

# Testing Controls

## Complete Area Mapping Guide

### Understanding Control Placement, Differentiation & Application

**Version:** 2.0 | **Date:** November 12, 2025

**Source:** SDAM Testing Standards & Quality Engineering Practice Framework

**Coverage:** All 11 Testing Areas | 21 Control IDs (PRC.TS.01 - PRC.TS.21)

## Document Structure

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## 1. Document Overview & Purpose

This comprehensive guide provides complete documentation for all Testing Controls, mapping them to specific testing areas with clear guidance on control placement, differentiation, and application. The document serves as the authoritative reference for understanding which control belongs to which area, why it's structured that way, and how to apply it correctly in your projects.

### Key Objectives:

- ✓ Eliminate confusion about which control to use and when
- ✓ Ensure consistent testing governance across all projects
- ✓ Enable faster audit preparation and compliance verification
- ✓ Provide clear accountability and role assignment
- ✓ Standardize documentation storage and retrieval
- ✓ Support risk-based control application

### Document Structure:

**PRIMARY AREAS (1-3):** Foundation planning controls that follow strict Review → Approval pattern. These MUST happen before work begins and establish WHAT, HOW, and WHEN to test.

**ADDITIONAL AREAS (4-11):** Execution, management, and special case controls that happen DURING work. These cover actual testing activities, environment setup, defect management, and security concerns.

## 2. Control ID Logic & Pattern Understanding

Control ID Structure: PRC.TS.XX

Component	Meaning	Example	Significance
PRC	Process Control	PRC.TS.01	Indicates this is a process-level control
TS	Testing Standard	PRC.TS.01	Specific to testing domain controls
XX	Sequential Number	01, 02, 03...21	Follows testing lifecycle sequence

### ■ THE CRITICAL PATTERN: Odd vs Even Number Logic

Aspect	ODD Numbers (01, 03, 05, 07...)	EVEN Numbers (02, 04, 06, 08...)
Control Type	NON-KEY Control	KEY Control
Purpose	Independent Review & Feedback	Formal Approval & Execution
Authority	SDLC Governance & Quality Management (G&QM) Team	Project Sponsors, App/Product Owners, Testing Teams
When Applied	For Escalated Major Events (High Risk Projects)	Always Applied (All Projects)

Action	Review, provide feedback, return for corrections	Approve or reject, make decisions, execute activities
Repository	SDLC G&QM SharePoint	Azure DevOps (ADO) / ServiceNow TMM
Examples	PRC.TS.01, 03, 05, 07, 12, 14, 16	PRC.TS.02, 04, 06, 08, 09, 10, 11, 13, 15, 17
Memory Trick	"Odd One Out" = Review (someone checking)	"Even Stevens" = Approval (moving forward)

**■ IMPORTANT:** In Primary Areas (1-3), controls come in pairs: Odd# for G&QM; review + Even# for formal approval. This Review → Approval sequence ensures proper governance before proceeding to the next phase.

### 3. PRIMARY TESTING AREAS (1-3): Planning Foundation

These are the FOUNDATION controls that establish the testing approach before any work begins. They follow a strict Review → Approval pattern and answer three critical questions: WHAT to test, HOW to test, and WHEN to test.

#### AREA 1: Test Requirement Analysis

**Phase:** Requirements Definition | **Focus:** WHAT needs to be tested and WHY

Control ID	Control Name	Type	Responsible	Key Activity	Repository
PRC.TS.01	Test Requirements Analysis Review for Escalated Major Events	NON-KEY (Review)	SDLC G&QM	Independent review of: <ul style="list-style-type: none"><li>• Testing scope</li><li>• Acceptance criteria</li><li>• Definition of done</li><li>• Estimates</li><li>• Change impact analysis</li></ul>	G&QM SharePoint
PRC.TS.02	Test Requirements Analysis	KEY (Approval)	Project Sponsors & App/Product Owners	Formal approval of all requirements analysis before strategy development begins	ADO / SNOW TMM

**Key Artifacts:** Testing Scope • Acceptance Criteria • Definition of Done (Testing) • Testing Estimates • Change Impact Analysis • Procedure Documentation • Standard Documentation • G&QM; Self-Assessment (.01) • G&QM; Review Form (.01) • G&QM; Charter (.01) • Documented Approvals (.02)

