Training Module: Software

Testing Course length: 3 Months

Basic concepts   :   MANUAL TESTING

Basic Testing Vocabulary

Quality Assurance versus Quality

Control The Cost of Quality

Software Quality Factors

How Quality is Defined

Why Do We TestSoftware?

What is a Defect?

The Multiple Roles of the Software Tester(People Relationships)

Scope of Testing

When Should TestingOccur?

Testing Constraints

Life Cycle Testing

Independent Testing

What is a QAProcess?

Levels of Testing

Testing Techniques

Structural versus Functional Technique

Categories Verification versus Validation

Static versus Dynamic Testing

Examples of Specific Testing Techniques

Test Administration

Test Planning

Customization of the Test

Process Budgeting

Scheduling

Create the Test Plan

Prerequisites to test planning

Understand the Characteristics of the Software Being

Developed Build the Test Plan

Write the Test Plan
Test Cases:
Test case Design
Building testcases
Testdataexecution
Test Reporting
Defect Management

Test Metrics – Guidelines and usage
Test Reporting

Guidelines for writing test

reports **Test Tools used to Build Test**

Reports Managing Change

Software Configuration Management

Change Management

Risks – Risk Analysis and Management with examples

User Acceptance testing – in detail explanation with details

Case Study: How to test web, stand alone and database applications – with examples.

Help with resume and testing interview skills.

Basic Concepts : **AUTOMATION TESTING**

Selenium Fundamentals

Introduction toSelenium
Selenium Test Life Cycle

Selenium IDE

Installing Selenium IDE
Creating your First Selenium IDE
script How to use Locators in
Selenium IDE
How to enhance a script using Selenium IDE
Creating and Running Tests
Creating and Running Test Suite

Java for Selenium

Java Standard edition or core Java is enough for Selenium Testing, In Core Java, learn,

- Data Types and Variables
- Operators
- Decision Making
- Arrays
- Loops
- Classes and Objects
- String Class

Selenium WebDriver

Introduction to Selenium WebDriver
Selenium WebDriver EnvironmentSetup
Web Elements and Operations
Web ElementLocators
Element Locators
Inspecting Elements
Selenium WebDriver APICommands
Browser Commands
Commands for Web Elements
Writing Basic Selenium TestCases
Enhancing Selenium Test Cases

This Course also includes:

Tools: Postman, Jira(PMS), Eclipse

Frameworks: Cucumber

UI automation framework using Cucumber BDD