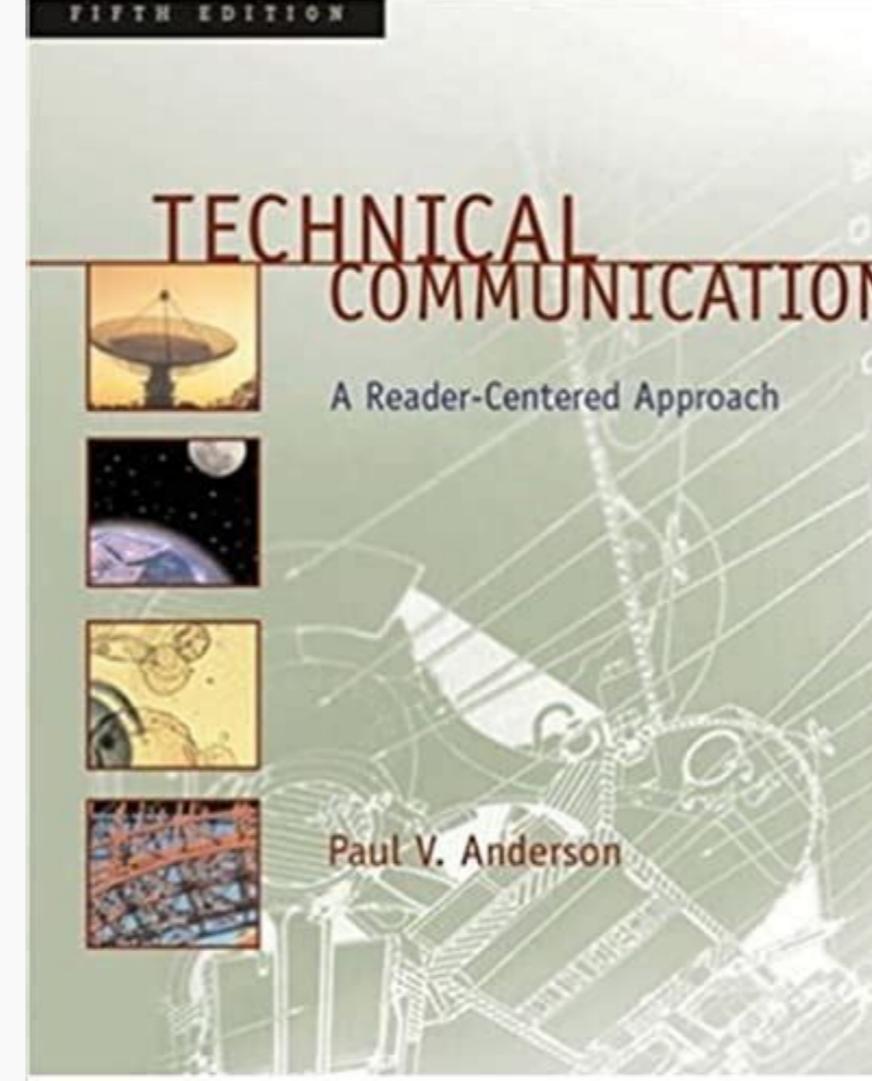


**I'm not a robot!**

## What is the importance of technical communication

**What is the importance of technical drawing as an element of communication. What is the need of technical communication. What is the importance of communication for technical students.**



**Why are technical communication skills important. What is the importance of qualitative research in technical communication.**

