

Technical Writing for QA

Documents That Drive Action

THE MODERN QA ENGINEER SKILLSET

Technical Writing for QA: Documents That Drive Action

Test Plans, Bug Reports, RCAs, and Knowledge Management

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Modern QA Course

<https://modernQAcourse.com>

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Book 24 of 26 in the series *The Modern QA Engineer Skillset*

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Introduction

QA engineers produce more written artifacts than almost any other role on a software team. Bug reports, test plans, test cases, release notes, incident reports, root cause analyses, runbooks, wiki pages, status updates, deployment checklists – the list never ends. And yet most QA engineers receive zero formal training in technical writing.

The result is documentation that nobody reads, bug reports that get misunderstood, incident reports that assign blame instead of preventing recurrence, and test plans that gather dust in a shared drive.

This book exists to fix that.

Writing is not a side activity for QA. It is the primary medium through which quality work becomes visible, actionable, and durable. A bug you found but reported poorly might never get fixed. A test plan you wrote but nobody reads is wasted effort. An incident you analyzed but documented vaguely will repeat itself.

This book covers the full range of QA writing: test documentation that guides teams, bug reports that get fixed, incident reports that drive improvement, release notes that bridge development and deployment, and knowledge management systems that preserve what your team has learned. Every chapter includes templates you can use immediately, before/after examples that show bad writing transformed into good writing, and graded exercises that build your skills from beginner to advanced.

By the end of this book, you will have the skills to produce every major document type a QA engineer needs, and you will have completed a capstone project that demonstrates your ability to create a complete documentation set for a real-world software release.

Who This Book Is For

- **Junior QA Engineers** who want to write clear, professional documentation from the start of their careers
- **Mid-Level QA Engineers** who produce documentation daily but have never received formal training in technical writing
- **Senior QA Engineers and QA Leads** who need to establish documentation standards, templates, and review processes for their teams
- **SDETs and Automation Engineers** who write test documentation, contribute to runbooks, and participate in incident response
- **Engineering Managers** who want to understand what good QA documentation looks like and how to support their teams in producing it
- **Anyone transitioning into QA** from development, support, or another technical role who needs to learn the conventions and expectations of QA writing

Prerequisites

- Basic understanding of software development and testing concepts (what a bug is, what a test case is, what a deployment is)
- Familiarity with at least one project management tool (Jira, Linear, GitHub Issues, or similar)
- Ability to write coherent English sentences (this book will refine your technical writing skills, but it is not a basic writing course)
- Access to a text editor and a project or product you can use for exercises (real or fictional)
- No prior technical writing training is required

How to Use This Book

If you are new to QA writing: Start at Chapter 1 and work through sequentially. Each chapter builds on the previous one, and the exercises increase in complexity.

If you need to improve a specific skill: Jump directly to the relevant chapter. Each chapter is self-contained with its own templates, examples, and exercises.

If you are establishing team standards: Focus on the templates, the peer review framework in Chapter 8, and the capstone project structure in Chapter 9. These give you ready-made standards you can adapt for your organization.

For all readers: Do the exercises. Reading about writing does not make you a better writer. Writing makes you a better writer. The 40 exercises in this book are designed to give you practice on every document type, at every skill level.

Part I: Test Documentation

Test Plans That People Actually Read

The Most Common Failure in QA Documentation

A test plan that nobody reads is worse than no test plan at all – it creates an illusion of rigor while providing none of the value. The most common failure mode in QA documentation is the 50-page test plan that took a week to write, was reviewed by nobody, and became obsolete before the first test was executed.

The goal is not to produce a document. The goal is to align the team on what will be tested, how, and why – and to create a reference that guides testing decisions throughout the project.

Understanding Test Plan Standards

IEEE 829: The Formal Standard

IEEE 829 defines a comprehensive test plan structure that was designed for waterfall projects with long lifecycles and strict documentation requirements. Understanding it matters even if you never use it directly, because many organizational templates are derived from it.

