

Importance of English Language Knowledge in Technical Writing: A Quantitative Investigation

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Abstract

Technical writing has been acknowledged as a significant asset of the discipline of English. In recent years, the interest in Scientific and Technical Writing (STW) is developing, and globalization has altogether changed how English is educated in schools & colleges. The improvement of technology and innovation has affected corporate administrators and researchers as well as the young graduates who pick technology and innovation as their specializations. Industries request new alumni to have specialized composing abilities to be utilized. In this way, technical composing skills in each association can't be underrated. As result, this study investigate technical composing ability needs apparent by Iraqi understudies as far as information, abilities, and perspectives towards specialized writing in English. It also attempts to check how much can mindfulness in English language assist the Iraqi students with bettering up their technical abilities. Thus, they need to comprehend the contrasts and likenesses between their way of life and the designated language culture that is English.

Keywords: Writing in English, Technical Writing Competency, Iraqi students, Writing skills, Scientific and Technical Writing (STW)

Introduction

Technical writing can be characterized as a correspondence action in managing and conveying specialized data and subjects like innovation, designing, science, and different fields with explicit wordings at specific work environments through composition (Finklestein, 2007; Indra Devi, Husin and Subatira, 2010). Technical writing is a significant ability for almost any profession including engineers, researchers, modelers, doctors, lab professionals, etc. Work ventures requested likely representatives with sound specialized relational abilities including specialized composition.

Skill recorded as a hard copy in English can be an additional worth to future workers

when looking for a task as the English language has turned into a significant and worldwide vehicle of correspondence broadly. Having great technical writing abilities will permit students to be capable of relational abilities and may give them a credit while going after positions. A review on fostering another abilities standard to deliver information laborers in Iraq had recognized that specialists are needed to support their skill which assists them with doing their work well.

English is a worldwide language; everybody should widen their insight. Hence, the way to progress is the capacity to convey in both spoken & composed English. Furthermore, composing abilities in this particular

language were viewed as particularly significant as talking and listening abilities for passage-level business.

Consequently, specialized correspondence in English involves a fair establishment in everyday composition, remembering information for syntax, composing mechanics, and accentuation shows (Gerrish et al., 2007). As such that implies, students ought to be helped with specialized composition to foster the underpinning of technical writing in this particular language. Subsequently, the students who can't compose well in English are at a critical block. Consequently, specialized composing skill in English has turned into a worthy representative for having to any new alumni in work enterprises.

Iraqi English language students face a few hardships in procuring English composing abilities. These troubles make them low exhibitions. These hardships, for example, customary study hall teaching method, conventional or incapable strategies that need dynamic learning pieces of information, demotivation, or exploration abilities.

Literature Review

Anwar, (2016) talked about the huge connection between the nature of students and the significance of language usage. However, data in regards to the language perspectives of students in Northern Iraq isn't adequate. Thusly, this examination inspects the students' psychology towards learning this particular language at colleges in the Kurdistan district of Iraq.

Abdulla et al. (2017) characterized the concept 'Attitude' as an individual's conviction concerning a characteristic of

executing the conduct, biased by evaluations of properties. Subsequently, an individual has an incredible conviction that unhesitatingly esteemed results will result. All people have a few mentalities towards everything, it very well may be pessimistic or positive, in this way, students' perspectives towards learning English won't differ from the referenced assertion, students could have pessimistic perspectives towards learning the English language, then again, they could have uplifting outlooks towards this particular language.

Abdullah, (2018) showed that language schooling suppliers, researchers, and students ought to perceive that an uplifting outlook and positive inspiration of students empower language learning for technical writing. Accordingly, if the students don't have the inclination & focus in getting the objective language to associate with others then in such case student will confront a negative mentality and not be energized and invigorated in language learning.

Gardi, B., (2021) discussed that many students have negative mentalities towards English. 'Mentality' is viewed as a vital element in language learning. Consequently, it is critical to provide a positive environment in English classes to foster an uplifting perspective in students. College instructors should assess the convictions, sentiments, and practices of the students of English. students' perspectives essentially change concerning their sex and the long periods of language instruction that they have had. This underlines the requirement for specific consideration around here.

