IQC 05 Technical Writing

A Short Introduction, with Exercises

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- 2. Five Components of (Technical) Writing
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What is Technical Writing?

What is Technical Writing? Definition

- Communication written for and about business and industry, focusing on products and services [and policies?], and how to:
 - manufacture them,
 - market them,
 - manage them,
 - deliver them, and use them
 - [or explain them?].

Good technical writing (TW) is **precise**, **clear**, and **accurate**.

What is Technical Writing? Examples of TW Documents

- □ Examples include:
 - CVs and résumés
 - Software manuals
 - Company websites
 - Instructions that come with a device
 - A job description
 - A falafel recipe
 - Help files

- Code comments
- Safety protocols
- This presentation
- Official e-mails
- Use cases
- Briefing notes

□ What about research papers, lab reports, theses, blog articles?

What is Technical Writing? What TW is Not

Literature

- TW is not prose which recounts the fictional tales of characters
- TW is not poetry which expresses deeply felt emotions through similes and metaphors

Essay

- TW does not narrate an occurrence
- TW does not express an opinion

Journalism

TW does not narrate an event or report on news items

Personal

- TW does not focus on poetic images
- TW does not describe personal experiences

What is Technical Writing? The Communication Continuum

Connotative/Expressive

We read literature for pleasure, essays for enlightenment, and journalism for news.

We read technical writing to accomplish a job.

oonnotative/Expressive				
	Type of Writing	Examples	Traits	
	Creative Writing	Poems, plays, stories	Connotative and expressive words, fictional characters, imagery, and plots	
	Expressive Writing	Narratives, descriptions	Subjective, based on personal experience, connotative and expressive words	
	Expository Writing	Comparison/contrast, analysis, cause/effect, argument/persuasion	Objective, connotative and denotative words	
	Journalism	News stories, features, editorials	Objective, written from factual observation, short sentences and paragraphs, some connotative but more denotative words	
	Technical Writing	Memos, letters, reports, instructions, resumés, web pages	Objective, written about products or services, short sentences and paragraphs, denotative words	
Denotative/Ob	jective	Legend: Connotative Denotative		

What is Technical Writing? The Communication Continuum – Comparison

Ode to a Shoe

My son's tennis shoes rest temporarily in a heap against the kitchen door, their laces soiled, their tongues hanging out like exhausted terriers.

The soles, worn down on the insides from sliding into second, are green, the shades of summer.

Canvas exteriors, once pristine white, are the colors of the rainbow—sun bleached, mud splattered, rained on, ketchup and mustard adorned, each shoe shouting a child's joyous exuberance: "I'm alive!"

What is Technical Writing? The Communication Continuum – Comparison

Technical Specifications for Manufacturing Tennis Shoes

The D40 Slammer Tennis Shoe will be manufactured to the following specifications:

• **Sole:** Neoprene rubber #345

white enameled paint, 1.589" high

- Slammer waffle-textured©
- **Uppers:** Blue canvas
- **Tongue:** White canvas

Oval Slammer© logo heat-pressure sealed, centered .50" from all sides

- Laces: 15" long, 100% cotton
- **Aglets:** Clear polyacetate plastic #290
- Weight: 1 lb. 6 oz.

Technical writing conveys precise information.

Exercise and Comments

Write a paragraph explaining why you are taking this course.

Were you precise, clear, and accurate? Is this Technical Writing? Does it need to be?

Communication skills are essential

Most jobs require writing

□ The best idea in the world is worthless if it can't be communicated properly

□ Ideas are preserved through written communication

The Five Components of Technical Writing

Development

Preparing and presenting evidence

🗆 Grammar

- Spelling rules, syntax, conventions
- Document Organization
- **Style**

Document Design

Highlighting techniques and graphs

Comparison with Essays Component

Components	Technical Writing	Essays	Summary
Development	 Uses examples, anecdotes, testimony, data, research 	 Uses examples, anecdotes, testimony, data, research 	Same for both
Grammar	 It is important! 	• It is important!	Same for both
Organization	 Provides an introduction, body, and conclusion Uses a subject line vs. a thesis and itemization of points vs. transitional words Uses topic sentences only when needed, dependent upon the type and length of correspondence 	 Provides an introduction, thesis statement, body paragraphs, transitional words, and topic sentences 	Similar in some ways, different in others
Style	Uses short, denotative words; short sentences; and short paragraphs	Uses longer, connotative words; longer sentences; and longer paragraphs	Different
Document Design	 Uses highlighting techniques, such as graphics, headings, subheadings, various fonts, white space, bullets, etc. 	 Not usually a factor 	Different

Five Components of Technical Writing Development

Uses examples, anecdotes, testimony, data, research

□ Start with overall objectives, then get into details (items, steps, etc.)