Field of communication of technical information Technical communication (or Tech Comm) is communication of technical subject matter such as engineering, science, or technology content. The largest part of it tends to be technical writing, though importantly it often requires aspects of visual communication (which in turn sometimes entails technical drawing, requiring more specialized training). Technical communication also encompasses oral delivery modes such as presentations involving technical material. When technical communication occurs in workplace settings, it's considered a major branch of professional communication. In research or R&D contexts (academic or industrial), it can overlap with scientific writing. Technical communication is used to convey scientific, engineering, or other technical information.<sup>[1]</sup> Individuals in a variety of contexts and with varied professional credentials engage in technical communication. Some individuals are designated as technical communicators or technical writers as their primary role; for some others, the role is inherently part of their technical position (e.g., engineers). In either case, these individuals utilize appropriate skills to research, document, and present technical information as needed. Technical communicators may use modalities including paper documents, digital files, audio and video media, and live delivery. The Society for Technical Communication defines the field as any form of communication that focuses on technical or specialized topics, communicated specifically by using technology, or provides instructions on how to do something.<sup>[2][3]</sup> More succinctly, the Institute of Scientific and Technical Communicators defines technical communication as factual communication, usually about products and services.<sup>[4]</sup> The European Association for Technical Communication briefly defines technical communication as "the process of defining, creating and delivering information products for the safe, efficient and effective use of products (technical systems, software, services)".<sup>[5]</sup> Whatever the definition of technical communication, the overarching goal of the practice is to create accessible information for specific audiences.<sup>[6]</sup> In general, Technical communication is the discipline of writing, editing, and presenting technical information for a specific audience, which may be projected or not, which may be delivered orally or in writing, and which may be delivered to a range of users.<sup>[7]</sup> Technical communicators often work with a range of subject-matter experts (SMEs) on these projects. Technical communication jobs include the following:<sup>[8]</sup> API writer, e-learning author, information architect, technical content developer, technical editor, technical illustrator, technical trainer, technical translator, technical writer, usability expert, user experience designer, and user interface designer. Other jobs available to technical communicators include digital strategist, marketing specialist, and content manager. In 2015, the European Association for Technical Communication published a competence framework for the professional field of technical communication.<sup>[9]</sup> Much like technology and the world economy, technical communication as a profession has evolved over the last half-century.<sup>[8][9]</sup> In a nutshell, technical communicators take the physiological research of a project and apply it to the communication process itself. UX Design in Technical Communications Historically, Technical & Professional Communication (TPC) has been as an industry that practices writing and communication. However, recently User Experience (UX) Design has become more prominent in TPC as companies look to develop content for a wide range of audiences and experiences.<sup>[10]</sup> The User Experience Professionals Association defines user experience, or UX, as "Every aspect of the user's interaction with a product, service, or company that make up the user's perception of the whole."<sup>[11]</sup> Therefore, "user experience design as a discipline is concerned with all the elements that together make up that interface, including layout, visual design, text, brand, sound, and interaction."<sup>[11]</sup> It is now an expectation that technical communication skills should be coupled with UX design. As Verhulsdonck, Howard, and Thau state "...it is not enough to write good content. According to industry expectations, next to writing good content, it is now also crucial to design good experiences around that content." Technical communicators must now consider different platforms such as social media and apps, as well as different channels like web and mobile.<sup>[10]</sup> As Reddish explains, TPC no longer writes content but "writes around the interface" itself as the user experience surrounding content is developed. This includes usable content customized to specific user needs, that addresses user emotions, and thoughts across different channels in a UX ecology.<sup>[12]</sup><sup>[10]</sup> Lauer and Brumberger further assert, "...UX is a natural extension of the work that technical communicators already do, especially in the modern technological context of responsive design, in which content is deployed across a wide range of interfaces and environments."<sup>[13]</sup> Content creation Technical communication is a task performed by specialized employees or consultants. For example, a professional writer may work with a company to produce a user manual. Some companies give considerable technical communication responsibility to other technical professionals—such as programmers, engineers, and scientists. Often, a professional technical writer edits such work to bring it up to modern technical communication standards. To begin the documentation process, technical communicators identify the audience and their information needs. The technical communicator researches and structures the content into a framework that can guide detailed development. As the body of information comes together, the technical communicator ensures that the intended audience can understand the content and retrieve the information they need. This process, known as the writing process, has been a central focus of writing theory since the 1970s, and some contemporary textbook authors apply it to technical communication. Technical communication is important to most professions, a delivery to contain and organize information and maintain accuracy. The technical writing process is based on Cicero's 5 canons of rhetoric, and can be divided into six steps: Determine purpose and audience Collect information (Invention) Organize and outline information (Arrangement) Write the first draft (Style) Revise and edit (Memory) Publish output (Delivery) To begin the documentation process, technical communicators identify the audience and their information needs. The technical communicator researches and structures the content into a framework that can guide detailed development. As the body of information comes together, the technical communicator ensures that the intended audience can understand the content and retrieve the information they need. This process, known as the writing process, has been a central focus of writing theory since the 1970s, and some contemporary textbook authors apply it to technical communication. 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For example, if bank workers don't properly post deposits, a technical communicator would review existing instructional material (or lack thereof), interview bank workers to identify conceptual errors, interview subject matter experts to learn the correct procedures, author new material that instructs workers in the correct procedures, and test the new material on the bank workers. Similarly, a sales manager who wonders which of two sites is better for a new store might ask a marketing professional to study the sites and write a report with recommendations. The marketing professional hands the report off to a technical communicator (in this case, a technical editor or technical writer), who edits, formats, and sometimes elaborates the document in order to make the marketing professional's expert assessment usable to the sales manager. The process is not one of knowledge transfer, but the accommodation of knowledge across fields of expertise and contexts of use. This is the basic definition of technical communication. Audience type affects many aspects of communication, from word selection and graphics use to style and organization.

