**Summaryof STLC Phases along with Entry and Exit Criteria**

| **STLC Stage** | **Entry Criteria** | **Activity** | **Exit Criteria** | **Deliverables** |
| --- | --- | --- | --- | --- |
| **1. Requirement Analysis** | Requirements Document available (both functional and non functional)  Acceptance criteria defined.  Application architectural document available. | Analyse business functionality to know the business modules and module specific functionalities.  Identify all transactions in the modules.  Identify all the user profiles.  Gather user interface/ authentication, geographic spread requirements.  Identify types of tests to be performed.  Gather details about testing priorities and focus.  Prepare Requirement[Traceability Matrix](https://www.guru99.com/traceability-matrix.html)(RTM).  Identify test environment details where testing is supposed to be carried out.  Automation feasibility analysis (if required). | Signed off RTM  Test automation feasibility report signed off by the client | RTM  Automation feasibility report (if applicable) |
| **2. Test Planning** | Requirements Documents  Requirement Traceability matrix.  Test automation feasibility document. | Analyze various testing approaches available  Finalize on the best suited approach  Preparation of test plan/strategy document for various types of testing  Test tool selection  Test effort estimation  Resource planning and determining roles and responsibilities. | Approved test plan/strategy document.  Effort estimation document signed off. | Test plan/strategy document.  Effort estimation document. |
| **3. Test case development** | Requirements Documents  RTM and test plan  Automation analysis report | Create test cases, test design, automation scripts (where applicable)  Review and baseline test cases and scripts  Create test data | Reviewed and signed test Cases/scripts  Reviewed and signed test data | Test cases/scripts  Test data |
| **4. Test Environment setup** | System Design and architecture documents are available  Environment set-up plan is available | Understand the required architecture, environment set-up  Prepare hardware and software development requirement list  Finalize connectivity requirements  Prepare environment setup checklist  Setup test Environment and test data  Perform smoke test on the build  Accept/reject the build depending on smoke test result | Environment setup is working as per the plan and checklist  Test data setup is complete  Smoke test is successful | Environment ready with test data set up  Smoke Test Results. |
| **5. Test Execution** | Baselined RTM,[Test Plan](https://www.guru99.com/what-everybody-ought-to-know-about-test-planing.html), Test case/scripts are available  Test environment is ready  Test data set up is done  Unit/Integration test report for the build to be tested is available | Execute tests as per plan  Document test results, and log defects for failed cases  Update test plans/test cases, if necessary  Map defects to test cases in RTM  Retest the defect fixes  [Regression Testing](https://www.guru99.com/regression-testing.html) of application  Track the defects to closure | All tests planned are executed  Defects logged and tracked to closure | Completed RTM with execution status  Test cases updated with results  Defect reports |
| **6. Test Cycle closure** | Testing has been completed  Test results are available  Defect logs are available | Evaluate cycle completion criteria based on - Time,[Test coverage](https://www.guru99.com/test-coverage-in-software-testing.html), Cost , Software Quality , Critical Business Objectives  Prepare test metrics based on the above parameters.  Document the learning out of the project  Prepare Test closure report  Qualitative and quantitative reporting of quality of the work product to the customer.  Test result analysis to find out the defect distribution by type and severity | Test Closure report signed off by client | Test Closure report  Test metrics |