

Your Company Name System Quality Assurance Checklist

Date



Revision History

Date	Version	Author	Change
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Version

Table of Contents

1 2		
3	B Testing	11
4 5	5 ,	
6	S Security	19
7 8	3	21
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Project Management (PM) 1

System Topics	Yes/No	Comments
Procedural Controls		
 Project planning organizational policy is available. 		
 Procedures available for establishing and reviewing project plans, commitments, complexity, costs, efforts, resources, facilities, personnel assignments. 		
 Procedures available for work breakdown. 		
Resources		
PM assigned.		
PM can negotiate work commitments.		
PM trained in project planning and estimating.	0	
Documented Activities		
 Project activities documented, e.g., statement of work, project plans, resource estimates, risk assessment, faculties, work breakdown structures, metrics, project status, control, management, and contract reviews, etc. 		
Tracking and Oversight		
 Policies exist to track project and oversight. 		
 Project uses procedures to track actual time, funding, costs, and QA results, work size and complexity, scope, corrective action, changes, commitments, agreements, plans, schedules, risk, and resources. 		



Methodology 2

System Topics	Yes/No	Comments
Software Methodology		
 Management has a formal methodology for software development projects and/or enhancement projects. 		
 Requirements used to establish software engineering and management. 		
 Allocated requirements change when adjustments are made to project plans, work products, and activities. 		
 Methodology allows for a formal and approved set of designs based on requirements. 		
Methodology supports construction based on approved design information.	2.	
Methodology supports integration of software elements into a working product.		
 Methodology ensures formal testing of software components at specific process phases. 		
 Methodology ensures release and support of the final product. 		
 Measurements are used to determine the status of the completed activities throughout projects. 		
 Guidelines, standards, and/or procedures are used for product enhancements and replacements. 		
 Release process for enhancements includes full documentation of new functions by updating operating manuals and release notes. 		
Application of Written Controls		
 Plans and methodology support the use of standards, procedures, and guidelines for: 	_	
 Defining software requirements. 	_	
 Designing and building software. 	_	
 Integration of software components. 		
 Testing of components and integrated product. 		



System Topics	Yes/No	Comments
 Release and product support. 		
 Projects follow a written organizational policy for project planning. 		
Projects follow a written organizational policy for managing requirements and design information.		
Technical Reviews During Development		
Plans and methodology ensure technical reviews for:		
o Requirements.		
o Designs.		
o Coding.		
 Product test plans and scripts. 		
 Analysis of test results. 		
 Review outcomes help support improvements to the software process. 	\$.	
Testing		
Planned testing activities include:		
 Unit testing. 		
 Integration testing. 		
 System testing. 		
 Release testing. 		
All test documents are approved prior to use.		
 Process exists that assures errors found during testing are corrected and re-tested. 		
 Test documents contain test cases with defined inputs, defined outputs, observed results, tester ID, and recorded errors. 		
Requirements Information		
 Information exists about reusable software products or components, which describes the functions and capabilities of the reusable entity. 		
Reusable entity information is used during the software process for new and evolving products.		
Design Information		
Design information exists on reusable software products or components.		



System Topics	Yes/No	Comments
Code Listing		
Existing code information on the reusable software conforms to established code management practices.		
Performance and Maintenance History		
 Performance and maintenance history records are available. 		
 Performance and maintenance records of reusable products are used to support the software process. 		
Purchased Software Products and Services		
 A formal organizational practice exists for selecting and managing product and service suppliers during the course of a project. 	C	
 Selection procedures include analysis of suppliers proven capabilities. 	5.	
 Practices require purchased product specifications and documentation be evaluated prior to purchase. 		
Compatibility with Bundled Product		
 Purchased components are tested to assess compatibility with the bundled package. 		
Virus Free Entity		
Evaluation practices for purchased products assure freedom from virus infection.		
Source Code		
Source listings conform to written standards for:		
 Header information 		
 File naming 		
 Program description 		
o Revision record		
o Coding style		
 Modularity 		
o Annotation		
 Variable definition 		
 Parameters for interaction. 		



System Topics	Yes/No	Comments
Hardware Methodology		
 A formal methodology, endorsed by management is used for all hardware development projects and/or enhancement projects. 		
 Methodology allows for approved requirements based on known processing needs. 		
 Requirements are used to establish a basis for hardware engineering and management use. 		
 Project plans, work products, and activities are modified when requirements change. 		
 Methodology requires formal and approved documentation. 		
 Methodology ensures a rigorous practice for hardware element integration into a working product. 	C	
 Methodology enforces a rigorous practice for testing hardware components at predetermined phases. 		
 Methodology enforces formal practices for release and support of the final hardware product. 		
 Measurements are used to determine the status of the activities performed for managing requirements and design information throughout projects. 		
 Hardware project plans document activities to be performed. 		
 Measurements are used to determine progress against planned activities. 		
 Adequate resources are provided for planning a hardware project. 		
Application of Written Controls		
 Plans and methodology enforce the use of standards, procedures, and guidelines for: 		
 Defining hardware specifications. 		
 Designing and building hardware. 		
 Integration of hardware components. 		
 Testing of components and integrated product. 		
 Release and support of product. 		