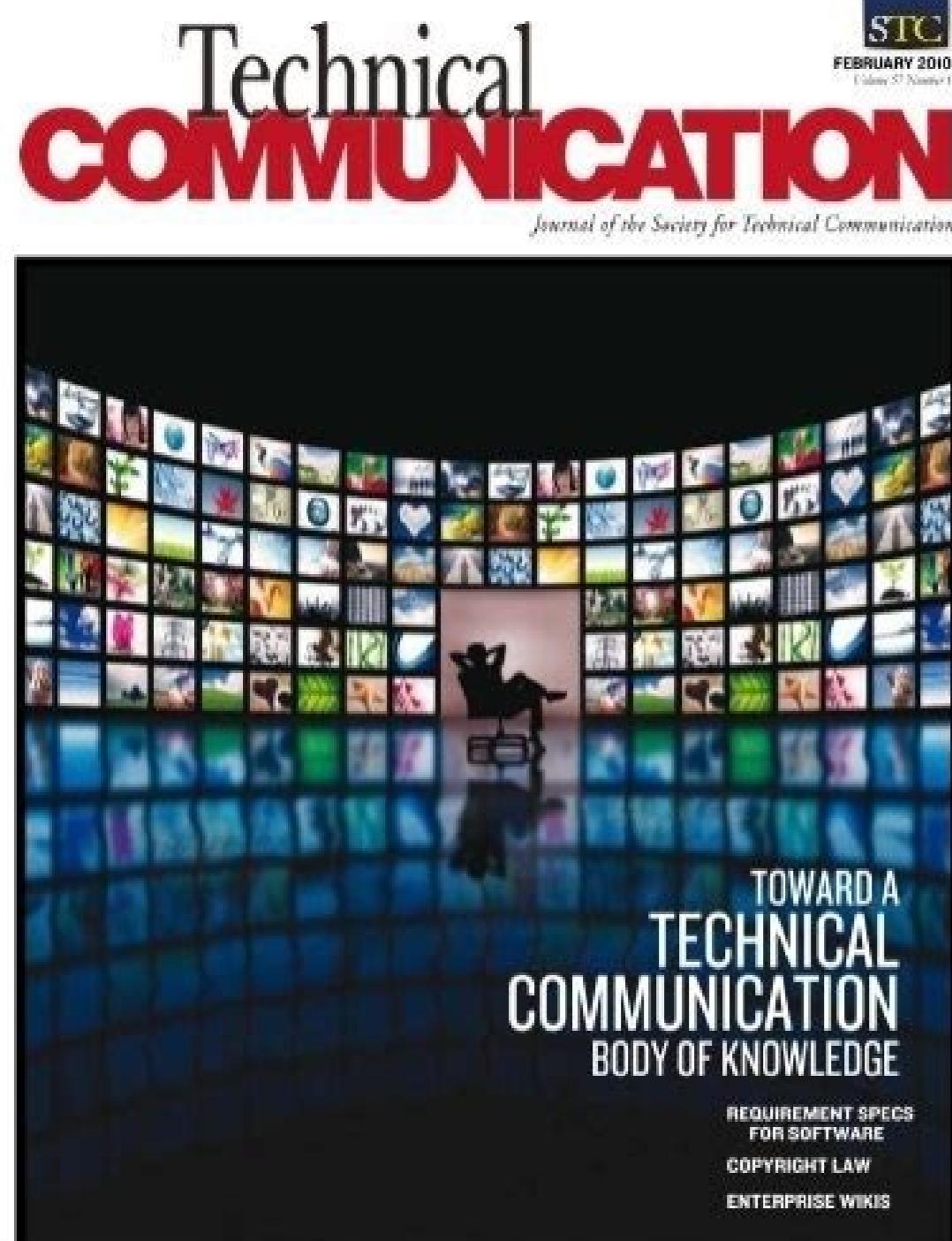
### What Is Technical Communication?

