

STLC

The Software Testing Life Cycle (STLC) is a sequence of specific activities conducted during the testing process to ensure software quality. It involves both verification and validation activities. Here's a high-level overview of the STLC phases:

1. Requirement Analysis

Activities: Understanding and analyzing the requirements to identify testable requirements.

Deliverables: Requirement Traceability Matrix (RTM), Automation feasibility report (if applicable).

2. Test Planning

Activities: Defining the scope, objectives, and approach for testing. Estimating effort and resources needed.

Deliverables: Test Plan document, effort estimation, tool selection, and resource planning.

3. Test Case Development

Activities: Designing detailed test cases and preparing test data.

Deliverables: Test cases, test scripts (for automation), and test data.

4. Test Environment Setup

Activities: Setting up the testing environment and preparing the necessary hardware and software.

Deliverables: Test environment ready, smoke test results.

5. Test Execution

Activities: Executing test cases and recording the results. Reporting and logging defects.

Deliverables: Test execution results, defect logs.

6. Test Cycle Closure

Activities: Evaluating the test cycle completion criteria and preparing test metrics. Documenting the learning and best practices.

Deliverables: Test summary report, metrics, closure report, lessons learned.