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## 7. Writing Instructions

David McMurray

Jonathan Arnett

*Kennesaw State University*, [earnett@kennesaw.edu](mailto:earnett@kennesaw.edu)

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[Sexy Technical Communication Home](#)

The focus for this chapter is one of the most important of all uses of technical writing—instructions. As you know, *instructions* are those step-by-step explanations of how to do something: how to build, operate, repair, or maintain things. When you finish this chapter you will be able to:

- Analyze and evaluate a set of technical instructions
- Write clear and accurate instructions with an introduction and conclusion
- Develop and design an instruction manual for a specific audience

## Writing Instructions

One of the most common and one of the most important uses of technical writing is instructions—those step-by-step explanations of how to do things: assemble something, operate something, repair something, or do routine maintenance on something. But for something seemingly so easy and intuitive, instructions are some of the worst-written documents you can find. Like me, you've probably had many infuriating experiences with badly written instructions. What follows in this chapter may not be a fool-proof, goof-proof guide to writing instructions, but it will show you what professionals consider the best techniques.

Ultimately, good instruction writing requires:

- Clear, concise writing
- A thorough understanding of the procedure in all its technical detail
- Your ability to put yourself in the place of the reader, the person trying to use your instructions
- Your ability to visualize the procedure in great detail and to capture that awareness on paper
- Finally, your willingness to go that extra distance and test your instructions on the kind of person you wrote them for.

By now, you've probably studied headings, lists, and special notices—writing a set of instructions with these tools probably seems obvious. Just break the discussion out into numbered vertical lists and throw in some special notices at the obvious points and you're done! Well, not quite, but that's a great start. This chapter explores some of the features of instructions that can make them more complex. You can in turn use these considerations to plan your own instructions.

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## Some Preliminaries

At the beginning of a project to write instructions, it's important to **determine the structure** or characteristics of the particular procedure you are going to write about. Particularly in technical instructions, your understanding of the procedure could make the difference between success and failure, or at more complex levels, life and death.

Early in the process, **define the audience and situation** of your instructions. Remember that defining an audience means defining its level of familiarity with the topic as well as other details, including age and ability level. See the discussion of **audiences** and steps to use in defining audiences.

If you are in a writing course, you may need to **write a description of your audience** and attach that to your instructions. This will enable your instructor to assess your instructions in terms of their rightness for the intended audience. And remember too that in a technical-writing course it is preferable to write for nonspecialist audiences—much more of a challenge to you as a writer.

Next, examine the procedure you are describing to **determine the number of tasks**. How many tasks are there in the procedure you are writing about? Let's use the term *procedure* to refer to the whole set of activities your instructions are intended to discuss. A *task* is a semi-independent group of actions within the procedure: for example, setting the clock on a microwave oven is one task in the big overall procedure of operating a microwave oven.

A **simple procedure** like changing the oil in a car contains only one task; there are no semi-independent groupings of activities. Within that task are a number of steps, such as removing the plug, draining the old oil, replacing the filter, and adding the new oil. If you were writing instructions on maintaining your car yourself to save money, you would have several tasks, some which are independent, such as rotating the tires, checking the fluids, or replacing the windshield wiper blades.

A **complex procedure** like using a microwave oven is another example of a procedure that contains plenty of such semi-independent tasks: setting the clock; setting the power level; using the timer; and cleaning and maintaining the microwave.

There may be more to your instructions than just tasks. Some instructions have only a single task, but have many steps within that single task. For example, imagine a set of instructions for assembling a kids' swing set. In my own experience, there were more than a 130 steps! That can be a bit daunting. A good approach is to group similar and related steps into **phases**, and start renumbering the steps at each new phase. **A phase then is a group of similar steps within a single-task procedure.** In the swing-set example, setting up the frame would be a phase; anchoring the thing in the ground would be another; assembling the box swing would be still another.

Another consideration, which maybe you can't determine early on, is how to **focus your instructions**. For most instructions, you can focus on **tasks**, or you can focus on **tools** (or features of tools). Your approach will depend on your overall objective in writing the instructions, and you will find that the task approach is one you will probably use most often, with the discussion of the tools included in notes or supplementary sections like a glossary.

In a **task approach** (also known as task orientation) to instructions on using a phone-

*“Use task orientation. Focus on the tasks your readers want to perform; use how to or -ing phrasing on headings.”*

answering service, you'd have these sections:

- recording your greeting
- playing back your messages
- saving your messages
- forwarding your messages
- deleting your messages, and so on

These are tasks—the typical things we'd want to do with the machine. For further discussion, see the chapter on **[task analysis](#)**.