□ Logical progression

Research often includes looking up information from various sources (keep track of them and cite as necessary)

Presentation of data and evidence is crucial: use paragraphs, but also charts, graphs, and tables

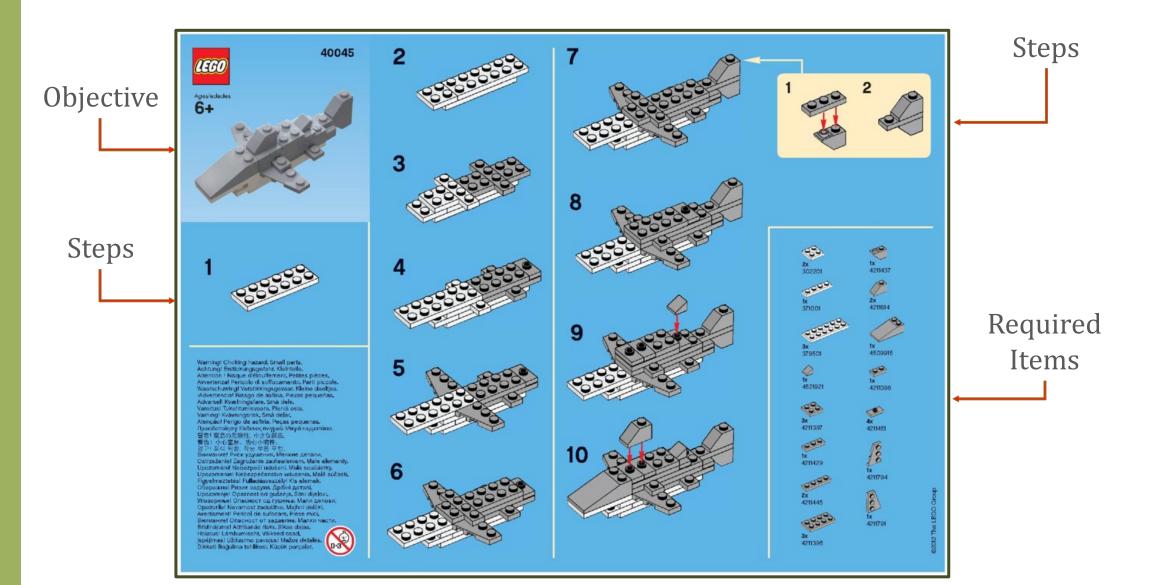
[Information for this presentation taken from J. Cole's Technical Writing Workshop and S.M. Gerson's Writing That Works]



You are tasked with explaining to a group of children how to put together a LEGO kit.

What's your approach?

Exercise Development



- Always use correct grammar and spelling, no matter what language your writing in – mistakes undermine what you're trying to say
- □ When in doubt, look it up or get help from someone who knows
- □ I should use the second person and talk directly to my readers
- □ Avoid slang, dawg!
- Don't be, like, real informal
- □ Explain acronyms: there are many possible meanings for most TLAs.

Always use correct grammar and spelling, no matter the language in which you write – mistakes undermine what you're trying to say

□ When in doubt, look it up or get help from someone who knows

□ Use the second person; talk directly to your reader

Avoid slang

Don't be informal

Explain acronyms: there are many possible meanings for most Three Letter Acronyms (TLAs)

□ Use your spell-checker wisely

Don't shift tenses in the middle of a sentence

□ A sentence has a subject and a predicate [see <u>https://www.wyzant.com/resources/lessons/english/grammar/parts-of-a-sentence</u> for definitions and examples]

