**STLC**

STLC # SOFTWARE TESTING LIFE CYCLE

·       STLC are the sequence of steps done to achieve a testing process so that we can deliver a software to the client of good quality.

·       It involves verifying and validating the process of ST

**STLC Phases**

1. Analysis

2. Planning

3. Test case development

4. Test environment setup

5. Execution

6. Reporting

7. Closure

·       Deliverable have entry and exit criteria

·       Entry criteria are the mandatory things which are needed before the Software Testing.

·       Exit criteria

**Requirement analysis**

·   Case study on the project is done by the team

·   Team looks for the requisites

·   It looks whether automation is required for ST or not

·   You have to create a RTM (Req. Trackability Matrix)

·   Feasibility study report

**Test Planning**

·       Prepare plan

·       Cost estimation

·       Risk analysis

·       Roles and responsibilities

·       Training to the client

**Test Case Development Phase**

·       Create test case scripts

·       Create test case data

**Test Environment Setup**

·       You make the software setup

·       Setup the test data

·       Do some fake test / smoke test on the application

·       Deliver the test case report to the client/company

**Execution Phase**

·       Tester tests the application based on test scripts, data on the software.

·       If there is any bug it will be reported to the development team for rectification

·       When the bug is being removed the app will be tested again for the same bug

·       If there is no bug then it will be released for the public.

·       Make a report for the bugs and its probable remedies.

**Project Closure Phase**

·       Complete documentation of the project is being done

·       Qualitative and Quantitative analysis is being done on it.

**RISK ANALYSIS**

* Identify the risk
* Analyze the risk
* Put priority on the risk
* Treat the risk
* Monitor the risk
* Report the risk and its management in a document

**SDLC**

SDLC # Software Development Life Cycle

* SDLC is a process that a company takes to develop a software.
* It comprises of many phases to complete it.
* It is a part of Project Management
* And compulsory for any software developer to know it by heart.

**SDLC Phases**

1. Planning
2. Defining the project
3. Designing the project
4. Project execution
5. Software testing
6. Deployment
7. Project closure

**Planning Phase**

* You create a project plan with the client’s details.
* Discussion
* A project deal between client and company is sealed
* Requirements are being dealt with by the team. It is an internal discussion happening.

**Defining Phase**

* Set goals
* Set the timeline
* Set the timeframe
* Set the cost
* Analyze the risk
* SRS - Software Requirement Specifications document

**Designing phase**

* What is the software architecture to be used
* DDS (Document Design Specification) document
* DDS document is being read by all the stakeholders.
* Based on DDS they give their inputs

**Project Execution**

* Software is being developed based on SRS and DDS

**Testing Phase**

* The entire STLC is being implemented

**Deployment Phase**

* You train the client
* Then you deploy it on the cloud/server

**Project Closure Phase**

* Full document given to the client
* Company receives the cheque
* A corporate party on the successful completion of Project

**AGILE METHODOLOGY**

* If you complete your project in one go and then you give to the client for his/her approval it is called WATERFALL Methodology

* If you devise your project into small phases and make client part of everything and you continuously develop and improve your software then it is an AGILE Methodology.

* The client is also part of your team
* The client responds to everything and he/she know everything what is going inside the project.