STLC Overview:

--> Software Testing Life Cycle (STLC) is defined as a sequence of activities conducted to perform Software Testing.
--> Each of these stages have a definite Entry and Exit criteria;

Entry Criteria:

Entry Criteria gives the prerequisite items that must be completed before testing can begin.

Exit Criteria:

Exit Criteria defines the items that must be completed before testing can be concluded.

Phases of STLC:

1.Requirement Analysis
2.Test Planning
3.Test Design
4.Test execution
5.Sign Off

1.Requirement Analysis:

Entry Criteria: Contracts, BR Document

--> Understanding the requirements
--> Clarification of doubts in query logs through walkthrough session
--> Identify types of tests to be performed
--> Get application access

Exit Criteria: Finalized scope.

2.Test Planning:

Entry Criteria: Finalized scope

--> Preparation of test plan document for various types of testing
--> Test tool selection
--> Resource planning

Exit Criteria: Test Plan.

3.Test Design:

Entry Criteria: Test Plan

--> Create test scenarios, test cases, automation script, RTM(Requiremnet Tracability Matrix)
--> Create test data
--> Review test cases with peer or lead
--> Get Approval

Exit Criteria: Test Scenarios, Test Case, Test Data, RTM.

4.Test Execution:

Entry Criteria: Test Scenarios, Test Case, Test Data, RTM

--> Execute tests as per plan
--> Document test results, and log defects for failed cases
--> Track the defects to closure
--> Retest the Defect fixes

Exit Criteria: Execution Result, Defect Log.

5.Sign Off:

Entry Criteria: Execution Result, Defect Log

--> Evaluate cycle completion
--> Prepare Test closure report
--> Test result analysis

Exit Criteria: Closure Document.