IEEE 829 Test Plan Components:

Section	Purpose	Typical Content
Test Plan Identifier	Unique ID for tracking	TP-PROJECT-001
Introduction	Context and scope	What is being tested, why, and project background
Test Items	What software/features are tested	Module names, version numbers, build identifiers
Features to Be Tested	Specific functionality in scope	Feature list with references to requirements
Features Not to Be Tested	What is explicitly excluded	Out-of-scope items with justification
Approach	Testing strategy and methods	Test types, techniques, tools, automation approach
Item Pass/Fail Criteria	How to determine if a test passes	Pass/fail definitions, thresholds, decision rules
Suspension/Resumption Criteria	When to stop and restart testing	Blocking conditions, escalation procedures
Test Deliverables	What QA will produce	Test cases, reports, defect logs, evidence
Testing Tasks	Breakdown of work	Task list with dependencies and assignments
Environmental Needs	Infrastructure required	Hardware, software, network, test data, access
Responsibilities	Who does what	Roles and assignments
Staffing and Training	People and skills needed	Team size, skill gaps, training plans
Schedule	When testing happens	Dates, milestones, dependencies
Risks and Contingencies	What could go wrong	Risk list with mitigation strategies
Approvals	Sign-off	Names, roles, dates

When to use IEEE 829: Regulated industries (medical devices, aerospace, finance), government contracts, large enterprise projects with

formal governance, and any project where an auditor might ask “where is your test plan?”

The Five Questions Every Test Plan Must Answer

Most modern software teams do not need a 20-section formal document. They need a concise plan that answers five questions:

1. **What are we testing?** (Scope)
2. **What are we NOT testing?** (Out of scope and why)
3. **How are we testing?** (Approach, tools, techniques)
4. **What could go wrong?** (Risks)
5. **How do we know we are done?** (Exit criteria)

If your test plan answers these five questions clearly and concisely, it is a good test plan regardless of its length or format.

Test Strategy vs. Test Plan

These terms are often confused. They serve different purposes and operate at different levels.

Aspect	Test Strategy	Test Plan
Scope	Organization or product-wide	Specific release, sprint, or feature
Timeframe	Long-term (6-12+ months)	Short-term (sprint or release)
Author	QA lead, QA manager, or QA architect	QA engineer on the team
Audience	Leadership, cross-functional stakeholders	Development team, QA team
Content	Principles, approaches, tool choices, team structure	Specific test cases, schedules, assignments
Change frequency	Rarely (quarterly or annually)	Every sprint or release

continued on next page

Aspect	Test Strategy	Test Plan
Example question it answers	“Do we invest in mobile automation?”	“How do we test the new checkout flow?”

When you need both: Large organizations with multiple teams need a strategy (shared direction) and individual test plans (team-specific execution). Small teams can often combine them into a single lightweight document.

When you only need a plan: A single team working on a single product in short sprints. The strategy is implicit in how you work.

Why Test Plans Go Unread

Before writing a test plan, understand why most test plans fail to find an audience.

Problem	Root Cause	Solution
Too long	Writer tried to cover everything	Focus on what is unique to this project; reference the playbook for standard processes
Too generic	Boilerplate copy-pasted from a template	Every sentence should be specific to this project; delete anything generic
Written too early	Plan created before requirements were stable	Write the plan incrementally as features are refined
No visual structure	Walls of text with no headings, tables, or diagrams	Use tables, diagrams, and bullet points; make it scannable
Not shared effectively	Buried in a wiki nobody checks	Link to it from the sprint board, reference it in planning, review it in standup

