**Software Testing Checklist**  
  
 I) Software Development Life Cycle  
 II) Software Test Levels  
 III) Software Test Types  
 IV) Software Test Design Techniques  
 V) Software Test Process / Software Test Life Cycle  
 VI) Maintenance Testing  
 VII) Software Quality Standards  
  
**I) Software Development Life Cycle**  
 1) Requirements Gathering  
 2) Analysis & Planning  
 3) Software Design (High Level & Low Level)  
 4) Coding or Implementation  
 5) Testing  
 6) Release & Maintenance  
  
**II) Software Test Levels**  
 1) Unit Testing / Component Testing  
 2) Integration Testing  
 3) System Testing  
 4) Acceptance Testing  
  
**III) Software Test Types**  
 **1) Functional Testing**

**2) Non-functional Testing**

i) Performance Testing  
 ii) Usability Testing  
 iii) Reliability Testing  
 iv) Compatibility Testing  
 v) Maintainability Testing  
 vi) Portability Testing  
 vii) Compliance Testing  
 viii) Recovery Testing  
 ix) Internationalization Testing and Localization Testing  
 Etc...

**3) Structural Testing  
4) Change related Testing**  
**IV) Software Test Design Techniques**  
  
 **1) Static Test Design Techniques**  
 i) Reviews (Manual Examination)  
 ii) Static Analysis (Automated Analysis)  
  
 **2) Dynamic Test Design Techniques**

**i) White box Test Techniques**  
 1) Statement Coverage  
 2) Branch Coverage  
 3) Path Coverage  
 4) Decision Coverage.  
 Etc...  
  
 **ii) Black box Test Techniques**  
 1) Equivalence Partitioning  
 2) Boundary Value Analysis  
 3) Decision Table Testing  
 4) State transition Testing  
 5) Use Case Testing  
 Etc...  
  
 **iii) Experience based Test Techniques**  
 1) Error Guessing  
 2) Exploratory Testing  
 Etc...  
  
**V) Software Test Process / Software Test Life Cycle**

1) Test Planning  
 2) Test Design  
 3) Test Execution  
 4) Test Closure

1) Test Planning  
 i) Understanding and Analyzing Test Requirements  
 ii) Risk Analysis  
 iii) Test Strategy Implementation  
 iv) Test Estimations (Scope, Time, Resources, Budget etc...)  
 v) Team Formation  
 vi) Test Plan Documentation  
 vii) Configuration Management Planning  
 viii) Traceability Matrix documentation  
 ix) Define Test Environment Setup

2) Test Design  
 i) Understanding Test Requirements  
 ii) Generate Test Scenarios  
 iii) Test Case Documentation  
 iv) Test Data Collection

3) Test Execution  
 i) Verify Test Environment Setup  
 ii) Create Test Batches  
 iii) Test Execution  
 Smoke Testing  
 Comprehensive Testing   
 Reporting Defects  
 Tracking Defects  
  Re & Regression Testing Cycle 1  
  Sanity Testing  
  Execute Regression Test Cases  
  Reporting Defects  
  Tracking Defects  
  Re & Regression Testing Cycle 2  
                Sanity Testing  
                Execute Regression Test Cases  
                Reporting Defects  
                Tracking Defects   
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 Final Regression

4) Test Closure  
 i) Evaluating Exit Criteria  
 ii) Collect all documents and prepare Test Summary Report  
 iii) Send Test deliverables to Customer.  
 iv) Improvement suggestions for future projects.

**VI) Software Test Documents**  
 **1) Test Policy  
 2) Test Strategy  
 3) Test Plan** i) Test Plan ID  
 ii) Introduction  
 iii) Test Items  
 iv) References  
 v) Features to be Tested  
 vi) Features not to be Tested  
 vii) Entry Criteria  
 viii) Exit Criteria  
 ix) Suspension Criteria  
 x) Roles & Responsibilities  
 xi) Schedule  
 xii) Training  
 xiii) Risks & Mitigations  
 xiv) Test Environment / Lab  
 xv) Test Deliverables  
 xvi) Approvals  
 xvii) Glossary  
**4) Test Case Document**  
 i) Test Case Id  
 ii) Test Case Name  
 iii) Test Suite ID  
 iv) Pre-Condition  
 v) Steps  
 vi) Post-Condition  
 vii) Expected Result  
 viii) Actual Results  
 ix) Test Results  
 x) Remarks  
**5) Requirements Traceability Matrix  
6) Test Data**

**7) Defect Report**  
 i) Defect Id  
 ii) Defect Description  
 iii) Test Case Id  
 iv) Tester  
 v) Product Version  
 vi) Build Version  
 vii) Priority  
 viii) Severity  
 ix) Status  
 x) Reproducible or not  
 xi) Reporting to  
 xii) Remarks   
  
 **8) Test Summary Report**

**VII) Software Quality Standards**  
 **1) ISO  
 2) IEEE  
 3) CMM/CMMI**