

Software Testing Course



About QuickXpert Infotech

Best institute for IT training and placements for classroom and online training for students and corporates. We are an ISO certified institute and in the industry since 2014. Our strong training and placement team have helped thousands of students build their career.

Courses - JAVA, Dot Net, Software Testing, Web Development, Full Stack Development, MERN, MEAN, Oracle, Digital Marketing, Python, Data Analytics, Data Science & A.I., Cyber Security, Salesforce, Service Now, Tableau, Power BI, Excel, React, Angular etc.

Live Projects - MarriageKing, theVibrantBirdie, CRM etc

Corporate Trainings - GeBBS Healthcare, NVest Solutions, Infogix, PDG Software, GMV India etc.

Syllabus mentioned below.

Tools You Learn



quickxpert



& more ...

Manual Testing

Testing Fundamentals

- Quality Control
- Quality Assurance
- Functional Tests

Non Functional Tests

- Performance Testing
- Usability Testing
- Reliability Testing
- Security Testing

Life Cycles

- SDLC - Software Development Life Cycle
- STLC - Software Testing life Cycle
- Difference between SDLC & STLC

Testing Types

- Black Box Testing
- White Box Testing

Software Testing Models

- WaterFall Model
- V Model
- Agile Methodology
- Iterative Model
- RAD Model
- Agile Testing
- Advantages of Models
- Dis-advantages of Models

Test Cases

- Understanding Project
- Writing Test Cases in Excel
- Executing Test Cases

Test Design Techniques

- Static testing
- Review Process
- Roles and Responsibilities of Review Process
- Test Case Preparation
- Boundary Value Analysis
- Equivalence Partitioning
- Software Verification
- Software Validation

- Stress Testing
- Load Testing
- Endurance Testing
- Testing Metrics

Bug Life Cycle

Regression Testing

- Addition of Modules
- Testing on Addition of Modules

Other Testing Techniques

- UAT
- Alpha
- Beta

Test Management

- Risk Analysis

Database Testing

- SQL Concepts
- Database Testing Process
- SQL Queries
- Select
- Insert

- Update
- Delete
- Joins

HTML Overview

- Header and Body Tags
- Meta Tags
- Get, Post methods & difference
- HTML 5 Components & Validations overview

ISTQB (Foundation Level) Exam Preparation

- ISTQB Syllabus and advanced topics already covered in this manual testing course
- Sample MCQs questions and answer PDF provided

JIRA & Agile Testing

- Introduction to Jira Atlassian
- Definitions
- Functionalities
- Jira Software Products and Issue tracking
- Agile Framework & Manifesto
- Jira setup / account / project creation

Scrum Master

- Introduction to Scrum Master
- Creating Project using Scrum Template
- Scrum Events and Artifact
- Sprint Planing
- Scrum Roles
- Stand-ups
- Iteration/Sprint Planning Meeting
- Retrospectives
- Distributed Scrum

Projects on

- Android App
- Website
- Web Application

Automation Testing

Automation Concepts

- Description
- Definition
- Functionalities
- Regression Testing

Java Programming

- Control Structures
- If Else, For Structure Looping
- While Looping
- Do-While Looping
- Object Creation
- Methods Creation
- Arrays and Strings
- Packages
- OOPs Concepts
- Collection and Generics (Array List, Linked List, Set Interface, Hash-map, Hash-Set, Map Interface)
- JDBC Connection - covered in Adv. Automation Testing
- Exception Handling - covered in Adv. Automation Testing
- File Handling
- File IO - covered in Adv. Automation Testing
- MYSQL(Setup & Configuration)

- MySQL Workbench
- Creating Database, Tables and CRUD Operations
- JDBC Configuration and CRUD Operations

Selenium IDE

- Setup, Record / PlayBack
- Manual Editing
- Auto-script - using Commands

Selenium Web Driver

- Package API Usage
- Web Driver Commands
- Operations
- Web Driver Scripting
- Regression Testing
- Selenium Remote Control
- Selenium Grid
- Javascript Executor
- Implicit & Explicit Waits
- Selenium Exceptions