Template: The One-Page Sprint Test Plan

For most sprint-level testing, a one-page plan is sufficient and far more likely to be read than a multi-page document.

```
# Test Plan: [Feature Name] -- Sprint [N]

## Scope
What is being tested. What user stories are covered.

## Out of Scope
What is explicitly not being tested and why.

## Approach
- Manual testing: [what and why]
- Automated testing: [what and why]
- Exploratory testing: [focus areas]

## Test Environments
| Environment | URL | Purpose |
|---|---|---|
| Staging | staging.example.com | Integration and regression |
| QA | qa.example.com | Feature testing |

## Test Data
What test data is needed and how to obtain it.

## Risks
| Risk | Impact | Mitigation |
|---|---|---|
| Payment API sandbox may be unavailable | Cannot test checkout | Use mock service |
| New design system may break existing flows | Visual regressions | Run visual regression suite |

## Entry Criteria
- [ ] Feature code deployed to staging
- [ ] Test data loaded
- [ ] Test environments accessible

## Exit Criteria
- [ ] All critical test cases passed
- [ ] No open Sev-1 or Sev-2 bugs
- [ ] Automation suite green
- [ ] Exploratory testing completed

## Schedule
| Activity | Start | End | Owner |
|---|---|---|---|
| Test case design | Mon | Tue | QA team |
| Manual execution | Wed | Thu | QA team |
| Automation updates | Wed | Fri | SDET |
| Exploratory testing | Thu | Fri | Senior QA |
```

Before/After: Transforming a Bad Test Plan

BEFORE (Bad Test Plan)

Test Plan for Release 2.4

We will test the new features in release 2.4. Testing will include functional testing, regression testing, and performance testing. The QA team will execute test cases and report bugs. Testing will take place on the QA environment. We will use Jira for bug tracking.

Test Cases:

- Test checkout
- Test search
- Test login
- Test payment

Schedule: Testing will happen next week.

What is wrong with this plan:

- Every sentence is generic and could describe any project
- No specific scope (which “new features”?)
- No risks identified
- No exit criteria (when is testing “done”?)
- No test data requirements
- No environment details beyond a name
- Schedule is vague (“next week”)
- Test cases are so broad they are meaningless

AFTER (Good Test Plan)

```
# Test Plan: Multi-Currency Checkout -- Sprint 14

## Scope
Testing the multi-currency checkout feature (SHOP-1234) that allows
users to pay in EUR, GBP, and JPY in addition to USD. Covers:
- Currency selection on checkout page
- Exchange rate display and refresh
- Payment processing in non-USD currencies
- Order confirmation with converted amounts
- Order history showing original and converted amounts

## Out of Scope
- Mobile app (separate test plan for Sprint 15)
- Currencies beyond EUR, GBP, JPY (Phase 2)
- Admin panel currency management (tested in Sprint 13)
```

```

## Approach
- **Manual testing:** Checkout flow in each currency, edge cases
  (currency switching mid-checkout, rate changes during session)
- **Automated testing:** 12 new E2E tests for currency checkout
  added to Playwright suite; existing 487 regression tests
- **Exploratory testing:** Focus on currency rounding, error
  handling when Forex API is slow or unavailable

## Test Environments
| Environment | URL | Purpose |
|---|---|---|
| QA | qa.shop.example.com | Feature testing with mock Forex API |
| Staging | staging.shop.example.com | Integration testing with real Forex API (sandbox) |

## Test Data
- Test accounts with addresses in US, UK, Germany, Japan
- Test credit cards for USD, EUR, GBP, JPY (Stripe test cards)
- Products with prices that produce rounding edge cases ($9.99, $0.01)

## Risks
| Risk | Impact | Mitigation |
|---|---|---|
| Forex API sandbox rate limits | Cannot test under load | Mock API for load tests |
| JPY has no decimal places | Rounding bugs | Specific test cases for zero-decimal currencies |
| Exchange rate volatility | Inconsistent test results | Pin exchange rates in QA environment |

## Entry Criteria
- [ ] Multi-currency code merged to release/2.4 branch
- [ ] Forex API sandbox credentials configured in QA and staging
- [ ] Test accounts created with international addresses
- [ ] Feature flag 'multi-currency' enabled in QA

## Exit Criteria
- [ ] All 34 manual test cases passed
- [ ] 12 new automated tests passing in CI
- [ ] Full regression suite green (487 tests)
- [ ] No open Sev-1 or Sev-2 bugs
- [ ] Performance: checkout p95 latency < 2s with currency conversion
- [ ] Exploratory testing completed (4 hours, 2 QA engineers)

## Schedule
| Activity | Start | End | Owner |
|---|---|---|---|
| Test case design | Mon Feb 10 | Tue Feb 11 | Alice (QA) |
| Environment setup | Mon Feb 10 | Mon Feb 10 | Bob (DevOps) |
| Manual testing | Wed Feb 12 | Thu Feb 13 | Alice + Carol (QA) |
| Automation | Wed Feb 12 | Fri Feb 14 | Dave (SDET) |
| Exploratory testing | Thu Feb 13 | Fri Feb 14 | Alice (QA) |
| Go/no-go review | Fri Feb 14 2:00 PM | -- | All stakeholders |

