

Testing Tools Course Content

Unit1: Software Testing Basics and Terminology

- Manual Testing
- Creating and Executing Test Cases using JIRA
- Automation Testing
- Creating and Executing Scripts using QTP & UFT
- Projects

Unit2: Manual Testing

SDLC Phases

SDLC Models:

- Waterfall model
- Prototype model
- Iterative model
- V model

STLC Phases

Unit3: Types of Testing

1. White Box Testing
 - Unit Testing
 - Integration Testing
 - Top Down Approach
 - Bottom Up Approach
 - Hybrid Approach
2. Black Box Testing
 - System Testing
 - Non-functional Testing
 - Functional Testing
 - Performance Testing
 - Regression testing
 - Acceptance Testing
 - Alpha testing
 - Beta Testing
3. Gray Box Testing

Levels of Test Execution:

1. Level 0
 2. Level 1
 3. Level2
- Analyzing FRS Document
 - Designing Test Cases
 - Executing Test Cases
 - Defect Reporting and Tracking
 - Defect Categorization
 - Defect life cycle
 - Defect fixing
 - Test closure
 - Manual Testing Vs Automation Testing

Unit4: Create the Test Plan

- Prerequisites to test planning
- Understand the Characteristics of the Software Being Developed
- Build the Test Plan
- Write the Test Plan
- Test Cases:
- Test case Design
- Building test cases
- Test data mining
- Test execution
- Test Reporting
- Defect Management
- Test Coverage – Traceability matrix

Unit5: Automation Testing Basics

- Basics of automation testing – why, when and how to perform automation testing
- Factors for choosing a particular tool
- An overview for the major functional testing tools
- Overview of Test management and bug tracking tools
- Introduction to Automation Testing
- Advantages of Automation Testing
- Introduction to QTP
- Object Repository
- Types of Objects in QTP
- Types of Object Repositories
- Operations on Object Repositories
- Object spy
- View options
- Object identification
- Methods of generating Script
- Scripting vs programming
- VB Script introduction
- VB Script variables
- VB Script Constants
- VB Script functions
- VB Script Data Types
- VB Script Operators
- Flow control in VB Script (conditional statements and loops)
- Methods in VB Script
- VB Script Objects
- Actions
- Array Basics