On the other hand, in a **tools approach** to instructions on using a photocopier, there would be these unlikely sections:

- copy button
- cancel button
- enlarge/reduce button
- collate/staple button
- copy-size button, and so on

If you designed a set of instructions on this plan, you'd write steps for using each button or feature of the photocopier. Instructions using this approach are hard to make work. Sometimes, the name of the button doesn't quite match the task it is associated with; sometimes you have to use more than just the one button to accomplish the task. Still, there can be times when the tools/feature approach may be preferable.

Finally, you have to decide how you are going to group tasks if there are more than one. Simply listing tasks may not be all that you need to do. There may be so many tasks that you must group them so that readers can find individual ones more easily. For example, the following are common task groupings in instructions:

1. unpacking and setup tasks
2. installing and customizing tasks
3. basic operating tasks
4. routine maintenance tasks
5. troubleshooting tasks; and so on

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## Common Sections in Instructions

The following is a review of the sections you'll commonly find in instructions.

As you read the following on common sections in instructions, check out the [example instructions](#).

*Title: use task-oriented phrasing.*

TITLE

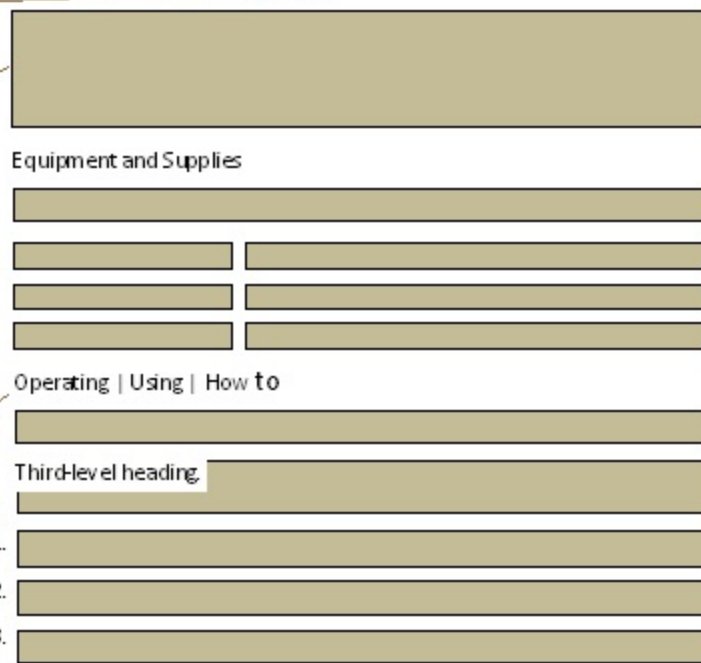
*Introduction:*

- *Identify the procedure.*
- *Indicate audience requirements.*
- *Overview what will be covered.*

*List equipment and supplies (consumables). (Use the second column for details if necessary.)*

*Heading for actual instructions: use one of these styles of phrasing.*

*Actual instructions: use a lead-in; use third-level headings if there are identifiable phases or tasks; use numbered lists for sequential steps.*



*Schematic view of instructions.* Remember that this is a typical or common model for the contents and organization—many others are possible.

**Title.** Naturally you need one, and it should be concise. Avoid awkward noun strings like "Amazing Pizza Rolls Baking Instructions" and instead opt for the "how to", such as "How to Clean Your G.E Microwave" or the gerund, or ing word phrase, such as "Maintaining Your Apple I-Phone."

**Date.** With technical instructions, the date is crucial. It enables the reader to be certain that these instructions are the most current, and if they are not, where these instructions belong in the line of documents related to this product or procedure.

**Table of Contents.** If your instructions consist of multiple tasks or have multiple sections, or are being presented in the form of a manual, a table of contents is necessary.

**Introduction.** Plan the introduction to your instructions carefully. Make sure it does any of the following things (but not necessarily in this order) that apply to your particular instructions:

- Indicate the specific tasks or procedure to be explained as well as the scope of coverage (what *won't* be covered).
- Indicate what the audience needs in terms of knowledge and background to understand the instructions. You may also specify audience age here.
- Give a general idea of the procedure and what it accomplishes. If this is a lengthy set of instructions, indicate how much time may be necessary to complete the task.procedure.

- Indicate the conditions when these instructions should (or should not) be used.
- Give an overview of the contents of the instructions.

