Introduction to HP Load Runner

Chapter 7: JMeter

Automated Testing Tools

1. TestLink

TestLink is an open source test management tool developed in PHP. We can create milestone, Test Plan, Test Cases and provides many more features. Interesting stuff of the TestLink is that we can integrate it with the mantis and few more defect management tools.

2. Quick Test Professional

QuickTest Professional enables you to test web application, standard windows applications, Web objects, ActiveX controls, and Visual Basic applications.
Programming Language for writing scripts: JAVA

3. SQL fundamentals

4. Selenium(IDE, RC, WebDriver)

Selenium is a functional and regression testing tool that will cover Basic JAVA, Selenium IDE, Selenium Remote Control and Selenium WebDriver.

5. HP Load Runner

6. JMeter

JMeter is an open source load testing tool help us to apply virtual users to our web based application.