System Topics	Yes/No	Comments
 Installation procedures and testing diagnostics. 		
 Projects follow a written organizational policy for project planning. 		
 Projects follow a written organizational policy for managing hardware specifications and design information. 		
Technical Reviews		
Plans and methodology ensure technical reviews for:		
o Requirements.		
o Designs.		
 Drawings and specification analysis. 	~(
 Product test plans, scripts, and results. 	0	
 Engineering notebooks and logs. 	5.	
 Project managers review progress against planned activities. 		
Testing		
Planned testing activities include:		
 Integrated Committee testing. 		
 Functional hardware unit testing. 		
 Hardware release testing. 		
 Test documents are approved prior to use. 		
 Mechanism exists that assures errors found during testing are corrected and re-tested. 		
 Reviewed test results are used as a basis for release. 		
 Product errors found during testing are used as feedback for the improvement of hardware processes. 		
Purchased Hardware Products and Services		
 Selection procedures include analysis of suppliers proven capabilities. 		
 Practices require that purchased product specifications and documentation be evaluated prior to purchase. 		



System Topics		Comments
Compatibility with Bundle Product		
 Purchased components are tested to assess component compatibility with the bundled hardware. 		



Testing 3

System Topics	Yes/No	Comments
Procedural Controls		
Policies exist for the testing process.		
 Testing procedures describe: Test document development and its management. Testing types and levels required. Features and attributes. Test outcomes and acceptability. 		
 Procedures describe which organizational groups are responsible for: Testing. Reviewing results. Distribution of results. Maintenance of documentation. Release of products based on test results. How testing errors are recorded, tracked and resolved. Where and when to use approved tools for testing. How to manage testing information within a testing tool environment. How software tools used in the testing process are evaluated and selected. 		
Test Document and Structure		
 Testing documentation contains the following information: Document title. Document version. Accountability signatures. Test plans contain the following information: Identification of component to be tested. 		
Resource requirements.Schedules.Prerequisites for testing.		



System Topics	Yes/No	Comments
 Test documentation contain the following information: References to design and requirements documentation. Data and test equipment specifications. Test environment description. Features and attributes. Criteria for acceptance and release of test components. Finalized test cases contain the following information: Documented test cases with defined inputs, expected outputs, and actual outputs. Traceability of test cases to specifications. Error log. Actual results (not merely pass / fail) recorded where appropriate. Results summary. Analysis. Approval / release (before and after execution). 		
 Tester identification and date. Test tracking records contain the following incident information: Tracking identifier/number. Traceability to test case. Corrective action taken. Results of retest. Timing (dates) of all activities. Testing in the User Environment Organization performs pre-release testing in the user environment. 		
 Organizational prepared procedures describe how testing will be performed. 		
Instructions for documenting test activity and results.		
Organization corrected the product or informed customer of known product limitations.		



System Topics	Yes/No	Comments
Software		
Software development procedures exist for software testing activities.		
 Test documents exist for: Unit level testing. Integration level testing. System level testing. 		
Test cases are approved prior to testing.		
 Test cases are traceable to requirements and design specifications. 		_
 Testing results are used to adjust or correct functions or operations. 	~C	
 Procedures explain how corrected, enhanced, or modified software is tested for product feature effectiveness. 	S.	
 Regression testing is performed for enhancements and feature and function corrections. 		
 Original test documents and records are used for regression testing purposes. 		
Hardware		
 Hardware testing procedures are used for the following (where appropriate): 		
o Components.		
o Sub-units.		
 Fully assembled units or systems. 		
 Hardware compatibility testing procedures are used for bundled software products. 		
Product Maintenance		
 Procedures describe how repaired, enhanced or modified hardware is tested and its effectiveness. 		
 Original design documentation and test cases are used to support regression testing. 		
Periodic hardware tests are performed to assure that performance specifications are valid.		



Version

System Topics	Yes/No	Comments
User Manual		
User manuals are reviewed and tested for correctness prior to release and distribution.		



Configuration Management (Cm)

System Topics	Yes/No	Comments
General		
 Projects follow a written organizational policy for implementing configuration management. 		
 Configuration Management training is provided within the organization. 		
Planned and User Activities		
A configuration management plan exists and is used.		
 Resources and funding were allocated for CM planning and activities. 	c,	
CM Plans include activities for the following:	3	
o Identify CM items.		
 Base-line and version items. 		
 Control changes to items. 		
 Establish and manage repositories. 		
 Report status of items. 		
 Responsibility for coordinating and implementing configuration management exists. 		
 Training was provided for individuals configuration management activities, including objectives, procedures, and methods for performing their activities. 		
 Defined procedure for access privileges have been set and are used. 		
CM tools are used for CM implementation.		
CM tool users have been trained for their use.		
Glossary of Items		
Configuration items are defined.		
 A configuration management library repository exists for the work product baselines. 		
The repository is used to manage and control access to the CM items.		



