

A Practical Guide to Creating Key Technical Documentation

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1. Introduction

1.1 Purpose

This guide provides instructions on how to create three types of technical documentation:

- **Standard Operating Procedures (SOPs):** Detailed instructions for performing specific tasks or processes correctly and efficiently.
- **Knowledge Base Articles:** User-centric resources designed to enable self-service support.
- **Software Release Notes:** Concise updates communicating software changes, enhancements, and fixes.

These documents are crucial for standardizing operations, enabling user independence, and maintaining transparency in software developments.

1.2 Audience

This guide is intended for technical writers committed to producing high-quality, structured, and consistent documentation. It assumes a foundational understanding of technical writing principles.

2. Standard Operating Procedure (SOP)

2.1 Definition

An SOP includes step-by-step instructions for completing routine tasks or processes, ensuring consistency, efficiency, and compliance with company standards across teams.

2.2 Steps to Create an SOP

1. Identify Audience and Purpose

- **Audience:** Identify who will be reading the SOP and their level of expertise. Tailor the tone and depth of detail accordingly.
- **Purpose:** Define the process the SOP will cover, including key steps and objectives. Specify the intended outcome.

2. Gather Information

- **Collaborate with Subject Matter Experts (SMEs):** Work with SMEs to ensure your SOP is accurate and comprehensive.
- **Understand Workflow:** Map out the entire workflow from start to finish. Whenever possible, observe the workflow firsthand.
- **Identify Tools and Systems:** Determine which tools, systems, or software are used in the process. Include relevant details, including login instructions and configuration details.
- **Address Potential Issues:** Note common errors and challenges. Include preventative measures and troubleshooting steps.

3. Draft the SOP

- **Document header:** Include identification and tracking information.

Field	Description	Example
Title	Name of the SOP	Equipment Cleaning Procedure
Document ID	Unique identifier for SOP	SOP-EC-001
Version	Current version number	2.0
Effective Date	Date of implementation	2025-04-01
Author	Creator	Nikola Tesla, Technical Writer
Reviewed By	Reviewer	John Doe, EHS Specialist
Approved By	Final approver	Jane Smith, Operations Supervisor

- **Main Sections:** Ensure the following sections are included in the KB article.

Section	Description	Example
Purpose	States the objective of the SOP	"This SOP establishes a standardized process for cleaning equipment to ensure safety and compliance with regulations."
Scope	Defines what's covered/not covered	"Applies to all factory staff responsible for routine equipment cleaning. Excludes maintenance and repairs."
Definitions	Explains key terms and abbreviations	"Personal Protective Equipment (PPE): Safety gear such as gloves, glasses, and aprons."
Responsibilities	Assigns roles and duties	"Service Technicians/Operators: Perform equipment cleaning. Supervisors: Verify cleaning procedures are followed."
Materials and Equipment	Lists required tools and resources	"Required: Industrial cleaning solution, protective gloves, scrubbing brush."
Procedure	Provides step-by-step instructions	"1. Turn off the machine. 2. Apply cleaning solution to surfaces. 3. Scrub thoroughly. 4. Allow the air to dry."
Safety Considerations	Identifies risks and mitigations	"Hazard: Chemical exposure. Mitigation: Wear PPE."
References	Lists related resources	"Refer to the Environmental Health & Safety (EHS) Manual for chemical handling guidelines."
Revision History	Tracks updates to the SOP	"Version 2.0 – 2025-04-01: Added safety precautions for chemical handling."

- **Include Visuals:** When necessary, use images, screenshots, graphics, diagrams, or tables to clarify steps.

4. Proofread, Test, and Revise

- **Proofread SOP:** Review the article for spelling, grammar, clarity, logical flow, and adherence to the organization's style guide.
- **Test the SOP:** Have someone unfamiliar with the process follow the SOP to ensure clarity.
- **Revise Based on Feedback:** Incorporate feedback from testers, and revise sections that are unclear or missing important details.

5. Finalize and Maintain

- **Make Final Revisions:** Send the final draft to stakeholders or SMEs, and incorporate final revisions.
- **Publish:** Once approved, publish the SOP on the company's internal website.
- **Update Regularly:** SOPs should be reviewed and updated regularly, especially when systems or processes change.

2.3 Best Practices

- **Utilize SOP Templates:** Leverage predefined templates for uniformity.
- **Keep It Clear:** Write in clear, active language.
- **Be Specific:** Avoid ambiguous terms, and give concrete examples.
- **Stay Current:** Update SOPs to reflect evolving practices.

3. Knowledge Base (KB) Article

3.1 Definition

KB articles act as a self-service resource, enabling individuals to perform tasks, resolve issues, and find answers independently, thereby reducing the need for direct support.

3.2 Types of Knowledge Base Articles

Type	Description	Example
How-To Guides	Step-by-step task instructions	"Set Up Your XYZ Account"

Informational	Background on products or policies	"What is Two-Factor Authentication?"
Troubleshooting	Solutions to common issues	"Fix Login Errors"
Best Practices	Tips for optimization	"Maximize App Performance"
FAQs	Answers to frequent questions	"Why Can't I Reset My Password?"

