

## Software Manual Testing

### **First level:-**

#### Session-1

- Software Application Types(Windows & Web)
- Different OS(Desktop and Mobile)
- Introduction Software Industry
- What is Server and types of Servers
- What is browser
- What is cloud

#### Session-2

- What is Software Testing
- Verification & Validation
- Static and Dynamic Testing
- BRS,SRS & FRS
- QA & QC
- Static Testing Types

#### Session-3

- Levels of Dynamic Testing
- Stubs & Drivers
- Top-Down Approach and Bottom-Up Approach
- System Testing Types

#### Session-4

- SDLC-Software Development Life Cycle
- STLC-Software Testing Life Cycle
- Bug Life Cycle
- What is Mistake, Error, Defect, Bug, Fault & Failure

#### Session-5

- Testing Box approaches
- Black Box Testing Techniques-BVA, Equivalence Partitioning, Error Guessing, All Pair & Decision table

#### Session-6

- White Box Testing Techniques
- Severity & Priority

#### Session-7

- Software Development Models

- Waterfall model
- V model
- Spiral model
- Defect triage, Bug release, Bug leakage, Test harness & Test Bed

#### Session-8

- Introduction Agile
- Agile Methods-Scrum, TDD, Extreme programming, Rapid programming

#### Session-9

- Usability Testing
- Usability Testing Methods
- Usability Testing Approaches
- Cache, Cookies and Session

#### Session-10

- API & Web Services
- REST & SOAP
- Different HTTP verbs

#### Session-11

- Security Testing
- Basic Security Testing Techniques

#### Session-12

- Requirement Traceability Matrices
- Client side and Server side validation
- Testing Deliverables-Test Plan, TCs, Bug Report, Sign Off & RTM

### **Second level:**

#### Session-13

- BRS,SRS & FRS overview
- Test plan overview
- TCs overview

#### Session-14

- Validation Library overview
- TCs creation strategies-Field and Flow
- TCs creation

#### Session-15

- Broken links verification
- GUI TCs creation and assignment
- Spell verification, Responsive testing
- Developer tool to review the element property

## Session-16

- JIRA overview
- User story creation, TCs creation, Bug reporting in JIRA

## Session-17

- Bugzilla-Bug tracking tool
- Mantis-Bug tracking tool

## Session-18

- API Testing-Postman
- Download and setup Postman
- Workspace creation
- Collection creation
- Adding TCs in postman
- Implement assertions in Postman

## Session-19

- Environment creation in Postman
- Handle Dynamic Ids in Postman
- Run Collection in Runner Console
- Export report
- Sharing cURL, Collection and Collection link

## Session-20

- Secure Transmission
- Authentication
- Authorization
- Data validation(ZAP)

## **Third level:**

## Session-21

Practical on live project and Viva

## Session-22

Practical on live project and Interview preparation

Session-23

Practical on live project and Interview preparation

Session-24

Practical on live project and Interview preparation

Session-25

Practical on live project and Interview preparation

Session-26

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Session-30

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