□ Don't run your sentences together – this makes them hard to understand

Make the antecedents of your pronouns clear
 [see http://grammar.yourdictionary.com/parts-of-speech/pronouns/pronoun-antecedent.html for definitions and examples]

- Use correct punctuation: periods end sentences and commas separate dependent clauses
- □ Periods go inside quotation marks and parentheses (all of the time.)
- □ Avoid semicolons in technical writing; they can make it too complex
- ❑ Apostrophes are not used to form a plural: "Lend me your CD's!" Apostrophes are used for contractions and possessives: e.g. *its* and *it's*

Ur not txting lol

Exercise Grammar

Candidate for a Pullet Surprise by Mark Eckman and Jerrold H. Zar

Eye halve a spelling check her; It came with my pea sea. It plane lee marks four my revue Miss steaks aye kin knot sea.

Eye ran this poem threw it Your sure reel glad two no. Its vary polished in it's weigh, My checker tolled me sew.

A check her is a bless sing; It freeze yew lodes of thyme. It helps me right awl stiles two reed, And aides me when aye rime.

Each frays come posed up on my screen Eye trussed too bee a joule; The checker pours o'er every word To cheque sum spelling rule. Bee fore wee rote with checkers Hour spelling was inn deck line, Butt now when wee dew have a laps, Wee are knot maid too wine.

Butt now bee cause my spelling Is checked with such grate flare, Their are know faults with in my cite, Of nun eye am a wear.

Now spelling does knot phase me, It does knot bring a tier; My pay purrs awl due glad den With wrapped words fare as hear.

To rite with care is quite a feet Of witch won should be proud; And wee mussed dew da best wee can Sew flaws are knot aloud.

That's why eye brake in two averse Cuz eye dew want too please. Sow glad eye yam that aye did bye This soft wear four pea seas.



□ Fix the poem to be grammatically correct

□ Make the previous sentence concise

"Make the poem grammatically correct"

"Correct the poem's grammar"

Example Grammar

Candidate for a Pulitzer Prize by Mark Eckman and Jerrold H. Zar

I have a spelling checker; It came with my PC. It plainly marks for my review Mistakes I cannot see.

I ran this poem through it You're sure real glad to know. It's very polished in its way, My checker told me so.

A checker is a blessing; It frees you loads of time. It helps me write, all styles to read, And aids me when I rhyme.

Each phrase composed upon my screen I trust to be a jewel; The checker pores o'er every word To check some spelling rule. Before we wrote with checkers Our spelling was in decline, But now when we do have a lapse, We are not made to whine.

But now because my spelling Is checked with such great flair, There are no faults within my sight, Of none I am aware.

Now spelling does not faze me, It does not bring a tear; My papers all do gladden With wrapped words far as near.

To write with care is quite a feat Of which one should be proud; And we must do the best we can So flaws are not allowed.

That's why I break into a verse Cause I do want to please. So glad I am that I did buy This software for PCs.

Five Components of Technical Writing Document Organization

□ Technical Writing does not **usually** employ

- topic sentences (sentence summarizing the paragraph)
- transitions between and within paragraphs
- thesis statements (abstracts or summaries)

□ In a memo or letter, the thesis statement is **usually** replaced by a subject line

Technical Writing uses short paragraphs (small number of sentences expressing a single idea, with support)

Five Components of Technical Writing Document Organization

Transitional words and phrases can be replaced by

- enumerated lists
- list of bullets (•,-, etc.)
- headings and subheadings
- Provide an introduction, a body, and a conclusion
- Put the most useful, general information first
- □ Follow it with detail

Exercise Document Organization

Write a rough outline (with section and sub-section headers and main ideas) for a blog article on a topic of your choice.

Keep in mind that the document's organization is dependent on the target audience.

Five Components of Technical Writing Style

- □ Technical Writing uses
 - short, denotative words;
 - short, simple sentences;
 - short paragraphs with charts (as required)
- □ Focus is on **audience** and **purpose**
- Remember: the reader of technical writing does not necessarily have an interest in the subject matter
- □ People do not read technical writing, such as instructions, for pleasure
- Technical Writing is a means to an end

Exercise Style

Scenario: you are driving late at night on a back road in the country. It is snowing and you have not seen another car for at least 30 minutes. You hit a pothole and realize that one of your tires has been perforated. You have never changed a tire in your entire life. You pull over to the side of the road, open the glove compartment and take out the car's owner manual.