- **Technical communication** is the exchange of information that helps people interact with technology and solve complex problems.
- To interact with technology in so many ways, we need information that is not only technically accurate but also easy to understand and use.

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Most often, to address a particular audience, a technical communicator must consider what qualities make a text useful (capable of supporting a meaningful task) and usable (capable of being used in service of that task). A non-technical audience might misunderstand or not even read a document that is heavy with jargon—while a technical audience might crave detail critical to their work such as vector notation. Busy audiences often don't have time to read entire documents, so content must be organized for ease of searching—for example by frequent headings, white space, and other cues that guide attention.



Other requirements vary according to a particular audience's needs. Technical communicators may need to translate, globalize, or localize their documents to meet the needs of audiences in different linguistic and cultural markets. Globalization involves producing technical content that meets the needs of "as many audiences as possible," ideally an international audience.<sup>[14]</sup> Localization adapts existing technical content to fit the "cultural, rhetorical, educational, ethical, [and] legal" expectations of users in a specific local context.<sup>[14]</sup> Technical communication, in the government, is particular and detailed. Depending on the segment of government (and country), the government component

must follow distinct specifications. Information changes continuously and technical communications (technical manuals, interactive electronic technical manuals, technical bulletins, etc.) must be updated. Collecting information Technical communicators must collect all information that each document requires. They may collect information through primary (first-hand) research—or secondary research, using information from existing work by other authors. Technical communicators must acknowledge all sources they use to produce their work. To this end, technical communicators typically distinguish quotations, paraphrases, and summaries when taking notes. Organizing and outlining information Before writing the initial draft, the technical communicator organizes ideas in a way that makes the document flow well. Once each idea is organized, the writer organizes the document as a whole—accomplishing this task in various ways: chronological: used for documents that involve a linear process, such as a step-by-step guide that describes how to accomplish something; parts of an object: Used for documents that describe the parts of an object, such as a graphic showing the parts of a computer (keyboard, monitor, mouse, etc.); simple to complex (or vice versa): starts with easy ideas and gradually goes into complex ideas; specific to general: starts with many ideas, then organizes the ideas into sub-categories; general to specific: starts with a few categories of ideas, then goes deeper.

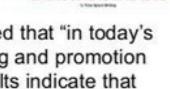
## Importance of Technical communication

- Life line of business
- measure of the success, growth
- link within & outside
- tangible product of the work
- valuable repository of information
- develops desirable qualities
- reveals gaps in thinking