#### AREA 2: Test Strategy Development

**Phase:** Strategic Planning | **Focus:** HOW testing will be conducted

Control ID	Control Name	Type	Responsible	Key Activity	Repository
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PRC.TS.03	Test Strategy Review for Escalated Major Events	NON-KEY (Review)	SDLC G&QM	Independent review of: <ul style="list-style-type: none"><li>• Test approach</li><li>• Processes/methodology</li><li>• Infrastructure</li><li>• Data management</li><li>• Defect management</li><li>• Automation</li><li>• Reporting</li></ul>	G&QM SharePoint
PRC.TS.04	Test Strategy Development	KEY (Approval)	Project Sponsors & App/Product Owners	Formal approval of complete test strategy before plan development begins	ADO / SNOW TMM

**Key Artifacts:** Testing Scope (strategic) • Test Approach • Test Processes and Methodology • Test Infrastructure • Test Data Management • Defect Management • Testing Automation • Reporting and Communication • Procedure Documentation • Standard Documentation • G&QM; Self-Assessment (.03) • G&QM; Review Form (.03) • G&QM; Charter (.03) • Documented Approvals (.04)

## AREA 3: Test Plan Development

**Phase:** Detailed Planning | **Focus:** WHEN to test and with WHAT resources

Control ID	Control Name	Type	Responsible	Key Activity	Repository
PRC.TS.05	Test Plan Review for Escalated Major Events	NON-KEY (Review)	SDLC G&QM	Independent review of: <ul style="list-style-type: none"><li>• Test requirements</li><li>• Approach/processes</li><li>• Traceability</li><li>• Infrastructure</li><li>• Schedule/effort</li><li>• Methodologies</li><li>• Domains</li><li>• Tech/tooling</li></ul>	G&QM SharePoint

PRC.TS.06	Test Plan Development	KEY (Approval)	Project Sponsors & App/Product Owners	Formal approval of detailed test plan before execution begins	ADO / SNOW TMM
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**Key Artifacts:** Test Requirements (detailed) • Test Approach and Processes • Test Traceability Approach • Test Infrastructure (detailed) • Test Schedule and Effort • Testing Methodologies • Testing Domains • Testing Technology and Tooling • Stakeholder Approvals • Procedure Documentation • Standard Documentation • G&QM; Self-Assessment (.05) • G&QM; Review Form (.05) • G&QM; Charter (.05) • Documented Approvals (.06)

■ **PRIMARY AREAS SUMMARY:** These three areas (6 controls total) form the planning foundation. They MUST be completed in sequence before testing execution begins. High-risk projects require both Review (.01, .03, .05) and Approval (.02, .04, .06) controls. Standard projects may only require Approval controls.

## 4. ADDITIONAL TESTING AREAS (4-11): Execution & Management

**These controls govern the actual execution of testing activities, environment management, defect handling, and special scenarios.** Unlike Primary Areas, these don't always follow the Review → Approval pattern, as many are execution-focused activities.

Area	Control IDs	Phase	Focus	Key Activities	Type
4. Test Design Development	PRC.TS.07	Design & Preparation	Creating test cases and scenarios	<ul style="list-style-type: none"> <li>• Test case creation</li> <li>• Test scenarios</li> <li>• Test data preparation</li> <li>• Test scripts</li> <li>• Expected results</li> </ul>	KEY (Execution)
5. Test Environment Configuration	PRC.TS.08 PRC.TS.09 PRC.TS.10	Environment Setup	Setting up and managing test environments	<ul style="list-style-type: none"> <li>• Environment separation (08)</li> <li>• Environment configuration (09)</li> <li>• Configuration exceptions (10)</li> <li>• Topology setup</li> <li>• Access controls</li> </ul>	KEY (Setup & Management)
6. Minimum Testing Requirements	PRC.TS.11 PRC.TS.19*	Compliance & Standards	Ensuring minimum testing standards are met	<ul style="list-style-type: none"> <li>• Standards validation</li> <li>• Coverage requirements</li> <li>• Program type classification</li> <li>• Annual review (19)</li> <li>• Compliance checks</li> </ul>	KEY (Standards)
7. Test Execution and Results	PRC.TS.12 PRC.TS.13	Execution	Running tests and documenting results	<ul style="list-style-type: none"> <li>• G&amp;QM review of execution (12)</li> <li>• Test execution (13)</li> <li>• Results documentation</li> <li>• Coverage reporting</li> <li>• Pass/fail tracking</li> </ul>	NON-KEY (12) KEY (13)
8. Testing Defect Remediation	PRC.TS.14 PRC.TS.15 PRC.TS.16 PRC.TS.17	Issue Management	Managing and resolving testing defects	<ul style="list-style-type: none"> <li>• High/Critical defect review (14)</li> <li>• High/Critical remediation (15)</li> <li>• Medium/Low defect review (16)</li> <li>• Medium/Low remediation (17)</li> <li>• Root cause analysis</li> </ul>	NON-KEY (14, 16) KEY (15, 17)

