→ Advantages Of Agile.

1 We can save time and cost of the project.

2 The requirement changes can be accepted at any level of project.

3 The quality can be ensured because each and every sprint will be tested.

→ STLC : SOFTWARE TESTING LIFE CYCLE.

* STLC is a part of SDLC

* STLC Part will start when

1 The requirement documents are available

2 The complete understanding of the application flow is done.

3 Test plan document is ready.

* STLC PHASES

1 Requirement analysis

2 Test planning

3 Test case development

4 Environment setup

5 Test execution

6 Test cycle closure

1 REQUIREMENT ANALYSIS

In this phase tester will understand, the requirements of project by refering different types of documents.

2 TEST PLANNING :

Test planning mainly focuses on what to test, How to test and when to test.

→ For this input documents are project planning document and functional requirement document.

→ Activities involved in this phase are

(a) Team formation

(b) Test estimation

(c) Preparation of test plan.

(d) Reviews on test plan.

→ Main roles in test planning are Team Lead (70%) and test manager (30%)

→ Outcome of this phase is test plan document.

* TEST PLAN DOCUMENT

→ It is a document that describes the objectives, scope, approach and focus of a software testing effort.

→ It is developed by test lead or test manager.

→ Contents of test plan documents are.

1. Introduction.
2. Scope of project
3. Features to be testing
4. Features not to be tested
5. Test strategy
6. Test environment
7. Entry criteria
8. Exit criteria
9. Release Deliverables
10. Resource details
11. Training Requirement
12. Risks etc.

3. TEST CASE DEVELOPMENT / TEST DESIGN

* Input documents for this phase are project plan document, FRD, Test plan, design document and use case documents.

→ Activities involved in this phase are

i) Preparation of test scenarios

ii Preparation of test cases

iii) Reviews on test cases

iv Traceability matrix.

* Main role in this phase are test engineer (70%) and test lead (30%)

* Outcome of this phase is test case document and tracebability matrix.

4 ENVIRONMENT SETUP

* It is combination of hardware and software environment on which the test ~~eas~~ will be executed.

* Practically the QA team can not start actual work without having the right environment to test.

5 TEST EXECUTION :

* Inputs for this phase is FSD, test plan, test cases and build for development team.

* Activities involved in this phase are,

i) Executing test cases

ii Preparation of test report

iii Identifying defects.

→ Defect reporting and tracking

* It is a part of test execution

* In this phase the defect found will be assigned to developer and after fixing we retest it.

* Activities involved in this phase are

i) Preparation of defect report.

ii Reporting defects to developer

iii Tracking the defect

** Outcome of this phase is Defect report.

6 TEST CYCLE CLOSURE

* Inputs to this phase are test reports and defect reports

* Activities Involved in this phase are.

i Analyzing test reports

ii Analyzing the bug reports

iii Evaluating exit criteria : Based on criteria we need to take decision that do we want to continue or stop.

* Main roles are Team Lead (90%) and tester (30%