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After organizing the whole document, the writer typically creates a final outline that shows the document's structure. Outlines make the writing process easier and save the author time. Writing the first draft After the outline is complete, the writer begins the first draft, following the outline's structure. Setting aside blocks of an hour or more, in a place free of distractions, helps the writer maintain a flow. Most writers prefer to wait until the draft is complete before any revising so they don't break their flow. Typically, the writer should start with the easiest section, and write the summary only after the body is drafted. The ABC (abstract, body, and conclusion) format can be used when writing a first draft of some document types. The abstract describes the subject so that the reader knows what the document covers. The body is the majority of the document and covers topics in depth. Lastly, the conclusion section restates the document's main topics. The ABC format can also apply to individual paragraphs—beginning with a topic sentence that states the paragraph's topic, followed by the topic, and finally, a concluding sentence. Revising and editing Once the initial draft is laid out, editing and revising can be done to fine-tune the draft into a final copy. Usability testing can be helpful to evaluate how well the writing and/or design meets the needs of end-users and to suggest improvements [115]. Four tasks transform the early draft into its final form, suggested by Pfeiffer and Boogard [citation needed]. Adjusting and reorganizing content In this step, the writer revises the draft to elaborate on topics that need more attention, shorten other sections—and relocate certain paragraphs, sentences, or entire topics. Editing for style Good style makes writing more interesting, appealing, and readable. In general, the personal writing style of the writer is not evident in technical writing. Modern technical writing style relies on attributes that contribute to clarity: headings, lists, graphics; generous white space, short sentences, present tense, simple nouns, active voice [16] (though some scientific applications still use the passive voice), second and third person as required. Technical writing as a discipline usually requires that a technical writer use a style guide. These guides may relate to a specific project, product, company, or brand. They ensure that technical writing reflects formatting, punctuation, and general stylistic standards that the audience expects. In the United States, many consider the Chicago Manual of Style the bible for general technical communication. Other style guides have their adherents, particularly for specific industries—such as the Microsoft Style Guide in some information technology settings. Editing for grammar and punctuation At this point, the writer performs a mechanical edit, checking the document for grammar, punctuation, common word confusions, passive voice, overly long sentences, etc. See also Digital rhetoric Technical definition Technical editing Technical geography Technical writing References ^ Johnson-Sheehan, Richard (2005). Technical Communication Today. Longman. ISBN 978-0-321-1764-9. ^ Defining Technical Communication at the STC official website. Accessed 28 February 2018. ^ a b What is Technical Communications? TechWhirl. Accessed 9 December 2014. ^ Thinking of a career in technical communication? at the ISTC official website. Last updated May 2012. Accessed 28 February 2013. ^ Defining Technical Communication at the Tekom Europe official website. Last updated October 2015. Accessed 8 October 2015. ^ Malone, E. A. (December 2007). "Historical Studies of Technical Communication in the United States and England: A Fifteen-Year Retrospection and Guide to Resources". *IEEE Transactions on Professional Communication*. 50 (4): 333–351. doi:10.1109/TPC.2007.908732. S2CID 39438169. ^ Kimball, Miles A. (April 2016). "The Golden Age of Technical Communication". *Journal of Technical Writing and Communication*. 47 (3): 330–358. doi:10.1177/0047281616641927. S2CID 113266235. ^ a b c Verhulsdonck, Gustav; Howard, Tharon; Tham, Jason (21 September 2021). "Investigating the Impact of Design Thinking, Content Strategy, and Artificial Intelligence: A "Streams" Approach for Technical Communication and User Experience".

## THE IMPORTANCE OF TECHNICAL COMMUNICATION



The National Commission on Writing concluded that "in today's workplace writing is a 'threshold skill' for hiring and promotion among salaried . . . employees. Survey results indicate that writing is a ticket to professional success, while poorly written job applications are a figurative kiss of death" ("Writing: A Ticket to Work" 2007, 3). Technical communication is a significant factor in your work experience for several reasons.

Journal of Technical Writing and Communication. 51 (4): 468–492. doi:10.1177/0047281611041951. ISSN 0047-2816. S2CID 240552938. ^ a b Baxter, Kathy; Courage, Catherine; Caine, Kelly (2015). "Acknowledgments". Understanding your Users. Elsevier. pp. xxiii–xxiv. doi:10.1016/978-0-12-800232-2.00986-7. ISBN 9780128002322. retrieved 7 November 2021 ^ Redish, Ginny. (30 September 2020). UX Writing – A New Role for Technical Communicators? The MasterClass in TechComm for Society for Technical Communications (Washington DC and Baltimore). [Apple podcast]. ^ Lauer, Claire; Brumberger, Eva (2016). "Technical Communication as User Experience in a Broadening Industry Landscape". Technical Communication (Washington), 63 (3): 249. ^ a b Batova, Tatiana; Clark, Dave (9 December 2014). "The Complexities of Globalized Content Management". Journal of Business and Technical Communication. 29 (2): 221–235. doi:10.1177/1050651914562472. S2CID 110090911. ^ Solving problems in technical communication. Johnson-Eila, John dan. Selber, Stuart A. Chicago, 26 December 2012. ISBN 978-0-226-92406-9. OCLC 783150285. (cite book) ^ a b c maint: location missing publisher (link) CS1 maint: others (link) ^ Gary Blake and Robert W. Bly, The Elements of Technical Writing, pg. 63. New York City: Macmillan Publishers, 1993. ISBN 0020130856 External links Media related to Technical communication at Wikimedia Commons Retrieved from "Technical Communication is a form of writing that involves conveying technical information to an audience. Information conveyed through Technical Communication can be about products (such as a user guide for a mobile phone), about a company (such as an annual report released to stakeholders) or about concepts (such as training material on Effective Communication). Technical writing is written communication in fields with specialized vocabularies, such as engineering, health, science and technology, according to About.com. The purpose of technical writing includes completing projects and persuading customers among other possible internal practices. According to Wikipedia, the Society of Technical Communication defines technical writing as communicating about technical or specialized topics or providing instructions about how to do something. Feedback is important to us.