9. Vendor Testing Evidence	PRC.TS.19*	Third-Party Validation	Managing vendor testing evidence	<ul style="list-style-type: none"> <li>• Vendor test report collection</li> <li>• Evidence validation</li> <li>• Third-party certifications</li> <li>• Vendor documentation review</li> </ul>	KEY (Validation)
10. Data Protection & Security Exceptions	PRC.TS.20	Security & Compliance	Managing security exceptions for test data	<ul style="list-style-type: none"> <li>• Exception request processing</li> <li>• Risk assessment</li> <li>• Approval documentation</li> <li>• Compensating controls</li> </ul>	KEY (Exception Management)
11. Vulnerability Remediation	PRC.TS.21	Security Testing	Managing security vulnerabilities found in testing	<ul style="list-style-type: none"> <li>• Vulnerability scanning</li> <li>• Penetration test results</li> <li>• Remediation planning</li> <li>• Closure validation</li> </ul>	KEY (Security Remediation)

\* **NOTE on PRC.TS.19:** This control ID appears in both Area 6 (Minimum Testing Requirements Annual Review) and Area 9 (Vendor Testing Evidence). This is intentional as PRC.TS.19 serves dual purposes in the testing framework.

**■ ADDITIONAL AREAS SUMMARY: These eight areas (15 controls total) handle execution, management, and special scenarios. They are applied based on project needs and risk profile. Not all projects require all controls - application is determined by risk assessment and project characteristics.**

## 5. Complete Control Summary: All 21 Controls at a Glance

Control ID	Control Name	Area	Type	Authority
PRC.TS.01	Test Requirements Analysis Review	Area 1	NON-KEY	SDLC G&QM
PRC.TS.02	Test Requirements Analysis	Area 1	KEY	Sponsors/Owners
PRC.TS.03	Test Strategy Review	Area 2	NON-KEY	SDLC G&QM
PRC.TS.04	Test Strategy Development	Area 2	KEY	Sponsors/Owners
PRC.TS.05	Test Plan Review	Area 3	NON-KEY	SDLC G&QM
PRC.TS.06	Test Plan Development	Area 3	KEY	Sponsors/Owners
PRC.TS.07	Test Design Development	Area 4	KEY	Testing Team
PRC.TS.08	Test Environment Separation	Area 5	KEY	Infrastructure Team
PRC.TS.09	Test Environment Configuration	Area 5	KEY	Infrastructure Team
PRC.TS.10	Test Environment Config Exceptions	Area 5	KEY	Infrastructure/G&QM
PRC.TS.11	Minimum Testing Requirements	Area 6	KEY	Testing Governance
PRC.TS.12	Test Execution & Results Review	Area 7	NON-KEY	SDLC G&QM
PRC.TS.13	Testing Execution and Results	Area 7	KEY	Testing Team
PRC.TS.14	High/Critical Defect Review	Area 8	NON-KEY	SDLC G&QM
PRC.TS.15	High/Critical Defect Remediation	Area 8	KEY	Development Team
PRC.TS.16	Medium/Low Defect Review	Area 8	NON-KEY	SDLC G&QM
PRC.TS.17	Medium/Low Defect Remediation	Area 8	KEY	Development Team

PRC.TS.19	Vendor Testing Evidence / Annual Review	Area 6 & 9	KEY	Vendor Mgmt/Governance
PRC.TS.20	Data Protection & Security Exceptions	Area 10	KEY	Security/Testing Team
PRC.TS.21	Vulnerability Remediation	Area 11	KEY	Security/Dev Team

**Note:** PRC.TS.18 is not included in the current control framework. Total active controls: 21 (PRC.TS.01 through PRC.TS.21, excluding TS.18)

