

ASPIRE TECHNOLOGY

ISO 9001: 2015 Certified Training Institute

Diploma in Software Testing

Duration: 60 hours

Batches: Weekdays/ Weekend

Fundamentals of Testing

- What is software testing?
- Why is testing necessary
- Testing principles

SDLC, STLC (Methodologies)

- Waterfall
- Spiral model
- VV model

Verification

- Inspections
- Walk through
- Peer reviews

Validation

- Unit Testing
- Integration Testing
- Functional Testing
- System Testing
- Acceptance Testing
 - Alpha Testing
 - Beta Testing

Non-Functional Testing

- Usability Testing
- Performance Testing
- Load Testing
- Stress Testing
- Security Testing
- Configuration Testing
- Compatibility Testing

- Recovery Testing
- Availability Testing
- Volume Testing
- Internationalization Testing
- Localization Testing

Other Types of Testing

- Mutation Testing
- Progressive Testing
- Regression Testing
- Re Testing
- Sanity and Smoke Testing

Black Box

- Equivalence Partitioning
- Boundary Value Analysis
- Error Guessing
- Adhoc Testing
- Risk Based Testing
- Exploratory Testing

White Box

- Data Coverage
- Code Coverage

Test Management

- Test Organization
- Test Strategy
- Test Plan
- Estimates
- Test Progress Monitoring and Control

Test CASES

- Objectives
- Structure of Test Case
- Sample Test Case

Risk Analysis

- Contingency and Migration

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

AUTOMATION TESTING

Selenium (IDE + Web Driver)

- Introducing Selenium IDE
- IDE Features
- Understanding Log Pane

- Recording, Running, Debugging Scripts
- Verification and Assertions
- Panes (Test Case / Log etc)
- Capturing Screenshots in Selenium
- Selenium Web Driver Architecture
- First Selenium Code
- Firefox Profile
- Fire path n Firebug in Mozilla
- Inspecting elements in Mozilla
- Various Locator strategies
- Web Driver Interface
- Web Element Interface
- Finding XPath to Identify
- Absolute and Complete XPath
- Handling Drop-Down List
- Managing Radio buttons and Checkboxes
- Implicit and Explicit Waits

SQL Queries

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

Linux commands

- Linux commands
- File commands
- Directory commands