

Manual Testing

40 Hr.

Introduction to Software Applications

- What is Software Application
- Types of Software Applications
- Components of Software
- One Tier Architecture/Two Tier Architecture/Three Tier Architecture /Multi Tier Architecture
- Application Domains
- Application Models

Software Development Life Cycle

- Phases of SDLC in detail
- Project Team Organization Structure
- Test Team Roles & Responsibilities
- Various Application Issues
- Waterfall Model
- Iterative Model
- Prototyping Model
- Incremental Model
- Spiral Model
- 'V' model in detail
 - Verification Techniques
 - Reviews
 - Inspections
 - Walkthrough
 - Verification
 - Validation
 - QA
 - QC
 - Static Testing
 - Dynamic Testing
- Agile Model in details
 - Agile vs Traditional Models
 - Sprint Planning
 - Scrum
 - Sprint Review
 - Sprint Retrospective
 - Story Point
 - Scrum Master Roles & Responsibility
 - Product Owner Roles & Responsibility

- Agile Processes

Introduction to Software Testing

- What is Software Testing?
- Testing Methodologies
 - Black Box Testing
 - Advantages & Disadvantages
 - White Box Testing
 - Statement Coverage
 - Decision Coverage
 - Gray Box Testing
- Levels of Testing
 - Unit Testing
 - Integration Testing
 - System Testing
 - User Acceptance Testing

Types of Non Functional Tests

- User Interface Testing
- Usability Testing
- Localization Testing
- Internationalization testing
- Accessibility Testing
- Performance Testing
- Load Testing
- Endurance Testing
- Stress Testing
- Configuration Testing
- Compatibility Testing
- Installation Testing
- Security Testing

Software Testing Life Cycle

- Requirements Analysis
- Test Planning
- Test Design
- Test Execution
- Test Closure

Test Design

- Test Scenarios
 - Creating Test Scenarios from Use Case Diagram
- Test Cases
 - Creation from Test Scenarios
 - Test CaseTemplate
 - Test Case Review
- Requirement Traceability Matrix
- Test Case Management Tool
- Test Data
- Test Data Creation Techniques
 - Boundary Value Analysis
 - Equivalence Class Partitioning
 - Error guessing
 - Decision Table
 - State Transition Testing
- Negative Testing
- Best Practices of Test Design
- Hands on Test Case design Practice for various topics i.e ATM, Lift, Login, Registration, Image Upload, DOB....

Test Execution

- Test Environment Setup
- Smoke / SanityTesting
- Test Case Selection for Execution
- Running Test Cases
- Logging Defects
- Retesting and Regression
- Challenges in Test Execution
- Test Closure Report

Defect Management & Bug Lifecycle

- What is aDefect?
- Why do bugsoccur?
- Defect Reporting
- Defect Report Template
- Defect Severity & Levels
- Defect Priority & Levels
- Defect Life Cycle
- Defect Prevention

Defect Tracking Tools – Jira

- Project Implementation in Jira Software and bug tracking hands on experience

- **Overview of Test Management Tool – Test Manager or Quality Center**
- **Basic SQL Query**
- **Basic of Linux Query**
- **Mock Interview Preparation**
- **ISTQB Sample Papers**

ASKME TRAINING