What would you want the instructions to read like?

Exercise Style

Equipment necessary to change the tire are a lift jack and a wrench. Use the jack to lift the vehicle and pick the tire up off the ground. Then use the wrench to loosen the lug nuts on the wheel. Once all the lug nuts are loose, remove them one by one and keep them in a safe place nearby.

After the lug nuts are removed, the wheel and tire can be removed from the car. If a spare wheel is being put in its place, locate the spare wheel under the flooring of the trunk area, and take it out. Place the spare tire onto the lug bolts, and repeat the removal process in reverse order. Start by screwing on each lug nut, and then once all the lug nuts are screwed on, use the wrench to tighten the wheel to the disc plate.

After all the lug nuts are fully tightened, disengage the jack to bring the car back to the ground. Do not exceed 50 miles per hour using a spare and changing the spare back to a standard tire as soon as possible.

Five Components of Technical Writing Document Design

□ Document design refers to the physical layout of the correspondence.

- □ Technical writing uses **highlighting techniques**:
 - graphics and bullets, headings and sub-headings
 - small number of different FONTS, colours, and accents (bold, italics, underline) can help BUT <u>DON'T</u> OVERDO it! (I'm serious. Please don't.)

□ For sequential instructions, use numbered lists

□ For longer documents, include a table of contents and an index

□ For online documents, use hyperlinks

Five Components of Technical Writing Document Design

- □ Avoid clipart and low-resolution images
- □ Organizations may already use a set of templates with writing rules
- □ **LaTeX** can help you manage all this (so can Wizards from Microsoft Office)

Let's revisit the flat tire example.

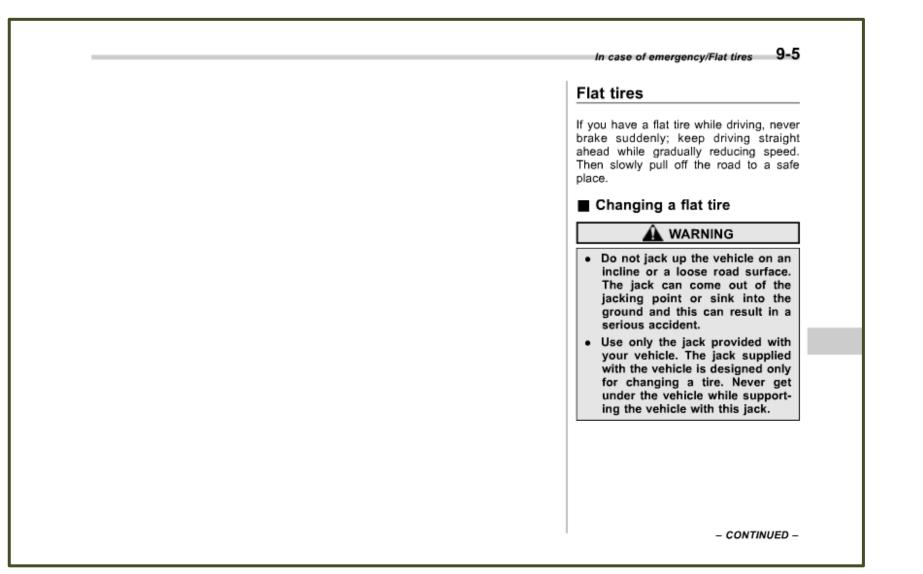
Did you feel that the information was precise?

Did the message get across?

Did you understand it?

Would you have been able to change the tire?

What, if anything is missing?



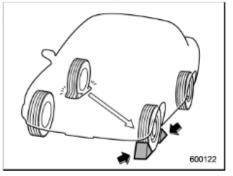
9-6 In case of emergency/Flat tires

 Always turn off the engine before raising the flat tire off the ground using the jack. Never swing or push the vehicle supported with the jack. The jack can come out of the jacking point due to a jolt and this can result in a serious accident.

1. Park on a hard, level surface, whenever possible, then stop the engine.

 Apply the parking brake and shift the shift lever in reverse (MT models) or the select lever in the "P" (Park) position (CVT models).