Al Asadi, S. S. (2020) discussed that Intercultural mindfulness, WebQuest, and e-

learning can offer an impressive technique for showing English in Iraq. Seventy percent of the points is accomplished and on the other hand thirty percent isn't because of specialized issues such web accessibility, and there are a few issues connected with certain members who need instructional courses in how to get research abilities and refer to the references. This review accomplishes a large portion of its points by further developing the composing abilities, recognizing social and intercultural specificities, fostering the examination abilities, supporting the utilization of dynamic learning procedures, & keeping the members persuaded.

Moodle distance learning framework adds greater inspiration to the method involved with instructing English. The analysts note a few benefits of Moodle distance learning framework, for example, working on the instructive interaction and guaranteeing compelling autonomous work of students in learning English. Second, the ideal execution of the substance in preparing this language regarding the making of a genuinely broad asset base. The Moodle framework permitted educators to take care of the issue of furnishing understudies with instructive and strategic materials, to introduce a reference booklet in a more available & helpful organization straightforwardly in the learning climate. Third, adaptability & versatility of learning, accomplished because EEMC is accessible whenever and outside the college, along these lines students could design their educational programs and course time, perform assignments at a helpful time.

Koltay, T. (1999) explored that student want to learn technical writing need to comprehend social contrasts when getting ready records for interpretation. Proficient documentation is a course that is as yet developing. Even though the measures of gatherings, just as the abilities and development of students, shift, it very well may be thought of as critical to guide students' focus toward most of the standards illustrated here and to utilize techniques that have been demonstrated to be helpful. Then again, proficient documentation can be extraordinary in degree, particularly in its weight on abstracting and by the way it collaborates information on abstracting with composing educational digests.

Crabbe S. (2019) identified that English language is regularly used in technical writing, which is a type of composing an assortment of reports for, designing, science, and related specialized word-related fields. Technical writing manages exceptional information on logical and mechanical topics. Specialized composing is significant not just in the Engineering prospectus in the colleges yet in addition in genuine working life. Inadequate specialized composing practice is given to the designers who study designing and innovation. Specialized composing abilities are profoundly significant.

Lerdpreedakorn N (2018) moreover expressed that composing become perhaps one of the most significant – but, typically troublesome – competencies for college students with a nonnative English basis to dominate, bringing approximately new alumni neglecting to fulfill businesses' conditions of their potential to make use of

the English language. The absence of English correspondence capacities is a pleasant conflict for lately graduate students towards the start in their functioning life. Many examinations have as of overdue been led to investigate the problems.

Ibrahim, S., and Khairi, M.T.M. (2017) contended that three challenges designing students have when composing scholastic articles were: construction, language and content. Great composing invests in some opportunity to dominate and needs excellent input, yet the time and exertion devoted to procuring this expertise in designing courses are lacking. The quantity of architects increments correspondingly; and the data innovation insurgency and exceptionally serious climate, achievement depends not simply on securing particular scientific abilities, critical thinking abilities, and subject-explicit information, yet additionally on creating viable specialized relational abilities. Thusly, engineers need to expand their English abilities to have the option to pass on their message in this particular language at a reasonable level/stage; these abilities will speed up their professional

achievement, increment the shot at finding a decent line of work, and ensuing advancements and subsequently permit them to get more cash-flow.

Objective of the Study

To study the Importance of English Language Knowledge in Technical Writing.

Methodology

The study is empirical. 160 respondents from Iraq participated in the analysis whereas the data was collected from them through a structured questionnaire. Mean & t-test application was done to identify the results. The method of sampling was convenience sampling.

Finding of the study

Table 1 displays the gender, where male respondent is 54.37 and female respondent is 45.62%. Looking at the Age of the Respondents, those who are of 15 to 20 years are 34.75%, those between 20 to 25 years are 36.17%, and 25 years & above are 37.50%. With reference to preferred location, Primary Education are 38.75%, Secondary Education are 43.26% and Tertiary Education are 26.24%.

