

Test Environment Setup

- **Test Environment Setup** decides the software and hardware conditions under which a work product is tested.

- It is one of the critical aspects of the testing process and can be done in parallel with the Test Case Development Phase.

- Test team may not be involved in this activity if the development team provides the test environment.

- The test team is required to do a readiness check (smoke testing) of the given environment.

- **Activities in Requirement Phase Testing**

- ✓ Understand the required architecture, environment set-up and prepare hardware and software requirement list for the Test Environment.

- Setup test Environment and test data

- Perform smoke test on the build

- **Deliverables of Requirement Phase Testing**

- Environment ready with test data set up

- Smoke Test Results.

Test Execution

- **Test Execution Phase** is carried out by the testers in which testing of the software build is done based on test plans and test cases prepared.

- The process consists of test script execution, test script maintenance and bug reporting.

- If bugs are reported then it is reverted back to development team for correction and retesting will be performed.

- **Activities in Requirement Phase Testing**

- Execute tests as per plan

- Document test results, and log defects for failed cases

- Map defects to test cases in RTM

- Retest the Defect fixes

- Track the defects to closure

- **Deliverables of Requirement Phase Testing**

- Completed RTM with the execution status

- Test cases updated with results

- Defect reports

Test Cycle Closure

- **Test Cycle Closure** phase is completion of test execution which involves several activities like test completion reporting, collection of test completion matrices and test results.

- Testing team members meet, discuss and analyze testing artifacts to identify strategies that have to be implemented in future, taking lessons from current test cycle.

- The idea is to remove process bottlenecks for future test cycles.

- **Activities in Requirement Phase Testing**

- Evaluate cycle completion criteria based on Time, Test coverage, Cost, Software, Critical Business Objectives, Quality

- Prepare test metrics based on the above parameters.

- Document the learning out of the project

- Prepare Test closure report

- **Deliverables of Requirement Phase Testing**

- Test Closure report

- Test metrics