3. Turn on the hazard warning flasher and have everyone get out of the vehicle.



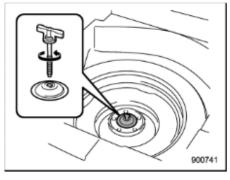
4. Put wheel blocks at the front and rear of the tire diagonally opposite the flat tire.

5. Take out the jack, jack handle and wheel nut wrench.

The tools and the spare tire are stored under the floor of the trunk (Legacy) or the cargo area (Outback). Refer to "Maintenance tools" @9-3.

NOTE

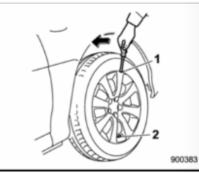
Make sure that the jack is well lubricated before using it.



 Take out the under-floor storage compartment and turn the attaching bolt counterclockwise, then take the spare tire out.

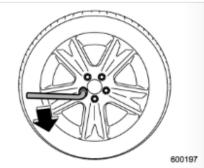
NOTE

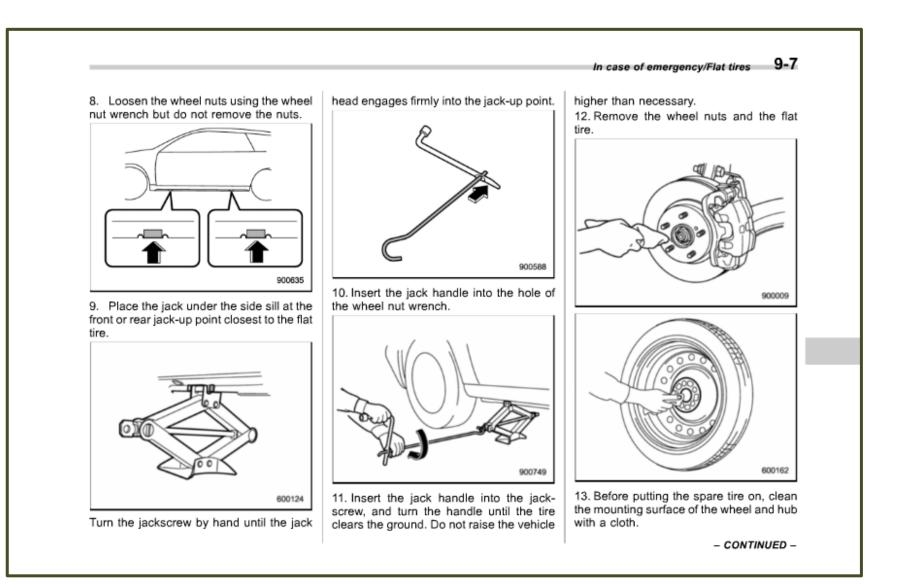
Carefully read "Temporary spare tire" *9-2 and strictly follow the instructions.



Notch
 Valve hole

If your vehicle has wheel covers, insert a flat-head screwdriver into the notch on the opposite side of the valve hole and pry the wheel cover to remove it.





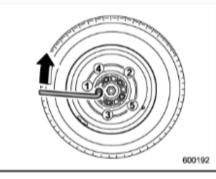
9-8 In case of emergency/Flat tires

14. Put on the spare tire. Replace the wheel nuts. Tighten them by hand.

🛕 WARNING

Do not use oil or grease on the wheel studs or nuts when the spare tire is installed. This could cause the nuts to become loose and lead to an accident.

15. Turn the jack handle counterclockwise to lower the vehicle.



16. Use the wheel nut wrench to securely tighten the wheel nuts to the specified torque, following the tightening order in the illustration.

For the wheel nut tightening torque, refer to "Tires" > 12-9. Never use your foot on the wheel nut wrench or a pipe extension on the wrench because you may exceed the specified torque. Have the wheel nut torque checked at the nearest automotive service facility.

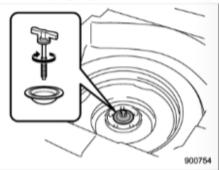
17. Store the flat tire. For details, refer to "Storing a flat tire" @ 9-8. Also store the jack and jack handle in their storage locations.