## 6. Decision Logic & Control Placement Guide

### Quick Decision Tree: Which Control Should I Use?

Question	Answer	Action / Control to Use
What phase am I in?	Requirements Definition	Use Area 1: PRC.TS.01 (review if escalated) + PRC.TS.02 (approval)
	Strategy Planning	Use Area 2: PRC.TS.03 (review if escalated) + PRC.TS.04 (approval)
	Detailed Planning	Use Area 3: PRC.TS.05 (review if escalated) + PRC.TS.06 (approval)
	Test Design	Use Area 4: PRC.TS.07
	Environment Setup	Use Area 5: PRC.TS.08, 09, 10 (as applicable)
	Test Execution	Use Area 7: PRC.TS.12 (review if escalated) + PRC.TS.13
	Defect Management	Use Area 8: PRC.TS.14-17 (based on severity)
Is this a high-risk or escalated project?	YES	Apply both ODD (review) and EVEN (approval) controls
	NO	Apply only EVEN (approval) controls

Do I need G&QM review?	YES	Use ODD numbered control → Store in G&QM SharePoint
	NO	Use EVEN numbered control → Store in ADO/SNOW
Where do I store this document?	Review/Feedback	SDLC G&QM SharePoint (for .01, .03, .05, .12, .14, .16)
	Approval/Execution	Azure DevOps or ServiceNow TMM (for all even controls)

## Control Selection Flowchart:

**START** → Identify Testing Phase

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**Phase Identified?**

- Requirements → Area 1 (TS.01-02)
- Strategy → Area 2 (TS.03-04)
- Planning → Area 3 (TS.05-06)
- Design → Area 4 (TS.07)
- Environment → Area 5 (TS.08-10)
- Execution → Area 7 (TS.11-13)
- Issues → Area 8 (TS.14-17)

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**High Risk Project?**

- YES → Apply ODD (review) + EVEN (approval)
- NO → Apply only EVEN (approval)

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**Store Documents:**

- ODD controls → G&QM; SharePoint
- EVEN controls → ADO / SNOW TMM

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**DONE!**

## 7. Repository & Storage Guidelines

### Where to Store Testing Control Evidence

Repository	What to Store	Which Controls	Access
Azure DevOps (ADO)	<ul style="list-style-type: none"><li>Test requirements analysis docs</li><li>Test strategy documents</li><li>Test plans</li><li>Test cases/scripts</li><li>Documented approvals</li><li>Work item links</li></ul>	All EVEN controls: PRC.TS.02, 04, 06, 07, 08, 09, 10, 11, 13, 15, 17, 19, 20, 21	Project team, sponsors, stakeholders
ServiceNow TMM (SNOW)	<ul style="list-style-type: none"><li>Test case libraries</li><li>Approval workflow records</li><li>Test execution results</li><li>Defect tracking</li><li>Test management artifacts</li></ul>	Test execution and tracking: PRC.TS.02, 04, 06, 13, 15, 17	Testing team, test managers
SDLC G&QM SharePoint	<ul style="list-style-type: none"><li>G&amp;QM review forms</li><li>Self-assessments</li><li>Escalated event documentation</li><li>Review feedback</li><li>G&amp;QM charter</li><li>Independent review records</li></ul>	All ODD controls: PRC.TS.01, 03, 05, 12, 14, 16	G&QM team, audit team, governance

#### ■ Best Practices:

- Name files consistently using control ID (e.g., "ProjectX\_PRC.TS.02\_Requirements\_Approval\_v1.0")
- Include version numbers and dates
- Link related documents (e.g., link PRC.TS.01 review to PRC.TS.02 approval)
- Maintain document history and change logs
- Ensure proper access controls based on document sensitivity
- Regular audits to verify documents are in correct locations

## 8. Practical Examples & Use Cases

### Example 1: High-Risk Mobile Banking App Testing Project

**Project Context:** New mobile banking application with payment features, classified as HIGH RISK

#### Phase 1 - Requirements (Week 1-2):

- Create test requirements analysis document
- **PRC.TS.01:** Submit to G&QM; for review → Store in G&QM; SharePoint
- Incorporate G&QM; feedback
- **PRC.TS.02:** Get sponsor approval → Store in ADO
- ✓ Ready to proceed to Strategy

#### Phase 2 - Strategy (Week 3-4):

- Develop test strategy covering approach, automation, environments
- **PRC.TS.03:** Submit to G&QM; for review → Store in G&QM; SharePoint
- Update strategy based on feedback
- **PRC.TS.04:** Get sponsor approval → Store in ADO
- ✓ Ready to proceed to Planning