```

Notice the transformation: every sentence is specific to this project. A reader immediately knows what is being tested, what is not, what could go wrong, and when testing is done.

Templates for Different Contexts

Sprint Test Plan (1 page)

Used for every sprint. Focuses on what is new and what is risky.

- Scope: new features and bug fixes in this sprint
- Approach: which tests to run, what to automate
- Risks: anything that could block testing
- Exit criteria: definition of “testing is complete”

Release Test Plan (2-3 pages)

Used for major releases that span multiple sprints. Includes regression strategy and release-specific risks.

- Everything from the sprint test plan, plus:
- Regression scope: what existing functionality to re-verify
- Performance testing: load test approach for release
- Compatibility: browser/device/OS coverage
- Deployment verification: smoke tests for production
- Rollback criteria: when to roll back

Project Test Plan (5-10 pages)

Used for large, multi-month projects. Includes comprehensive risk analysis and resource planning.

- Everything from the release test plan, plus:
- Resource plan: who is doing what, skill gaps, training
- Schedule with milestones and dependencies
- Tool and infrastructure setup
- Integration testing approach for multi-team projects
- Acceptance testing coordination with stakeholders

Getting Sign-Off Without Wasting Time

The purpose of sign-off is not bureaucracy – it is alignment. When the product manager, tech lead, and QA lead all sign the test plan, they are agreeing on what “tested” means for this release.

Who signs off:

- QA Lead: owns the plan
- Tech Lead / Engineering Manager: confirms feasibility and completeness
- Product Manager: confirms scope and priorities align with business needs

How to get sign-off efficiently:

1. Share a draft early (not a finished document)
2. Review it in a short meeting (15-30 minutes) rather than asking people to review asynchronously
3. Focus the discussion on scope, risks, and exit criteria – the decisions that matter
4. Document agreements and disagreements. If the PM wants to skip regression on Module X, note it explicitly.

Living Test Plans: Keeping Documentation Current

A test plan that is accurate on day 1 and outdated by day 10 provides no value. Here are strategies for keeping plans current.

Co-Locate with the Work

Store the test plan where the team works. If the team uses Jira, link the plan from the epic or sprint. If the team uses GitHub, put it in the repository. If the plan is in a wiki that nobody visits, it will rot.

Make Updates Part of the Workflow

- Update the plan when sprint scope changes
- Update the risk section when a risk materializes or a new one is identified
- Update the exit criteria when the team agrees to a scope change
- Review the plan briefly in sprint retrospective: “Was the plan accurate? What should we change for next sprint?”

Automated Freshness Checks

For teams with many test plans, use automated reminders:

- Set a review date on every document
- Use a bot or calendar reminder to ping the owner when a plan has not been updated in 30 days

- Archive plans for completed projects so they do not clutter the active workspace

PRO TIP: The best test plan is the shortest one that still aligns the team. If you can achieve alignment with a Jira ticket description and a checklist, you do not need a separate document. The format matters far less than the content. A test plan in a Slack message that everyone reads is more valuable than a Confluence page that nobody opens.

COMMON MISTAKE: Writing the test plan after testing is complete “for documentation purposes.” If the plan did not guide the testing, it is fiction. Write the plan before or at the start of testing, when it can actually influence decisions.