See the section on **introductions** for further discussion.

**General warning, caution, danger notices.** Instructions often must alert readers to the possibility of ruining their equipment, screwing up the procedure, and hurting themselves. Also, instructions must often emphasize key points or exceptions. For these situations, you use **special notices**—note, warning, caution, and danger notices. Typically, danger means that there is a risk of severe bodily harm or death; warning means there is actual risk of bodily harm or major damage to the product, and caution means be careful here...there might be a risk. A note is used to explain details, or tell how to trouble shoot a step within a task.

**Technical background or theory.** At the beginning of certain kinds of instructions (after the introduction, of course), you may need a discussion of background related to the procedure. For certain instructions, this background is critical—otherwise, the steps in the procedure make no sense. Here is where you get to show your expertise in writing technical definitions and descriptions. For example, you may have had some experience with those software applets in which you define your own colors by nudging red, green, and blue slider bars around. To really understand what you're doing, you need to have some background on color. Similarly, you can imagine that, for certain instructions using cameras, some theory might be needed as well.

**Equipment and supplies.** Notice that most instructions include a list of the things you need to gather before you start the procedure. This includes equipment, the tools you use in the procedure (such as mixing bowls, spoons, bread pans, hammers, drills, and saws) and supplies, the things that are consumed in the procedure (such as wood, paint, oil, flour, and nails). In instructions, these typically are listed either in a simple vertical list or in a two-column list. Use the two-column list if you need to add some specifications to some or all of the items—for example, brand names, sizes, amounts, types, model numbers, and so on. This may be a good place to use graphics or visuals, especially if a necessary tool is a specialty item.

**Discussion of the steps.** When you get to the actual writing of the steps, there are several things to keep in mind: (1) the structure and format of those steps, (2) supplementary information that might be needed, and (3) the point of view and general writing style.

**Structure and format.** Normally, we imagine a set of instructions as being formatted as vertical numbered lists. And most are in fact. Normally, you format your actual step-by-step instructions this way. There are some variations, however, as well as some other considerations:

- **Fixed-order steps** are steps that must be performed in the order presented. For example, if you are changing the oil in a car, draining the oil is a step that must come before putting the new oil. These are numbered lists (usually, vertical numbered lists). When in doubt, structure your instructions in this format. You may then use notes to indicate if there is any leeway to perform the steps in another sequence.
- **Variable-order steps** are steps that can be performed in practically any order. Good examples are those troubleshooting guides that tell you to check this, check that where you are trying to fix something. You can do these kinds of steps in practically any order. With this type, the bulleted list is the appropriate format.
- **Alternate steps** are those in which two or more ways to accomplish the same thing are presented. Alternate steps are also used when various conditions might exist. Use bulleted lists with this type, with OR inserted between the alternatives, or the lead-in indicating that alternatives are about to be presented.
- **Nested steps.** In some cases, individual steps within a procedure can be rather complex in their own right and need to be broken down into substeps. In this case, you indent further and sequence the substeps as a, b, c, and so on.
- **"Stepless" instructions.** And finally there exist instructions that really cannot use numbered vertical list and that do little if any straightforward instructional-style directing of the reader. Some situations must be so generalized or so variable that steps cannot be stated.

See the chapter on [lists](#) for the style and format of these possibilities.

### Supplementary discussion.

- Often, it is not enough simply to tell readers to do this or to do that. They need additional explanatory information such as how the thing should look before and after the step; why they should care about doing this step; what mechanical principle is behind what they are doing; even more micro-level explanation of the step—discussion of the specific actions that make up the step.
- The problem with supplementary discussion, however, is that it can hide the actual step. You want the actual step—the specific actions the reader is to take—to stand out. You don't want it all buried in a heap of words.
- There are at least two techniques to avoid this problem: you can split the instruction from the supplement into separate paragraphs; or you can bold the instruction. The example below shows you a possible technique for including supplementary discussion so that it doesn't obscure the instructions.



### How to change engine oil in six steps

When changing engine oil, always check the owner's manual to find the correct amount and type of oil and filter needed.

1. **Start the vehicle and allow the engine to warm up for a minute.** This allows the existing oil in the engine to warm up so that it drains out very smoothly.
2. **Locate the oil pan drain plug and remove the plug for draining.** Removing the fill cap and pulling the oil dipstick will allow good flow for the oil while draining. If there is more than one plug, drain the oil from both plugs into a container.

