

ASPIRE TECHSOFT PVT LTD

ISO 9001: 2015 Certified Training Institute

Full-Stack Software Testing

Duration: 60 hours

•

Batches: Weekdays/ Weekend

Fundamentals of Testing

- What is software testing?
- Basic Terminology used in Testing
- Importance of Software Testing
- Defects and Defect types
- Why is testing necessary
- Causes of Software Defects
- Roles of Software Tester in Software Development
- Characteristics of a Software Tester
- Testing principles
- Basic Testing Life Cycle

SDLC, STLC (Methodologies)

Software Development Life cycle

- Waterfall
- Spiral model
- VV model
- Iterative Model
- Incremental Model
- Agile Model
- Test Levels
- Unit Testing
- Integration Testing
- Functional Testing
- System Testing
- Acceptance Testing
 - Alpha Testing
 - Beta Testing

Non-Functional Testing

- Usability Testing
- Performance Testing
- Load Testing

- Configuration Testing
- Compatibility Testing
- Recovery Testing
- Availability Testing
- Volume Testing
- Internationalization Testing
- Localization Testing

Other Types of Testing

- Mutation Testing
- Progressive Testin
- Contingency and Migrationg
- Regression Testing
- Re Testing
- Sanity and Smoke Testing
- Maintanance Testing

Verification- Static Testing

- Inspections
- Walk through
- Peer reviews
- Review and Its Types

Validation- Dynamic Testing

Black Box

- Equivalence Partitioning (ECP)
- Boundary Value Analysis (BVA)
- Error Guessing
- Adhoc Testing
- Risk Based Testing
- Exploratory Testing
- Use case Testing

White Box

- Data Coverage
- Statemengt, Condition and Decision coverage

Email: info@aspireit.net | +91 - 9960935600 | Website: www.aspireit.net

Code Coverage

Test Management

- Software Testing Life cycle
- Test Organization
- Test Strategy
- Test Plan
- Estimates
- Test Progress Monitoring and Control
- Incident Management
- Configuration Management

Test CASES

- Objectives
- Structure of Test Case
- Sample Test Case

Defect Life Cycle

- Format of Defect Report
- Defect Lifecycle
- Meaning of different defect
- Lifecycle Status
- Severity and Priority

Why Automation

- Potential Benefits and Risks
- Introduction of a tool in an organization
- Types of Tools

Manual Testing Project

- Case Study
- Understanding Business
- Requirement
- Creating Test Case
- Executing Test Case
- Logging Defects

ISTQB Preparation

Sample Paper 1

- Sample Paper 2
- Practice Sessions

SQL Queries

- SQL Introduction
- Use of SQL for Database Testing
- Data Definition
- Data Manipulation
- Data Control
- JOINS
- SQL Queries

API Testing

- What is API
- API Testing By Using postman Tool
- Rest Assured Library Used for API Automation

AUTOMATION TESTING

Selenium Web Driver)

- Selenium setup
- Basics of Selenium
- Locators used in Selenium
- 1. Tagname
- 2. Id
- 3 Name
- 4. Classname
- 5. LinkText
- 6. Partial Link Text
- 7. CSS Selector
- 8. Xpath
- Absolute and Relative Xpath
- Selenium Web Driver Architecture
- Web Driver Interface
- Web Element Interface

Email: info@aspireit.net | +91 - 9960935600 | Website: www.aspireit.net

- Handling List
- Handling Drop-Down List
- Managing Radio buttons and Checkboxes
- Implicit and Explicit Waits
- Actions Class in Selenium
- Handling Alerts and PopUps

Framework Design In Selenium-Selenium Advance

- Page object model [POM]
- Page Factory Pattern
- TestNG Framework
- TestNG, Annotations, Listeners, Assertions
- Framework Design
- BDD Framework By Using Cucumber
- How to Craete Maven project
- Handling the Git
- CICD Jenkins tool