A WARNING

Never place a tire or tire changing tools in the passenger compartment after changing wheels. In a sudden stop or collision, loose equipment could strike occupants and cause injury. Store the tire and all tools in the proper place.

Storing a flat tire

 Storing in the spare tire compartment (Legacy)



Store the flat tire in the spare tire compartment. Put the spacer and tighten the attaching bolt firmly.

Clarity

Conciseness

- Accessible Document Design
- □ Audience Recognition
- □ Accuracy

[Concepts and Exercises from S.M. Gerson's Writing That Works]

Unclear Memo Example

From: Manager Untel *To:* New Employee Smith *Subject:* Meeting

Please plan to prepare a presentation on sales. Make sure the information is very detailed. Thanks.

■ What don't we know in this memo?

What should have been included for clarity?

The 6 Ws

- When's the meeting?
- Where's the meeting?
- Who's the meeting for?
- How much information is "very detailed"?
- How will the presentation be made?
- Why is this meeting being held?
- What does the manager want to be conveyed about sales?

Clear Memo Example

From: Manager Untel *To:* New Employee Smith *Subject:* Sales Staff Meeting

Please make a presentation on improved sales techniques for our sales staff. The meeting is planned for March 28, 2017, in Room 23, from 7:00am - 6:00pm.

Our quarterly sales are down 27%. We need to help our staff accomplish the following:

1. Make new contacts.

2. Close deals more effectively.

3. Earn a 25% profit margin on all sales.

Use the new multimedia presentation system to give your talk. With your help, I know our company can get back on track.

Thanks

- □ The **most important criteria** for effective technical writing. With lack of clarity, the reader will either contact the writer for further clarification, or just ignore the information
 - the writer's and reader's time is wasted

the message is lost

- □ Scenario: your have written a safety manual for furnace maintenance. If the writing is not clear and the reader fails to understand the content:
 - BAD The furnace is damaged. The company replaces the furnace, costs accrue, and public relations have been frayed.
 - WORSE Someone gets hurt, leading to pain, anxiety, doctor's bills, and bad public relations.
 - EVEN WORSE The company is sued and loses money, you lose your job, and public relations are severed.

The 6 Ws (reprise)

- □ Who? Who is your audience? Are they beginners or experts?
- □ What? What do you want your audience to know or do?
- □ When? In what order are things happening?
- □ **Where?** Where will the work take place?
- **How?** How should the task be performed?
- **Why?** Why is this information important?

Avoid imprecise words: *many, few, short, often, recently, thin,* etc.

- □ Use precise words and terminology:
 - "Don't block the user interface thread for more than 2 seconds"
 - "Use four inches of 26-gauge black wire"
- □ Front-load your sentences with important information:
 - "Unfortunately, your program has timed out."
 - "Network connection unavailable. Call 5555 for technical support."
- "I had eggs scrambled with cheddar cheese and toast for breakfast this morning."
 - Were the eggs scrambled with cheese and toast?

Exercise Clarity

Revise the *italicized* vague words and phrases, specifying exact information.

(Invent numbers as required.)

Specificity			
Vague Word(s) Specified			
l have a <i>low GPA.</i>	I have a 6.3 GPA.		
The b-ball player was <i>really tall.</i>	The basketball player was 6 feet, 7 inches.		
l'II be home <i>as soon as</i> <i>possible.</i>	I'll be home by 6 o'clock.		
The team has a <i>losing</i> <i>record.</i>	The team has a 2-5 record.		
The computer has <i>lots</i> of memory.	The computer has 6 Gigs of memory.		

Traits of Technical Writing Conciseness

Consider the question asked in the 1980's Referendum on Québec Independence:

The Government of Québec has made public its proposal to negotiate a new agreement with the rest of Canada, based on the equality of nations; this agreement would enable Québec to acquire the exclusive power to make its laws, levy its taxes and establish relations abroad – in other words, sovereignty – and at the same time to maintain with Canada an economic association including a common currency; any change in political status resulting from these negotiations will only be implemented with popular approval through another referendum; on these terms, do you give the Government of Québec the mandate to negotiate the proposed agreement between Québec and Canada?

Do you understand the question? Do you remember what you read?

Did you even finish reading it?

Do you want Québec to be independent of Canada?