**Caution:** Be careful because the old oil may be hot and could burn you.

*Bolding actual user steps in instructions.* Bold text helps distinguish the actual action from the supplementary information.

“ *Avoid telegraphic writing —omitting “understood” articles (the, a, an). True, robots write that way, but we don't have to.* ”

**Writing style.** The way you actually write instructions, sentence by sentence, may seem contradictory to what previous writing classes have taught you. However, notice how “real-world” instructions are written—they use a lot of imperative (command, or direct-address) kinds of writing; they use a lot of “you.” That’s entirely appropriate. You want to get in your reader’s face, get her or his full attention. For that reason, instruction-style sentences sound like these: “ Press the Pause button on the front panel to stop the display temporarily” and a clarifying note might read “You should be careful not to ...”

If your instructions have to be more formal, ask your teacher about preferences for using “you.” You may find that the direct address isn’t appropriate for certain contexts.

For the most effective instructions, **begin each step with an action verb!**

**Never** use the passive voice in instructions. For some weird reason, some instructions sound like this: "The Pause button should be depressed in order to stop the display temporarily." Not only are we worried about the Pause button's mental health, but we wonder who's supposed to depress the thing (are you talkin' to me?). Or consider this example: "The Timer button is then set to 3:00." Again, as the person following these instructions, you might miss this; you might think it is simply a reference to some existing state, or you might wonder, "Are they talking to me?" Almost as bad is using the third person: "The user should then press the Pause button." Again, it's the old double-take: you look around the room and wonder, "Who me?" (For more detail, see [passive-voice problem](#).)

Another of the typical problems with writing style in instructions is that people seem to want to leave out articles: "Press Pause button on front panel to stop display of information temporarily" or "Earthperson, please provide address of nearest pizza restaurant." Why do we do this? Do we all secretly want to be robots? Anyway, be sure to include all articles (*a*, *an*, *the*) and other such words that we'd normally use in instructions.

**Conclusion.** You really don't want to just end your instructions with the last step. A conclusion ties the process up neatly, offers trouble shooting information (i.e. what to do if something went wrong) and if you are writing the instructions as part of your work responsibility, should include contact information.

**Other Back Matter.** Your set of instructions may include a list of references, a glossary or appendix, an index, or technical specifications. Items placed here are important to the overall instructions because they provide additional information that certain audiences may need, but that are not critical to understanding how to complete the procedure.

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## Graphics and Images in Instructions

Probably more so than in any other form of writing (except maybe for comic books), graphics are crucial to instructions. Sometimes, words simply cannot explain the step. Illustrations are often critical to readers' ability to visualize what they are supposed to do. Consider the example of car repair manuals which actually use photographs to illustrate procedures, or screen shots that demonstrate the process of using software.

In a technical writing course, instructions may require you to include illustrations or other kinds of graphics—whatever would normally be used in the instructions. Just be sure that the graphics you choose are appropriate and *placed in close proximity to the steps* they illustrate. Don't make your audience flip pages to see the accompanying graphic.

If you don't create your own graphics or images, and find them in other sources, be sure that you cite the source, preferably right below the graphic.

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## Format in Instructions

**Headings.** In your instructions, make good use of headings. Normally, you'd want headings for any background section you might have, the equipment and supplies section, a general heading for the actual instructions section, and subheadings for the individual tasks or phases within that section. Take a look at the examples at the beginning of this chapter. See [headings](#) for common requirements.

**Lists.** Similarly, instructions typically make heavy use of lists, particularly numbered vertical lists for the actual step-by-step explanations. Simple vertical lists or two-column lists are usually good for the equipment and supplies section. In-sentence lists are good whenever you give an overview of things to come. See [lists](#) for common requirements.

**Special notices.** In instructions, you must alert readers to possibilities in which they may damage their equipment, waste supplies, cause the entire procedure to fail, injure themselves or others—even seriously or fatally. Companies have been sued for lack of these special notices, for poorly written special notices, or for special notices that were out of place. See [special notices](#) for a complete discussion of the proper use of these special notices as well as their format and placement within instructions.

### Replace the Guitar Neck

If you've followed the previous steps, your fretboard is now scalloped. The only thing left to do is put your guitar back together. To put it back together, follow these steps:

1. Remove the tape from the frets.
2. Insert the neck back into the body.
3. Put the metal panel back in its place and put in the screws.

*Note:* Make sure that you put each screw firmly back in place. The screws keep the neck secure inside the body. If the screws are not installed correctly, the guitar could develop intonation problems.