Scenario Based Automation

- Validating Forms
- Validating Application Flow
- Logging Defects

Test-NG Scripting

- Introduction
- Data Providers
- Setting Priority Level on Methods
- Enable & Disable Methods using Test NG
- POM - Page Object Model

JMeter Performance Testing Tool

- Introduction
- Where it is required?
- Installation
- Building Test Plans
- Creating & Assigning Threads in Thread Group
- Executing Test Plans through HTTP Request
- Assertions
- JDBC Connection Configuration
- JDBC Request
- Generating test report of Database

Cross Browser & Parallel Testing

- Overview
- Using TestNG to Test Multiple Browsers in Same Program e.g. Mozilla Firefox, Chrome etc.

Automation Frameworks

Maven Build

- Introduction
- Download and Install Maven plugins
- Maven Repository
- Add Dependencies in POM file
- Maven Integration with Selenium
- Generate Report

Excel Driven Framework

- Using Apache POI API Libraries in java
- Using Excel files - requires Java File IO
- Project -Get Test Data from MYSQL using Java JDBC ,Test Application using Selenium and Generate Defect Report

Data Driven Framework

- Using MYSQL Server
- JDBC and SQL Crud
- Project -Get Test Data from Excel using Apache POI,Test Application using Selenium and Generate Defect Report

Cucumber Framework

- Introduction
- Overview of BDD Framework
- Downloading and installing cucumber plugins
- Creating Feature file
- Write & Run Gherkin Test in cucumber
- Given-When-Then Structure
- Implementing Scenarios Steps
- Creating Step Definition
- Integrating Selenium and Step Definition
- Integrating JUnit with Cucumber
 - Overview of JUnit
 - Using JUnit Test Runner
 - JUnit Test Suite
- Generate Test Reports
 - Default Cucumber Report
 - Extent Report

Best Practice

Project

API Testing

Introduction to API Testing

- What is API Testing?
- Difference between API & Web Services?
- Client-Server Architecture
 - 1-Tier Architecture
 - 2-Tier Architecture
 - 3-Tier Architecture
- Layers in API Testing
- Types
 - SOAP(Simple Object Access Protocol)
 - RESTful API/Web services(Representational State Transfer)
- Methods of REST API/HTTP Request
 - Get, Post, Put, Delete methods

Payload

- Request Payload
- Response Payload

Postman

- Introduction & Installation
- Workspace
- Collections and Requests
- Working with Postman

API Testing using Postman

- Creating Collections
- Creating Request
- Creating Environment Variables
- Creating Basic Authentication
- Creating test Sample of API's
- Request JSON Format
- Response JSON Format
- How to write the javascript to validate the response
- Make the requests dynamic by taking advantage of variables

API Validations(project)

- Validating the body of first JSON response
- Validating response headers and status codes
- Understanding query parameters on sending request
- Validating status code
- Validating Response time

Jenkins

- Introduction to Jenkins
- CI/CD (Contiuuous Integration / Continuous Deployment)
- Installation
- Maven and Jenkin integration
- Create Users and Roles
- Manage and assign roles

- Plugins
- Slack Notifications
- Browser Stack
- Green Balls
- Pipeline Job
- Introduction
- Manage Jobs
- Slack integration
- View Selenium Reports on Jenkins
- Clean up

Duration

- Weekdays (MTTF, Wed is off/practice break)
 - Option 1 – 4 to 4.5 months - 1.5 to 2 hrs/day
 - Option 2 – 2.5 months – 2 to 2.5 hrs/day
- Weekends (S S)
 - Option 1 – 5 months - 2 to 2.5 hrs/day
 - Option 2 – 3 months - 2.5 to 3 hrs/day

more info - <https://quickxpertinfotech.com/software-testing-course>

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