Traits of Technical Writing Conciseness

□ **Concise** means saying much with few words

□ Keep it short and to the point – **Technical Writing Must Fit in the Box**

□ Its opposite is **pleonasm**, which is using many words where few will do

Documents must often fit in a specific physical space

- Résumé might have to be at most 2 pages
- Car owner's manual must fit in glovebox

□ Avoid passive voice:

- "Approximately 2000 records per minute are processed by the system" vs.
- "The system processes approximately 2000 records per minute"

Change the following long words to shorter words.

Changing Long Words to Short Words			
Long Word	Short Word		
utilize	use		
anticipate	await		
cooperate	help		
indicate	show		
initially	first		
presently	now		
prohibit	stop		
inconvenience	problem		

Change the following long phrases to one word.

Changing Long Phrases to One Word

Long Phrase	One Word	
In the event that	if	
At this point in time	now	
With regard to	about	
In the first place	first	
Is of the opinion that	thinks	
Due to the fact that	because	
Make revisions	revise	
Take into consideration	consider	
With the exception of	except	
Make an adjustment of	adjust	

Revise the following long sentences, making them shorter.

- **1.** I will be calling you on May 31 to see if you have any questions at that time.
 - I will call on May 31 to answer questions.

2. If I can be of any assistance to you in the evaluation of this proposal, please feel free to give me a call.

If I can help you assess this proposal, please call.

3. The company is in the process of trying to cut the cost of expenditures relating to the waste of unused office supplies.

- The company is trying to cut costs of unused office supplies.
- **4.** I am of the opinion that graduate students have too much work to do.

I think graduate students are overworked.

Revise the following long sentences, making them shorter (continued).

5. In the month of July, my family will make a visit to the province of New Brunswick.

In July, my family will visit New Brunswick.

6. It is the company's plan to take action to avoid problems with hazardous waste.

The company plans to avoid hazardous waste problems.

7. On two different occasions, the manager of personnel met with at least several different employees to ascertain whether or not they were in agreement with the company's policies regarding overtime.

• Twice, the personnel manager met with six employees to learn if they agreed with the company's overtime policies.

Traits of Technical Writing Accessible Document Design

Consider the following paragraph:

Regarding part number 315564-000, we received 541 units of wafer #3206-2. These were rejected. For the same part number, we received 643 units of wafer #3206-4. These were accepted. Three hundred and twenty-nine units of wafer #3206-5 from the same part number. These were accepted. Next, 344 of part number 315564-000's wafer #3206-6 were accepted. However, the 143 units of wafer #3206-7 (same part number) were rejected. Finally, all 906 units of wafer #3206-8 were rejected. These also were from part number 315564-00.

- □ At a density of 8.4 words per sentence, the writing is **concise**; it is also **clear**, due to specificity of detail.
- □ Does the text succeed? (Is it intelligible?)
- □ The layout makes it nearly **impossible** for the reader to understand the text.

Accessible Document Design

- Wall-to-wall words turn off readers.
- **Highlighting techniques** open the text and make it inviting, while allowing for understanding and insight.

Part Number 315564-00

Wafer #	Quantity Received	Accepted	Rejected
3206-2	541		Х
3206-4	643	∽ □	
3206-5	329	▲	
3206-6	344	►	
3206-7	143		Х
3206-8	906		Х

Traits of Technical Writing Accessible Document Design

- Document design refers to the physical layout
- Technical documents are often used for reference only the reader may have little interest in the subject (!!!)
- □ Long documents require a table of contents and an index
- □ Use hyperlinks in online documents and bookmarks in PDFs
- Don't use paragraphs that look like a "wall of words"
- □ Use tables to present information clearly

... and go easy on the animations.

Exercise Accessible Document Design

Reformat the following text by using highlighting techniques. Consider using bullets or numbers, headings, boldface or underlining, and white space

To make a pie chart using your word processing package's graphic components, turn on the machine. Once it has booted up, double click on the word processing icon. After the system is open, click on "graphic," scroll down to "chart," and double click. Next, click on "data chart types" and select "pie." Once you have done this, input your new data in the "data sheet." After this has been completed, click anywhere on the page to import your new pie chart. If you want to make changes, just double click again inside the pie chart; then you can revise according to your desires.

