
QA, Selenium Course Content

Manual Testing

1. SDLC

- What are the different phases of SDLC?
- How does the process of Software Development Start?
- Project Initiation
- Requirement Gathering and Analysis
- What is Requirement document and what it contains?
- What is use case document and what it contains?
- What is Basic path and Alternate Path?
- Role of Business Analyst
- Example for explaining each phase
- Role of technical specification team
- What is Technical specification document?
- What is System Design?
- Role of Design team
- What is design document?
- Role of architecture team
- System development
- Role of development team
- Deliverable of Development phase
- System testing
- Role of testers and types of testing
- User acceptance testing
- System deployment
- System maintenance
- Events in the maintenance phase like bug fixes

2. STLC

- How are the phases of STLC carried out?
- What is testing?
- Role of testers
- Why do we need to test?
- Activities involved in the testing phase
- What is test plan and test case document?
- Steps of test case execution
- What does test case document contain?
- How to write test case document?

- What is required to test any application?

3. TEST CASES

- What is test case?
- What does test case document contain?
- How to write test case document?
- Different test case techniques

4. TEST PLAN

- What is Test Plan?
- How to write test plan document?
- What does the test plan document contain?
- Who writes and approves the test plan document?
- How manage the test case documents?
- What is the pass/fail criterion?

5. TYPES OF TESTING

- Different Phases of testing
- What is unit testing?
- What is Minimum acceptance testing?
- What is integration, system and system integration testing?
- What is User acceptance testing?
- What is Regression Testing?

6. DEFECT ANALYSIS

- What is a defect?
- Various Defect tracking tools
- How to use the defect tracking tools?
- How to enter the details of defect in the defect tracking tool?
- How to identify a defect?
- What is severity and priority?

7. Various Teams and their Roles

- Configuration Management Team
- Role of configuration management team
- What is Deployment?
- Deployment Team
- Role of Deployment team
- Version Control
- Various version tools and its usage
- Difference between QC and QA
- What is automation testing?
- Why, what and when to automate?
- Various tools used for automation testing

MANAGEMENT TOOL

QUALITY CENTER

1. Introduction to Quality Center

- What is Quality Center ?
- Why to use Quality Center
- Version of Quality Center
- Overview of quality Center user interface
- Various tabs in Quality center
- Requirement Module
- Requirement Module Overview
- Creating Requirement tree
- Creating Parent & Child requirements
- Understanding the Description tab
- Understanding the History tab
- Uploading attachments to requirement
- A glance at various columns in requirement
- Types of views in requirement module
- Requirement grid view
- Requirement coverage view
- Test Plan Module
- Creating folder structure
- Create test cases
- Requirement coverage
- Test Lab Module
- Overview of Test Lab
- Detail of various tabs
- Creating folders
- Creating Test sets
- Adding test cases
- Different columns in Execution Grid
- Execution Flow tab
- Scheduling Test runs
- Test Set Properties tab
- Linked Defects tab
- Running Tests manually
- Running Tests automatically
- Viewing Test results
- Quality Center Defects
- Overview of Defects
- Creating defects after test execution
- Adding defects in defect module

- Creating defects during test execution
- Linking Defects
- How to close a defect
- Closing defects after retest
- Mailing the defects
- Quality Center reports & graphs
- Why Reports & Graphs?
- How to create reports & graphs for Analysis?

AUTOMATION TESTING

QUICK TEST PROFESSIONAL

1. Introduction to QTP

- What is QTP
- Prepare Before Automation
- Application Under Test
- First look at Add-Ins for QTP
- Understanding the QTP User Interface
- Setting up preferences in QTP before recording.

2. Record and run a script

- Record a simple script
- Save the script
- Run the test script
- Understand the result

3. Introduction to Object Repository

- What is Object Repository
- Types of Object Repository
- Object Repository Manager
- Associating shared Object Repository with test

4. Shared Object Repository

- Local Object Repository
- Create a shared Object Repository
- Add objects to shared Object Repository
- Save an shared Object Repository
- Modify the shared Object Repository
- Comparing Local and Shared Object Repository

5. Synchronization

- What is Synchronization
- Synchronization in QTP
- Add Synchronization Steps for an Object

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6. Check Point

- What is Check Point
- Using Standard Check Point
- Using Text Check Point
- Using Access ability check point
- Using XML Check Point

7. Data Driven Test

- What is Data Driven test

SELENIUM:

1. Introduction to Selenium

- What is Selenium
- Use of Selenium
- Features of selenium
- Difference between Selenium and QTP

2. Selenium Components

- Selenium IDE
- Selenium Core
- Selenium RC
- Selenium Grid
- Selenium 2.0 – Web Driver

3. Selenium IDE

- Selenium Overview
- Selenium IDE Introduction
- Downloading and Installing Selenium IDE
- Recording and Running a Simple Test
- Selenium IDE – Features
- Installing Useful Tools for Writing Tests
- Selenium Concepts
- Selenium Commands
- Wait Commands
- Object Identification
- Element Locators
- Regular Expression patterns
- Selenium Test Runner
- Using Regular Expressions in Selenium IDE
- Creating Selenium Test Suites
- How to run the recorded script against other browsers

- Why companies are not using recording tools
- Limitations of Selenium IDE

4. Selenium Core

- Selenium Core Overview
- Installing Selenium Core
- Running Selenium Core Test Suites

5. Core Java Fundamentals & Language Fundamentals

- History of Java
- Features of java
- Java Programming Language Keywords
- Class and Object
- Data Types
- Array Declaration, Construction and Initialization

6. Defining, Instantiating, and Starting Threads

- Synchronizing Code
- Thread Interaction

7. About Eclipse IDE

- Installing Eclipse
- Creating Simple Project in eclipse
- Eclipse and Selenium together
- Importing and Exporting
- Debugging using Eclipse
- Exploring Eclipse – Basic
- Exploring Eclipse – Advanced
- Fire Bug, Xpath and CSS
- Introduction to Firebug
- Downloading and installing of Firebug
- Downloading and installing of xpath
- How to identify the xpath for an particular element

8. Selenium RC

- How to use TestNG and Junit in Selenium
- Introduction to TestNG
- Why TestNG
- Setting up TestNG
- Working with TestNG
- Advantages of TestNG over Junit

9. Selenium Grid

- Automation Framework
- What is Framework
- Types of Frameworks
- What is modular framework
- What is Data Driven framework
- What is Keyword driven framework
- What is Hybrid framework
- Use of Framework

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