4. Restring the guitar.

**Mounting the NID.** Follow these instructions to mount the network interface device (NID) on the wall:

*Warning:* Always wear safety glasses when using hand tools. Misuse of the tool or ricochet from power tools can result in eye injury.

1. Select the location for the NID. This should be close to an electrical ground and located in a place where the ISP's wire will reach the NID. The electrical ground can be identified as a copper wire coming from the electric company's equipment on the exterior of your home.
2. Drill the NID into place using the screws. You will need to drill screws into the slots on the top and bottom of the NID.

*Indentation of notices in instructions.* In the first example, notice how the notice is indented to the text of the preceding step. In the second example, notice that the severe notice is placed at the beginning before any of the steps.

**Number, abbreviations, and symbols.** Instructions also use plenty of numbers, abbreviations, and symbols. Be sure you are using them correctly. Remember if your instructions pertain to a brand name product to use trademark symbols appropriately.

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## Revision Checklist for Instructions

As you reread and revise your instructions, watch out for problems such as the following:

- Make sure you provide real instructions—explanations of how to build, operate, or repair something.
- Identify where the instructions will be used.
- Write a good introduction—in it, indicate the exact procedure to be explained, indicate audience requirements, and provide an overview of contents.
- Make sure that you use the various types of lists wherever appropriate. In particular, use numbered vertical lists for sequential steps.
- Use headings to mark off all the main sections and subheadings for subsections. (Remember that no heading "Introduction" is needed between the title and the first paragraph. Remember not to use first-level headings in this assignment; start with the second level.)
- Use special notices as appropriate.
- Make sure you use the style and format for all headings, lists, special notices, and graphics as specified by your teacher for instruction writing assignments.
- Use graphics to illustrate any key actions or objects, and make certain they are located right beside or beneath the step they illustrate and properly labeled.
- Provide additional supplementary explanation of the steps as necessary.
- Remember to create a section listing equipment and supplies, if necessary.

**Some final thoughts about writing instructions...**

As a technical or workplace writer, your ability to write good instructions carries a number of ethical implications. Keep in mind that poorly or carelessly designed instructions leave your or your company liable for damages. They also destroy your credibility and authority. Before you submit any instructions for final review, be sure you get other eyes on them. For small or routine procedures, it may be enough to have a coworker look them over, but more complex instructions should always be tested for usability. Make sure that you have read the chapter on Usability and carried out the necessary testing before your instructions go to publication and distribution.

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## Exercises and Activities

**Exercise 1:** Locate a set of instructions for an item you currently own. How effectively do these instructions meet the guidelines presented in this chapter? Analyze each part of the instructions separately, and summarize your findings in an memo to your instructor. Be prepared to share examples with the class if you are in a face to face classroom.

**Exercise 2:** For discussion: Identify the ethical issues or concerns you must address in creating instructions for the following: Installing a water heater; changing the brakes on a car; preparing an elaborate meal for a large group; attaching the wing to a fighter jet (okay, I know...this is pretty obvious); office policies and procedures for new employees. Can you think of other situations in which ethical concerns must be addressed?

**Exercise 3:** Create an instruction manual. This may be completed as a group or individual project: Instructions for this activity may be found here. Your teacher will provide additional information and guidelines.

## Writing Assignment: The Instruction Manual

The main purpose of this assignment is to give you practice in writing instructions and creating a manual, one of the most common kinds of technical communication you will do in the workplace and in your day-to-day life. Some common reasons for writing instructions include

- specifying details of technical activities,
- describing office procedures,
  
- preparing training manuals,
- explaining how to operate computer programs, and
- telling your children (or adults who act like children) what to do.

An important aspect of writing instructions is using graphics and design: good instructions contain graphics and are designed to be easy to read and understand. Therefore, another

important purpose of this assignment is to improve your skills in the visual dimension of technical communication.

**Directions:** Create an instruction manual that gives directions for completing a process. (A list of topics...and the topics you should not use...is provided at the end of these directions, right after the assessment rubric).

Then, conduct a usability test and include your notes as outlined below, and write a memo response/reflection according to the guidelines in this assignment. See the chapter **Usability** for additional guidance.