Exercise Accessible Document Design

SUBJECT – Making a pie chart using your word processing package <u>Preamble</u>

- 1. Start by turning on the computer to boot up the operating system
- 2. Double click on the word processing icon and wait for the program to open. <u>Instructions</u>
- 1. Click on "graphic."
- 2. Scroll down to "chart" and double click.
- 3. Click on "data chart types" and select "pie."
- 4. Input your new data in the "data sheet."
- 5. Click anywhere on the page to import your new pie chart.

To make changes, double click inside the pie chart.

Audience Recognition

□ Essentially, there are three kinds of audiences for Technical Writing:

- High-Tech Peers readers are in the same profession at roughly the same level as the writer (or higher) *Example*: email to counterpart in another company
- Low-Tech Peers readers who may not have the same level of expertise as the writer but who need to understand the subject *Example*: summary of a software design document written for a manager

Lay Readers – everybody else *Example*: list of possible side-effects of a medication, written for an elderly patient

- □ Write differently to each audience type:
 - High-Tech Peers can handle acronyms and abbreviations
 - Low-Tech Peers might also require parenthetical definitions
 - No acronyms for Lay Readers, but a need for follow-up explanations

Audience Recognition

Or with **Highlighting techniques** ...

Achieving Audience Recognition				
Audience	Style	Example		
High Tech Peers	Abbreviations/ Acronyms OK	Please review the enclosed OP and EN .		
Low Tech Peers	Abbreviations/ Acronyms need parenthetical definitions.	Please review the enclosed OP (Operating Procedure) and EN (Engineering Notice).		
Lay Readers	No abbreviations/ acronyms. Explanations instead.	By following the enclosed operating procedure, you can ensure that your printer will run to our engineers' desired performance levels.		

Exercise Audience Recognition

Make a list of 4-6 acronyms or abbreviations from an area of interest.

How many of the participants understand your acronyms?

Define / explain the terms for Low-Tech Peer / Lay Reader.

Traits of Technical Writing Accuracy

- □ Technical writing must be **accurate**:
 - information must be correct and representative
 - no information must be missing

□ Inaccuracies can create nuisances, but can also be downright dangerous

□ Accuracy often involves counting and measuring

□ Difference between accuracy and **incompleteness** (or imprecision):

"Use 4 feet of 3/8-inch rebar" when the requirement is for 1/2-inch rebar

• "Use 4 feet of rebar" does not specify diameter, so the builder isn't sure

Traits of Technical Writing Accuracy

Finish writing, let it sit, then re-read and see what you might have left out or gotten wrong

□ Have someone else read it

□ Read it aloud, and slowly

□ Read it backwards, or upside-down

□ Careful with the spellchecker!



Describe your footwear, as accurately as possible.

Without knowing the purpose of the task, how difficult is it to know how long or how specific you should be?

Once More, With Feeling

Trait	 Important points come first 	ACCESSIBLE DOCUMENT DESIGN Ideas and Content	 Highlighting techniques emphasize main points to help access Highlighting techniques not overused
CLARITY Organization	 Reporter's Questions answered Specific, denotative words used 	AUDIENCE RECOGNITION	 Writer defines all high-tech terms Writer considers audience needs
CONCISENESS	 Words are generally one or two syllables Septences average 	Voice	 Writer uses pronouns to involve audience
Sentence fluency/ word choice	 Sentences average 10-12 words Paragraphs do not exceed six typed lines 	ACCURACY Writing Conventions	 Correct punctuation Correct spelling Correct grammar & usage
	[By Carmen Shelly]		

References

References

- 1. S.M. Gerson, A Teacher's Guide to Technical Writing
- 2. J. Cole, Technical Writing Workshop
- 3. M.H. Larock, J.C. Tressler, C.E. Lewis, *Mastering Effective English*
- 4. J. Freeman, Becoming a Better Editor of Your Own Work
- 5. G.D. Gopen, J.A. Swan, The Science of Scientific Writing
- 6. J.M. Williams, Style: Ten Lessons in Clarity and Grace
- 7. D. Hacker, *The Bedford Handbook*
- 8. Writing at the University of Toronto http://writing.utoronto.ca/