STLC PHASES CHECKLIST

RARECREW

1 REQUIREMENT ANALYSIS

- [ ] Analyze business functionality to understand business modules and module-specific functionalities
- [ ] Identify all transactions in the modules
- [ ] Identify all user profiles
- [ ] Gather user interface/authentication and geographic spread requirements
- [ ] Identify types of tests to be performed
- [ ] Gather details about testing priorities and focus
- [ ] Prepare Requirement Traceability Matrix (RTM)
- [ ] Identify test environment details
- [ ] Analyze feasibility of automation (if applicable)

2 TEST PLANNING

- [ ] Analyze available testing approaches
- [ ] Decide on best approach
- [ ] Prepare test plan/strategy document for different test types
- [ ] Select test tools
- [ ] Estimate test effort
- [ ] Plan resources and determine roles and responsibilities

3 TEST CASE DEVELOPMENT

- [ ] Create test cases, test design and automation scripts (if applicable)
- [ ] Review test cases and scripts
- [ ] Create test data

4 TEST ENVIRONMENT SETUP

- [ ] Understand required architecture and environment setup
- [ ] Prepare hardware and software development requirement list
- [ ] Finalize connectivity requirements
- [ ] Prepare environment setup checklist
- [ ] Set up test environment and test data
- [ ] Perform smoke test on the build
- [ ] Accept/reject the build depending on smoke test result

5 TEST EXECUTION

- [ ] Execute tests according to 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 defect fixes
- [ ] Perform regression testing
- [ ] Track defects to closure

6 TEST CYCLE CLOSURE

- [ ] Evaluate cycle completion criteria based on time, test coverage, cost, software quality, critical business objectives
- [ ] Prepare test metrics based on above parameters
- [ ] Document learning from the project
- [ ] Prepare test closure report
- [ ] Report qualitative and quantitative results of quality of product to customer
- [ ] Analyze test results to find out the defect distribution by type and severity