## 1. Instruction Manual

- a title page (focus it on the task's audience, not the assignment)
- a table of contents
- a brief introduction
- a technical definition and description
- materials and/or equipment needed to carry out the instructions
- cautions and safety notices (include ANSI- or ISO-compliant safety information, as appropriate)
- 3–4 pages (max length) of step-by-step instructions (8-12 steps)
- you *must* include visual elements
- all graphic elements must have a caption (*for example*, Figure 1: Widget configuration)
- a conclusion with a feedback statement
- any relevant back matter; this can include troubleshooting information if required.

Your instructions should describe a simple, easily-conducted process, something you could carry out in a classroom setting.

Avoid illegal, unethical, and potentially dangerous topics, but try to find something interesting.

You may get ideas from existing instruction sets online, but you *must* write your own instructions.

## 2. Usability Test Notes

Next, *test* your instructions...on a friend or family member...and take notes as they carry out your process. You might ask them to think aloud as they perform the process, but don't help! Use your notes to revise your instructions if they need it.

Submit a legible photocopy/scan of the handwritten notes you took during the usability testing session. Be sure to identify your "tester." Include notes about what your tester said

during the process, especially any questions he or she asked you while carrying out the instructions.

### 3. Reflective Memo

Write a reflective memo of 300–500 words, addressed to the instructor, in which you describe:

- the rhetorical approach you used to tailor the document to your audience
- how your instructions changed as a result of usability testing
- ethical issues that you encountered
- the course or module objectives you encountered in completing this assignment.

Explain your answers.

### Rubric for Assessment

**The following rubric is a possible guide for the teacher...or you may use it as a checklist to assess your instruction manual before you submit it to the teacher.**

Expectation	Doesn't meet	Partially Meets: May be missing one or more components	Meets: You did a great job achieving the standards of technical instructions
The title page is appropriate for the audience and reflects the principles of good document design.	0	5	10
The writer has included a table of contents.	0	3	5
The introduction identifies the audience and includes at least one definition and one description.	0	5	10

Materials and equipment are presented with any necessary explanation .	0	3	5
Safety alerts and information are appropriate and are placed properly.	0	3	5
8 - 12 step by step instructions which begin with an action verb.	0	10	20
At least 3 visual/graphic elements.	0	3	5
Visual/graphic elements are appropriately placed and captioned.	0	3	5
Conclusion	0	3	5
Back matter if needed (trouble shooting, glossary, references cited)	0	3	5

A reminder...I will subtract points for every grammatical, mechanical, or spelling error! I wear my Grammar Queen T shirt when I grade...

## Suggestions for Topics

Feel free to use one of these ideas, but get permission from me first. I've seen about a billion examples of "How To Tie A Windsor Knot" and don't wish to see another as long as I live, and origami projects are harder to document than you might think. Don't even think about paper airplanes!

- creating artwork / constructing a craft
- using a specific function of a computer software product
- editing pictures in Adobe Photoshop
- creating a graphic for a written assignment
- effective monthly budgeting
- using advanced features of MS Office programs
- carving a pumpkin
- folding origami (*no* paper airplanes)



- coloring Easter eggs
- using advanced features of Adobe Acrobat
- writing a simple computer program
- creating a basic web page
- making balloon animals
- straightening/curling hair
- tying special knots in a necktie
- tying scarves
- creating a flower arrangement
- making simple food items
- publishing a website
- performing first aid or CPR

Here's a link to an annotated set of instructions as an example of how its done...a big thank you to Dr. Jonathan Arnett at KSU! Copy and paste into your browser.

[http://www.dr-arnett.com/WRIT3140/PDF\\_files/Preparing\\_the\\_X7\\_2.pdf](http://www.dr-arnett.com/WRIT3140/PDF_files/Preparing_the_X7_2.pdf)

## Checklist

- Have you included *all three parts* of the assignment?
- Does the organization/content/design of the instructions show audience awareness?
- Are the user's tasks and goal clearly stated?
- Is the instructions' purpose clearly identified?
- Are the related safety issues addressed?
- Does the front matter include a brief technical description?
- Does the instructions document include an introduction, step-by-step instructions, and a conclusion?
- Are appropriate graphics included?
- Is the document design neat and professional?
- Are the notes from the user's think-aloud usability testing session detailed?
- Does the reflective response memo include all required elements?
- Does the reflective memo follow standard memo format?
- Are the spelling, punctuation, grammar, and editing on everything clean and professional?
- Do the instructions actually work?

## A Note...

I use this assignment in my face to face course, but am grateful to Dr. Jonathan Arnett for sharing from his WRIT 3140 class at KSU for wording that will make this assignment better for an online environment. Thanks, Dr. Arnett!