Exercises: Chapter 1

Beginner:

1. *Exercise 1:* Take your team’s most recent test plan (or find one online). Evaluate it against the “why test plans go unread” table. List three specific improvements you would make. (Writing Exercise 1)
2. *Exercise 2:* Write a one-page sprint test plan for a login feature that includes: email/password login, social login (Google, Apple), forgot password flow, and two-factor authentication. Use the one-page template from this chapter. (Writing Exercise 2)

Intermediate:

3. *Exercise 3:* Compare the IEEE 829 structure to the one-page template. Which IEEE 829 sections would add value to your team’s current test plans? Which would be overkill? Write a brief justification for each decision. (Writing Exercise 3)
4. *Exercise 4:* Write a release test plan (2-3 pages) for a major release that includes three new features, five bug fixes, and a database migration. Include a regression strategy, compatibility matrix, and rollback criteria. (Writing Exercise 4)

Advanced:

5. *Exercise 5:* Create a test strategy document for a product you know well that covers the next 6 months. Address all five key questions (what, what not, how, risks, done criteria) and include a section on how individual sprint test plans should reference the strategy. (Writing Exercise 5)
6. *Exercise 6:* Establish a plan review process for your team. Define: who reviews, when they review, what the sign-off mechanism is, and how changes are managed. Write this up as a one-page process document. (Writing Exercise 6)

Career Translation**Resume phrasing**

- Designed and maintained sprint and release test plans aligned to IEEE 829 standards, reducing stakeholder misalignment by establishing clear scope, risk, and exit criteria for every release cycle.
- Authored one-page sprint test plans adopted as the team standard, cutting plan creation time by 60% while increasing cross-functional readership and sign-off rates.
- Defined test strategy documents covering 6-month planning horizons, integrating risk-based prioritization that reduced escaped Sev-1 defects by 30% over two quarters.

Cover letter framing

I believe the test plan is the single most important alignment tool a QA engineer produces. In my current role, I replaced a legacy 40-page template with a concise, living test plan format that development, product, and QA actually review and reference throughout each sprint. This shifted our team from writing plans as compliance artifacts to using them as real decision-making tools, which directly improved our release predictability and reduced last-minute scope surprises.

Interview framing

“I approach test planning by starting with the five questions every plan must answer: what are we testing, what are we not testing, how, what are the risks, and how do we know we are done. I optimize for readability and adoption – a plan nobody reads provides zero value regardless of how thorough it is. Trade-offs include brevity versus completeness: I keep sprint plans to one page and reserve the detail for release-level plans, which means I have to be disciplined about what earns a spot on the page. I always include explicit out-of-scope sections because what you choose not to test is as important as what you do test.”

What not to say

- “I write test plans because my manager requires them.” – Shows no ownership or understanding of purpose.
- “My test plans cover everything.” – Signals a lack of prioritization and risk-based thinking; comprehensive plans are rarely read.
- “I use the same template for every project.” – Indicates rigidity; test plans should be tailored to project context, size, and risk.
- “I don’t really need a test plan for small features.” – Conflates plan length with necessity; even small features benefit from documented scope and risks.
- “I write the test plan after testing is done, for documentation.” – Reveals the plan is fiction rather than a planning tool.

Interview Depth Check

Question 1

Prompt: Your team is about to start testing a major payment integration that involves a third-party API, currency conversion, and PCI compliance requirements. The product manager wants testing done in one sprint, but the tech lead warns that the sandbox environment may be unreliable. How would you structure the test plan, and what would you include in the risk section?

What a strong answer should cover:

- Explicit scope breakdown: what parts of the payment flow to test (currency selection, conversion display, payment processing, confirmation), and what to defer
- Out-of-scope items with justification (e.g., mobile app in a later sprint, admin panel already tested)
- Risk identification: sandbox reliability, PCI data handling constraints, rate limits, zero-decimal currencies
- Mitigation strategies for each risk (mock services, test data pinning, fallback plans)
- Entry and exit criteria tied to the specific constraints mentioned
- Communication plan for when risks materialize

Example answer:

- “I would start by scoping the plan around the specific user flows that touch the payment integration, not the entire checkout system. The plan would separate what we can test with mocks versus what requires the live sandbox.”
- “The risk section would address sandbox reliability head-on: I would define a fallback approach using a mock payment service for functional testing, and reserve sandbox time specifically for integration verification. I would also include a risk around PCI constraints limiting the test data we can use, and propose using tokenized test cards.”
- “I would negotiate with the PM on what ‘done in one sprint’ means – full regression of all payment paths, or verification of the new integration with regression deferred to the next sprint. That trade-off needs to be explicit in the plan, not assumed.”
- “Exit criteria would include not just test pass rates but also confirmation that the sandbox integration was tested end-to-end at least once with real API calls, so we are not shipping something only validated against mocks.”

Question 2

Prompt: You inherit a team that has never written test plans. The developers are skeptical and view them as bureaucratic overhead. How do you introduce test planning without creating resistance?

What a strong answer should cover:

- Starting small rather than imposing a heavy process
- Demonstrating value through a concrete example, not a policy mandate
- Choosing the right pilot project (something risky enough that a plan clearly helps)
- Using lightweight formats (one-page plan, not a 20-page document)
- Making the plan collaborative so developers feel ownership, not burden
- Measuring and sharing the outcome (fewer surprises, faster testing, better alignment)

Example answer:

- “I would not announce a new mandatory process. Instead, I would pick an upcoming feature that the team already recognizes as risky – something with external dependencies or a tight deadline – and write a one-page test plan for it.”
- “I would share it informally: ‘Here is what I am planning to test and what I think might go wrong – does this match your understanding?’ That positions the plan as a collaboration tool, not a compliance document.”
- “If the plan surfaces a misunderstanding early – which it almost always does – I would highlight that moment: ‘This plan saved us from discovering in the last day of the sprint that we had different assumptions about scope.’ That is the proof point that wins skeptics.”
- “Once the team sees the value, I would propose a lightweight standard: every sprint gets a one-page plan reviewed in 15 minutes during planning. No 40-page documents, no sign-off ceremonies.”

Question 3

Prompt: You wrote a test plan that was reviewed and approved, but mid-way through the sprint the PM added two new features to the scope. Testing is already underway. What do you do?

What a strong answer should cover:

- Updating the plan rather than pretending it still applies
- Assessing the impact of the new scope on timeline, risks, and resources
- Communicating the trade-offs explicitly (what gets cut or delayed if scope grows)
- Documenting the scope change and the decision
- Not simply absorbing the extra work silently

Example answer:

- “First, I would assess what the two new features require in terms of testing effort, test data, and risk. Then I would update the test plan – specifically the scope, risks, and schedule sections – and present the updated plan to the team.”
- “The critical conversation is about trade-offs: if scope grows but the deadline does not move, something has to give. I would present options: reduce exploratory testing coverage, defer regression on lower-risk areas, or extend the sprint by a day. The PM and tech lead need to make that decision explicitly, not have QA silently absorb the overload.”
- “I would document the scope change in the plan itself, including who approved it and what was traded off. This protects the team and creates an accurate record for the retrospective.”

About This Sample

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About the Author

Yuri Syuganov is a software quality engineer with more than twenty years of hands-on testing experience, spanning the arc from manual test design through Selenium-era automation to today's AI-augmented, agent-driven frameworks. He is the author of *The Modern QA Engineer Skillset*, a 26-book series built on a blunt analysis of what companies actually expect from QA engineers, and the creator of modernQAcourse.com, where the course behind the series is free and readers can bring real testing problems to experienced practitioners. He revises the series as the industry changes — because it does.

Also in This Series

The Modern QA Engineer Skillset — a 26-book course in modern software quality assurance.

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- **Book 1:** Agent Skills for Browser Automation: The Complete Guide
- **Book 2:** AI-Augmented Test Design: From Prompts to Test Suites
- **Book 3:** Agentic Testing Architectures: Building Autonomous QA Systems
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- **Book 13:** Browser Test Automation: Playwright, Patterns, and the Death of Fragile Tests

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- **Book 22:** Test Strategy and Quality Metrics: Measuring What Matters
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