

Software Testing

Manual Testing ISTQB(22hrs)

Fundamentals of testing

[What is Software testing?](#)

[Why is testing necessary?](#)

[Software testing objectives and purpose](#)

[What is Defect or bugs or faults?](#)

[What is a Failure?](#)

[Defect or Bug Life Cycle](#)

[What is the difference between Severity and Priority?](#)

Seven [Principles of testing](#)

Quality

Fundamental Test Process

Independent Testing-its benefits and risks

Testing throughout the testing lifecycle

[What is Verification?](#)

[What is Validation?](#)

Capability Maturity Model (CMM-Levels)

Software Development Life Cycle

Software Development Models

Software Testing Levels

Software Test Types

Web Testing

Test Reporting

TestCase Development

Testing Techniques

Test Management & Control

Test Metrics

AUTOMATION TOOLS

1.SELENIUM(6hrs)

1. [Introduction to Selenium](#)

Selenium IDE

2. [Install Selenium IDE and FireBug](#)
3. [Introduction to Selenium IDE](#)
4. [Creating your First Selenium IDE script](#)
5. [How to use Locators in Selenium IDE](#)
6. [How to enhance a script using Selenium IDE](#)

WebDriver

7. [Introduction to WebDriver & Comparison with Selenium RC](#)
8. [Guide to install Selenium WebDriver](#)
9. [Creating your First Script in Webdriver](#)

10. [Accessing Forms in Webdriver](#)
11. [Accessing Links & Tables using Selenium Webdriver](#)
12. [Keyboard Mouse Events , Uploading Files - Webdriver](#)

2.Quick Test Professional (QTP) (12hrs)

- Characteristics of QTP, Recording modes (Normal, Low and Analog), Addins, Object, Objects identification
- Mandatory and Assistive Properties, Ordinal Identifiers, Object repository, Merging of Object repository
- Check points, Regular Expressions, GetTO vs GetRO Property
- Reporting a step with reporter events
- Actions: Its types and how to call
- Intro to VB scripting: Datatypes, Variables, Constants, Conditional statements,
- Looping statements
- User defined and Built-In functions in QTP
- Parameters, Types of Parameters
- Using Global and Action data sheets
- Debugging Scripts
- Analyzing results
- Analyzing Options under Tools Menu
- Virtual Objects
- Introducing ordinal identifier
- Adding Synchronization Points, Transactions, Batch Test
- Descriptive Programming
- Recovery Scenario

3.Load Runner(6hrs)

- Introduction to Performance Testing
- Load Runner features
- Components of Load Runner
- Performing Load Testing
- Performing Stress Testing
- Scheduling the Vusers and Test for Performance
- Analyzing the Results
- Creating Checkpoints
- Performing HTTP/HTTPS
- LoadTest
- Analyzing reports
- Debugging the Scripts

4. Quality Center (QC) (6hrs)

- Intro to Test Management
- Characteristics of QC
- SA bin
- Customizing the project in QC bin.
- Manual Testing Process
- Automation Testing Process
- Scheduling Test Runs
- Connecting QTP to QC