Table1 Respondent's Details

Variable	No. of respondents	Percentage
Gender		
Male	87	54.37%
Female	73	45.62%
Total	160	100%
Students' Age		

15 to 20 years	49	34.75%
20 to 25 years	51	36.17%
25 years & above	60	37.50%
Total	160	100%
Preferred Education		
Primary Education	62	38.75%
Secondary Education	61	43.26%
Tertiary Education	37	26.24%
Total	160	100%

Table2 Impact of CSR Practices on firms' goodwill

Serial No.	Statement of Survey	Mean Value	t-value	p-value
1	Technical writing in English serves as an essential tool in communicating or conveying one's ideas.	4.27	9.911	0.000
2	Students should exercise on technical writing in English especially in the classroom activities.	4.32	9.927	0.000
3	Success of the information technology revolution and highly competitive environment depends on developing effective technical communication skills.	4.37	10.271	0.000
4	Technical writing in English has to be enjoyable for the reader, it has to engage the reader into the process and make the text understandable.	4.29	7.966	0.000
5	'Attitude' is considered as a necessary factor in language learning as it creates a positive atmosphere in English classes to develop positive attitude in learners.	3.97	4.974	0.000
6	Technical communication in English	4.57	12.770	0.000

	entails a robust foundation in general writing, including knowledge in grammar.			
7	Technical writing has been accepted as an important part of the discipline of English.	4.76	15.623	0.000
8	Technical writing in English ordinary life and real-world situations.	4.19	9.463	0.000
9	Students who are unable to write well in English are at a significant hindrance.	3.85	4.568	0.000
10	The Moodle system presented a training manual in a more accessible and convenient electronic format directly in the learning environment.	4.41	11.952	0.000

Table2 displays the Mean values for the statement for the study done “the Importance of English Language Knowledge in Technical Writing”, looking at the mean scores, the highest mean score is gained by the statement “Technical writing has been accepted as an important part of the discipline of English”, the mean score of 4.76, next statement is “Technical communication in English entails a robust foundation in general writing, including knowledge in grammar” has the mean score of 4.57. Technical writing was also found to be responsible for students’ development as shown in the statement “The Moodle system presented a training manual in a more accessible and convenient electronic format directly in the learning environment” having a mean value of 4.41. Another concern for improving technical writing in English was, “Success of the information technology revolution and highly competitive environment depends on developing effective technical communication skills” in which the mean score is 4.37, and the statement “Students should exercise on

technical writing in English especially in the classroom activities” shows the mean value of 4.32. The mean value of 4.29 is scored by the statement “Technical writing in English has to be enjoyable for the reader, it has to engage the reader into the process and make the text understandable” and for the statement “Technical writing in English serves as an essential tool in communicating or conveying one's ideas” mean score is 4.27. The statement “Technical writing in English ordinary life and real-world situations” shows the mean value of 4.19. The last two statements are in the lowest range, “‘Attitude’ is considered as a necessary factor in language learning as it creates a positive atmosphere in English classes to develop positive attitude in learners” mean value of 3.97, the statement “Students who are unable to write well in English are at a significant hindrance” has the mean value of 3.85. The T-value of every statement in the context of studying the Importance of English Language Knowledge in Technical Writing is significant because t-value statements are

found to be positive and the significance value is also less than 0.05.

Conclusion

Students need to further broaden their functionality in technical writing. This may be feasible by making plans to include extra activities for technical writing in English specifically in schoolroom exercises. Aside from that, the material utilized throughout teaching & learning meetings, for example, the module applied withinside the schoolroom will be made by containing extra essential contributions for designing students. This ought to improve designing students' tendencies in technical writing in English. Besides, it deserves investigating the cutting-edge requirements of the scholars because reactions from the scholars ought to become a motive for the refinement of the material utilized in the study hall which likely has been unnoticed because the exam is a nonstop interplay in recognizing advancing requirements. Thus, a technical composing path will be provided in the education framework in preference to placing it as a subject matter or sub-situation withinside the Communicative English path prospectus. This is when you consider that technical composing ability is crucial in every field.

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