3.3 Steps to Create KB Articles

- **Identify Audience and Purpose**

- **Audience:** Identify who will use the article and assess their level of expertise. Tailor the tone and depth of detail accordingly.
- **Purpose:** Define the goal of the article and determine the type of KB article being created.

- **Gather Relevant Information**

- **Collaborate with Subject Matter Experts (SMEs):** Work with SMEs who have in-depth knowledge of the process, system, or product you're writing about.
- **Review Existing Documentation:** Review existing resources or related articles that can be referenced or linked to.
- **Identify Common Issues:** Analyze customer feedback and/or support tickets to identify recurring issues.

- **Draft the KB article**

- **Main Sections:** Ensure the following sections are included in the KB article.

Section	Description	Example
Title	Clear, descriptive, and searchable	"How to Reset Your XYZ Password"
Description	Brief summary of intent and audience	"This article helps XYZ users regain access to their accounts when locked out."
Steps/Solution	Instructions or resolution details	"1. Open the app. 2. Tap 'Forgot Password?'..."
Related Resources	Links to additional articles or docs	"Reference 'Account Setup' for initial login help."

- **Provide Visuals:** When necessary, use images, screenshots, graphics, diagrams, or tables to clarify steps.
- **Proofread, Test, and Revise**
 - **Proofread KB Article:** Review the article for spelling, grammar, clarity, logical flow, and adherence to the organization's style guide.
 - **Test the KB Article:** Have someone unfamiliar with the process follow the SOP to ensure clarity.
 - **Revise Based on Feedback:** Incorporate feedback from testers to improve clarity and effectiveness.
- **Finalize and Maintain**
 - **Make Final Revisions:** Send the final draft to stakeholders or SMEs, and incorporate final revisions.
 - **Publish:** Publish the KB article to the company's knowledge base.
 - **Update Regularly:** Keep the KB article current based on process changes, system updates, and/or user feedback.

3.4 Best Practices

- **SEO Optimization:** Use searchable, keyword-rich titles.
 - **Keep it Clear:** Keep instructions concise and user-friendly.
 - **Address Pain Points:** Anticipate common user pain points and address them proactively.
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4. Software Release Notes

4.1 Definition

Software release notes communicate updates to software products, including new features, bug fixes, improvements, and known issues.

4.2 Steps to Create Release Notes

1. Identify Audience & Purpose

- **Audience:** Identify who will be reading the release notes (e.g., end-users, internal teams, developers, executives). Tailor the tone and depth of detail accordingly.

- **Purpose:** Define the scope of the release notes. Specify the goal, such as informing users of changes or improving usability.
2. **Gather Information:** Collect release details from relevant stakeholders (e.g., Engineers, Developers, Product Managers).
3. **Draft the Release Notes**
- **Main Sections:** Ensure the following sections are included in the Release Notes.

Section	Description	Example
Header	Version number and release date	"Version 4.0.5 - Released March 17, 2025"
Overview	Brief summary of the release	"This release introduces a new way to track charging status, resolves issues with vehicle location updates, and improves app stability."
New Features	Added features/functionalities	"New Features: <ul style="list-style-type: none"> ● Remote Climate Control: Owners can now control the cabin temperature remotely from their XYZ app. ● Charge Status Tracker: Track real-time charging status directly from the XYZ app."
Bug Fixes	Resolved issues from previous versions	"Bug Fix: <ul style="list-style-type: none"> ● Charging Notifications: Fixed an issue where users did not receive charging notifications even when charging was completed."
Improvements	Enhancements to existing features	"Improvements: <ul style="list-style-type: none"> ● UI Enhancement: The app's interface has been redesigned for a sleeker appearance. ● Improved Button Color: The button color scheme has been updated for higher contrast, improving visibility."

Known Issues	Unresolved problems with workarounds	“Known Issue: <ul style="list-style-type: none"> ● Phone Key Not Working: A small number of users may find that their phone keys are not working. This will be addressed in a future release. ● Workaround: Delete and reinstall the app.”
Installation Instructions (if necessary)	Instructions on how users can install or update the software, including prerequisites.	“Installation Instructions: <ol style="list-style-type: none"> 1. Open the app store on your device. 2. Search for the XYZ app and click ‘Update.’”

- **Provide Visuals:** Use screenshots to highlight new features or UI changes.

4. Proofread and Revise

- **Proofread:** Review the release notes for spelling, grammar, clarity, logical flow, and adherence to the organization’s style guide.

5. Finalize and Publish

- **Make Final Revisions:** Send the final draft to stakeholders or SMEs, and incorporate final revisions.
- **Publish:** Once approved, publish the release notes once the changes are live.

4.3 Best Practices

- **Utilize Release Notes Templates:** Leverage predefined templates for uniformity.
- **Prioritize Relevance:** Emphasize user-facing updates over backend updates, highlighting changes that directly impact the user.
- **Maintain Transparency:** Be honest about known issues to foster trust and set clear expectations.