

Manual Testing Course coverage

- Understanding of Software Development Process (A real time scenario)
- Models/Approaches used for SDLC – Waterfall model, Spiral model, Prototype Model, 'V' Model, Agile Model
- Concept of Quality, Quality Assurance and Quality Control
- Fundamental Principles of Software Testing
- Testing Techniques – White Box, Black Box, grey Box
- Testing Phases – Unit Testing, Integration Testing, System Testing, Acceptance Testing
- Testing Types – Sanity, Usability, Functionality, Non-functional, Security, Regression
- Software Testing Life Cycle
- Software Environment
- Testing Documents/Artifacts/Deliverables
- Test Planning
- Authoring effective test cases and its principles
- Testing Techniques
- Test case preparation
- Test data creation and Test Execution
- Understanding the concept of Bug severity and Priority
- Bug Tracking Reporting process
- Defect/Bug Life cycle
- Software matrix- bug density, requirement traceability matrix etc.

Test Automation Course coverage

- Automation Testing Workflow
- Manual Vs Automation
- Advantage & Drawbacks
- Real implementation of Automation
- Automation Testing Tools
- About the Tool Quick Test Professional
- QTP interface & features of QTP
 - Different techniques to generate script
 - VB Script implementation for Test Script Construction
 - Function Procedures and Sub Procedures

Object Management in QTP

- Introduction to different types of objects
- Object Identification mechanism of QTP
- Get properties values of test objects and runtime objects
- Different types of object Repository
- Object Spy
- Object Repository Manager

Unit test case validation

- Check point and output values
- Get and set object properties
- Test Synchronization

Test Parameterization

- Different Types of Parameterization
- Action Parameterization
- Data table parameterization
- Flat File parameterization
- XML file parameterization
- Random Number parameterization
- Parameterization through dynamic value passing

Debugging the Test with Step Command

Handling Runtime Error (VB Script mechanism & Recovery Scenarios)

Dynamic Object Handling

Automation Framework

- Linear Framework
- Modular Framework
- Data driven Framework
- Keyword-driven Framework

*Course duration 30 working days (2 hours session each)