#### Phase 3 - Planning (Week 5-6):

- Create detailed test plan with schedule, resources, test cases outline
- **PRC.TS.05:** Submit to G&QM; for review → Store in G&QM; SharePoint
- Refine plan based on feedback
- **PRC.TS.06:** Get sponsor approval → Store in ADO
- ✓ Ready to start execution

#### Phase 4 - Execution (Week 7-12):

- **PRC.TS.07:** Create test cases → Store in ADO/SNOW
- **PRC.TS.08-10:** Setup test environments → Document in ADO
- **PRC.TS.11:** Validate minimum testing requirements met → Store in ADO
- **PRC.TS.13:** Execute tests, document results → Store in SNOW TMM
- **PRC.TS.12:** G&QM; reviews execution for escalated items → Store in SharePoint

#### Phase 5 - Defect Management (Ongoing):

- High severity defect found
- **PRC.TS.14:** G&QM; reviews remediation approach → Store in SharePoint

- **PRC.TS.15:** Dev team fixes defect → Document in SNOW/ADO
- Medium/low defects handled via PRC.TS.16 & 17

## Example 2: Standard Internal Tool Testing (Low Risk)

**Project Context:** Internal reporting tool update, classified as STANDARD RISK

**Controls Applied:**

- **PRC.TS.02:** Requirements approval (NO .01 G&QM; review needed) → Store in ADO
- **PRC.TS.04:** Strategy approval (NO .03 G&QM; review needed) → Store in ADO
- **PRC.TS.06:** Plan approval (NO .05 G&QM; review needed) → Store in ADO
- **PRC.TS.07:** Test design → Store in ADO/SNOW
- **PRC.TS.13:** Test execution (NO .12 G&QM; review needed) → Store in SNOW
- **PRC.TS.17:** Defect remediation if needed → Store in SNOW/ADO

**Note:** This project skips all ODD-numbered (review) controls because it's not escalated. Only approval and execution controls are required, significantly reducing overhead while maintaining governance.

## 9. Quick Reference & Key Concepts

### Essential Concepts to Remember

Concept	Definition	Importance
Escalated Major Events	High-risk projects or significant changes requiring additional governance oversight	Determines if G&QM review (ODD controls) is needed
Key Control vs Non-Key	KEY = Decision/action required NON-KEY = Review/feedback provided	Impacts audit focus and control testing depth
Review vs Approval	Review = Independent assessment Approval = Authorization to proceed	Establishes governance checkpoints
Risk-Based Application	Controls applied based on project risk profile, not one-size-fits-all	Enables efficiency while maintaining governance
Sequential vs Parallel	Primary Areas (1-3) must be sequential Additional Areas (4-11) can be parallel	Affects project planning and scheduling
Repository Alignment	Each control type has designated storage location	Enables quick retrieval and audit readiness

### One-Page Cheat Sheet

Remember This

Quick Guide

<b>ODD = Review</b> <b>EVEN = Approval</b>	ODD controls (.01, .03, .05, .12, .14, .16) → G&QM SharePoint EVEN controls (all others) → ADO / SNOW TMM
<b>Primary Areas (1-3)</b>	Requirements (01-02) → Strategy (03-04) → Plan (05-06) MUST be sequential. High-risk needs both review + approval.
<b>Additional Areas (4-11)</b>	Design (07) • Environment (08-10) • Standards (11, 19) Execution (12-13) • Defects (14-17) • Special (19-21)
<b>High Risk Project</b>	Use BOTH odd and even controls Example: .01 (review) + .02 (approval)
<b>Standard Project</b>	Use ONLY even controls (approvals) Skip odd controls (reviews)
<b>When in Doubt</b>	<ol style="list-style-type: none"> <li>1. Check your phase</li> <li>2. Check risk level</li> <li>3. Apply odd/even pattern</li> <li>4. Store in correct repository</li> </ol>

## ■ CORE MESSAGE

11 Areas | 21 Controls | 2 Types | 1 Clear Pattern

**Primary Areas (1-3) = Planning Foundation = Review then Approve**  
**Additional Areas (4-11) = Execution & Management = Apply as Needed**

**ODD controls = G&QM; Reviews = SharePoint**  
**EVEN controls = Approvals/Execution = ADO/SNOW**

**Master this pattern, and testing governance becomes effortless!**

**For Questions or Clarifications:**

Contact: SDLC Governance & Quality Management Team

Repository: Testing Controls Documentation Site

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