System Topics	Yes/No	Comments
Change Management		
 Procedures exist for change requests and problem reports for configuration items/units initiated, recorded, reviewed, approved, and tracked. 		
 Methods exist to restore previous work items in case of problems. 		
Version Management		
 Procedures describe a methodology for establishing versions. 		
 Major releases. 		
 Maintenance releases. 		
 Individual hardware / software items. 		
o Custom work.	0	
 Version management procedures ensure traceability to documentation and records. 	12.	
Status of CM Items		
Status of configuration items and units are recorded.		
Configuration management report activities are communicated to respective groups and individuals.		
Status information is provided to management.		
Base audits are performed.		



Documentation and Records Management 5

System Topics	Yes/No	Comments
Control of Records		
Documents that Direct Work Activity		
 Policies and procedures are used to manage and maintain documentation. 		
 Review of procedures and policies are performed periodically. 		
 Responsibilities are defined for reviewing / approving new and/or revised documents. 		
 A notification / distribution process exists for newly approved documents. 		
 Outdated and superseded documents are removed from circulation and destroyed. 	12.	
 Procedures include mechanisms for version control of policies and procedures. 		
Technical Documentation		
 A procedure exists for managing technical documents associated with computer products and services. 		
Format and content standards exist for technical documents.		
 Procedures exist for review and approval of these documents. 		
 Procedures exist for making these documents available for use within the organization. 		
 Procedures exist for archiving and/or retention of these documents? 		
User Documentation		
 Procedures exist for management and control of manuals. 		
 Procedures exist to inform end users how to operate and use the computer products. 		
 Format and content standards exist for user documentation. 		



System Topics	Yes/No	Comments
 Procedures exist that define how users will be notified of manual changes. 		
 Procedures exist that define how user manual changes are to be kept in sync with product or system changes. 		
Supporting Records		
 Procedures exist that define how to manage and control supporting records, e.g., technical reviews, problem resolution, error logs. 		
 Procedures exist that define what supporting records need to be maintained. 		
A record retention schedules exists and is used.		
Electronic Documents and Records		
A policy exists for managing electronic records.	G.	
Procedures exist for managing electronic records:		
 Maintain audit trails. 		
 Sign electronic documents. 		
 Retention life of document. 		
 Record access and administration. 		



Security 6

System Topics	Yes/No	Comments
General		
Security Policies and Procedures		
A policy exists for the following security items:		
 Computer security goals. 		
 Use of passwords. 		
 Roles and responsibilities. 		
 Virus protection. 		
 Disaster recovery. 		
 Password procedures describe non-compliance consequences. 	S.	
 Responsibilities exist for implementing and administering security functions. 		
 Employees are trained in computer security policies and rules. 		
 Computer security administrators are trained to fulfill their functions. 		
Security Administration		
 Security measures are designed to mitigate unauthorized changes, theft, and threats. 		
Procedures exist to implement the following:		
 Logical and physical security. 		
 Establish and maintain access. 		
 Detect and report incidents. 		
 Compliance evaluation. 		
Security Tools		
 Security tools are evaluated relative to the security goals. 		
 Approved tools are periodically evaluated for suitability. 		
Tools are made available to the individuals administering security.		



Version

System Topics	Yes/No	Comments
Software Virus Program		
 Programs are available to prevent the introduction of viruses. 		
 Virus programs provide proactive detection and elimination. 		
Backup and Recovery		
 A program exists to backup mission critical work products, tools, and files. 		
 Procedures exist for periodic backup. 		
 Procedures provide for systematic recovery during a disaster. 		
The disaster recovery procedures have been tested.)
The disaster recovery procedures have been tested.		



Training and Education

System Topics	Yes/No	Comments
General		
Controls		
A training policy exists.		
Policies and procedures describe the following::		
 Job descriptions. 		
 Training requirements for each job description. 		
 Training and education to maintain and improve skills. 	S	
Training and Education Records		
 Organization maintains records of training and education. 		
Records are maintained and are up to date.		
 Management reviews records to ensure objectives. 		
Training and Education Plans		
 Employee training and education plans are maintained. 		
 Management reviews employee training plans. 		
 Training and education plans identify the skills required with a schedule to satisfy them. 		
Training and Education Responsibilities		
 Someone (or a group) is assigned responsibility for training and education. 		
Sufficient resources have been provided to carry out the training and education program.		



Maintenance 8

System Topics	Yes/No	Comments
General		
Procedural Controls		
 Procedures exist for product maintenance. 		
Procedures exist for:		
 Listing reported problems. 		
 Problem analysis. 		
 Problem resolution. 		
Support maintenance procedures exist for:) *
o Contracts.	9	
 Support escalation for mission critical applications. 	19.	
Reporting of known problems		
 Procedures exist to notify customers of known problems. 		
 Procedures exist to proactively provide notification for problems relating to: 		
 Data collection. 		
 Data processing. 		
 Display information. 		
 Computer security. 		
o Safety.		