**SDLC vs STLC**

**SDLC (Software Development Life Cycle)**  
A step-by-step process followed by development teams to ensure successful software delivery.

**STLC (Software Testing Life Cycle)**  
A step-by-step process followed by QA teams to ensure the software is tested thoroughly before release.

**Key Differences -**

| **Feature** | **SDLC** | **STLC** |
| --- | --- | --- |
| Starts With | Requirement Gathering | Requirement Analysis |
| Ends With | Maintenance | Test Closure |
| Focus | Developing software | Validating software quality |
| Output | Functional product | Quality test reports & defect logs |
| Participants | Developers, BAs, PMs | QA Engineers, Test Leads |

**SDLC STLC**

1. Requirement Gathering <-------> 1. Requirement Analysis

2. System Design <-------> 2. Test Planning

3. Implementation <-------> 3. Test Case Design

4. Integration & Testing <-------> 4. Test Environment Setup

5. Deployment <-------> 5. Test Execution

6. Maintenance <-------> 6. Test Closure

**QA’s Involvement in STLC:**

* Participates in requirement review
* Creates test plan and strategy
* Designs test cases
* Sets up environment
* Executes tests and logs bugs
* Participates in closure meetings