

Software Testing Course Syllabus

Introduction to Testing:

- Introduction to Software Testing
- Objectives/Purpose of Software Testing
- Project **Vs.** Product
- Difference b/w Windows(**.EXE**) & Web Application Testing (**URL**)

Software Development Life Cycle (SDLC):

- Introduction to SDLC
- SDLC Models and in detail discussion on each model
 - Waterfall Model -20% -
 - V-Model-50% -
 - Agile Model – 99%-
- How to choose which model is best suited for your project

Stages of STLC (Software Testing life cycle):

- Requirement Analysis
- Test planning
- Test design
- Test Environment Setup
- Test execution
- Test Reporting

Levels of Testing in details and who is responsible for each type testing:

- Unit Testing
- Integration Testing
- System Testing
- UAT Testing

Software Testing Methods:

- Black Box Testing(Testers)
- White Box Testing(Developers)

Types of Testing:

- Regression Testing©
- Ad-hoc Testing(random)
- Smoke Testing©
- Sanity Testing©
- Usability Testing(separate team)
- Exploratory Testing(random)
- Compatibility Testing(separate team, one time checking)
- Installation Testing(one time)

Test Case Design and Templates:

- Test scenario template
- Test case template
- How to write test cases
- Test plan
- Status report

Types of Test Review:

- Review Test Case
- Walkthroughs
- Inspection

- Peer Review

Defect Reporting:

- Difference between Error, bug, defect and failure
- Defect report
- Defect life cycle
- Priority & Severity

User Acceptance Testing:

- Alpha Testing
- Beta Testing

Test reporting:

- Test metrics
- Traceability Matrix
- Criteria for Test Closure

Incident Management Tool/Project Management Tool: Jira (Show you Real-time project)

- Design test case – **Issue type //tester**
- Create new Story// BA//Manager//Product owner
- Create New improvement-// **BA**
- Create new Technical debt(TD)-//**BA**
- Create new Bug/defect/issue-// **Tester**
- Assign defect/Bug/Story/Improvement-// depends// manager will assign
- Workflow of the QA Bug/Story/improvement/product Bug

Non-Functional Testing:

- Load Testing
- Stress Testing
- Volume Testing

- Database Testing
- Functional testing vs. non-functional testing...etc.