

Managing the Test Phases of the SDLC

Testing, QA, QC & IV&V can take ≥ 50% of the effort/to build, “enable & stable” a new system or ERP system. Short-cutting Testing is a major cause of failure. You can’t test everything – let risk point the way! Test your documentation. Test business-critical application software as much/more than custom software.

THE TEST WHEEL

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D. Quality Control & Assurance

- Internal/External Inspections
- Shared lessons learned
- Ready for Audit test
- IV&V
- Periodic Reviews
- Stage Gate Revs

C. Ongoing Testing & Tools Use

- Utilities
- Code coverage
- Code complexity
- Auto Test Suite
- Auto Regression Suite
 - Configuration Management
 - Library control & maintenance
 - Data Mgm’t Tools; CASE Tools
 - Auto Test Defect Mgm’t tools

5. OPERATIONS/ MAINTENANCE

- Enhancements
- Platform Upgrade
- New Releases
- Tune

4. SETTLING PERIOD

- Regression test suite
- Systems/Integration Tests
- Update Doc/ RTM
- Approve/Sign-off
- Put into Production thru

3. READINESS SIGNOFF/CUTOVER

- Alpha, Beta tests
- Org. Change Management (OCM) Testing
- Training Walkthru, Test, Eval, Rollout
- Blackout File Creation
- Help-desks/Expert Resources at sites
- Contractual tests (FAT; OSIT; Ops/KPI; etc.)
- Pilot/Timed Rollout vs. Big Bang
- Dev, Test, User, Ops, Tech, Mgt manuals
 - Hi-quality Maintenance turnover pack
 - Demos, CRP, Retraining, Sandbox
 - Stage Gates; Sign-offs

1. BASIC BUILD TESTS

- White Box; Black Box
- Unit (w negative tests)
- String; Initial Integrations Tests
- Reused code
- Component; Conversion
- GUI; Navigation; Screens
- Interface; Integration
- Batch Testing
- Regression Testing
- Demos, Conference Room Pilot (CRP)
- Stage Gates/Sign-off

2. SYSTEMS TESTS THRU G-L READY

- Smoke Test
- Conversion test & audit
- Functional/End-to-End
- Error Messages/Recovery
- System Test
- Unusual Sequences
- Performance; Stress; Load
- Backup, R&R, Disaster Recovery
- UAT; Batch Testing; IV&V
- Regression Testing
- QA/QC; Stage-Gate signoff
- Regulatory tests

A. ‘-ility’

- Usability
- Maintainability
- Reliability
- Scalability
- Reusability
- Testability
- Portability
- Securability
- Survivability

B. Static Analyses

- Reviews; Inspections; Audits; Walkthroughs
- Requirements & RTM
- Architecture, Design, Code, Tests
- Documentation (all kinds)
- Training
- Standards Adherence
- Go-Live Readiness

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The TEST WHEEL – a Test Management Tool/Guide

Decide on #/levels/types of tests; Plan/manage/QA the tests; Ready the “test environments”; employ CM and automated tools; Assign test resources (incl. trained test specialists); All root causes discovered, fixed, QC reviewed/signed-off w needed Regression testing; Assure test coverage; Log & save tests.