### SELF AND PEER LEARNING IN EFL COMPOSITION CLASSROOM: THE EFFECTS OF A SERIES OF FORMATIVE ASSESSMENT SCAFFOLDS ON EFL STUDENTS' ACADEMIC WRITING QUALITY

Nguyen T. Phuong Nam<sup>1\*</sup>, Huynh N. Tai<sup>2</sup>, Nguyen T. T. Nhung<sup>3</sup>, Nguyen H. Phat<sup>4</sup>, Nguyen T. M. Hanh<sup>5</sup>

Abstract - Improving English foreign language writing through formative assessments has been an essential area for research in writing instruction. The research team first focused on answering the question of how different forms of formative assessment of writing, self-feedback with teacher support, and peer feedback in the revision stage of the writing process, influence Vietnamese EFL novice student writings. The second question was how reliable self- and peer assessments are, in relation to teacher-based assessment of the quality of student writings. The study involved 83 participants at the intermediate level in English, participating in two panels with switching replications. In panel 1, group 1 was learning from peers for essay quality, and group 2 was practicing self-assessment of essay quality with the support of teacher feedback. In panel 2, two groups swapped the conditions. A total of 239 texts of the argumentative genre across five controversial writing topics were collected through the three moments of measurement. The data indicated that the two formative assessment practices would contribute equally to the quality of student writing; however, the sequence of practicing self-assessment first and then peer assessment would be optimal for improving writing quality. Furthermore, the scores the students gave themselves and the others were in correlation with the teacher's ratings. The article concludes by underscoring the necessity of integrating formative assessment practices in the writing process, and student self- and peer-ratings could be

\*Corresponding author: phuongnam@tvu.edu.vn Received date: 29 July 2025; Revised date: 27 September 2025; Accepted date: 29 September 2025 considered as a source of reliable information on the quality of student writing.

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### I. INTRODUCTION

Second language (L2) writing instruction, in most English as a Foreign Language (EFL) contexts of teaching writing, has been aimed at developing students' writing abilities, writing motivation, and also social-emotional competencies, in reference to the fundamental goals of L2 writing pedagogies [1–3] and the learning outcomes of the English Studies program of the Faculty of Foreign Languages at Tra Vinh University [4]. Concerning the L2 writing curriculum in the context of the study, frequent assignments for the senior EFL student writers were five-paragraph persuasive essays that required the self-construction of arguments, the arrangement of content elements in the generic text organization, and the use of linguistic structures and devices for expressing the content [5, 6]. Being members of high-context Southeast Asian cultures that value collective harmony and a nondirective social style, EFL learners might be confronted with the contrast between their first language (L1) way of writing and the requirements of their English-language academic texts. The written text in English was oriented towards the needs of the reader, whereas in Oriental communications, indirect and circular styles in presenting the writer's views seemed to be more appropriate [7–9]. The accompanying problems in L2 writing revolved mainly around ideation processes, macro-textual structuring, and

language use. Of particular concern of a significant body of research on EFL writing instruction was scaffolding planning and revising stages of the writing process to help students overcome difficulties regarding content development and organization [10, 11].

### II. LITERATURE REVIEW

A. Process-genre writing instructions: a call for developing a more complex understanding of the revision stage

## A process-genre approach to teaching writing

The combination of the product-genre and process approaches has been proposed in writing instruction for English language learners across EFL contexts. The central point of the combined approach was to scaffold students' awareness of the intended purpose, text readers, and rhetorical choices specific to the genre, as well as to enhance students' understanding and practice of the sub-processes of self-discovery of content and performance of text [12, 13]. With respect to the current practice in teaching argumentative writing in the university context, instructional procedures for argumentative essays tended to start with the modelling phase and then the main stages of self-ideation, structure planning, drafting, and revision [14, 15]. The process-genre approach has also demonstrated positive effects on students' argumentative writing, as shown in the work of Huang et al. [16]. For students' better self-exploration of topical knowledge and the processes necessary for creating a text, writing instructions advocated teachers shifting power to students through validating their content-related decisions regarding text improvement.

### The necessity of research on revision

Since student writings could be improved through frequent revisions, research on the meaningful revision of student work might be an important contribution to effective writing pedagogy [17]. The earliest cognitive model of writing by Hayes et al. [18] included revision that involves critically reading and making changes to the text to better achieve the writer's goals and

serve the reader's needs. The changes could be made at both micro- and macrostructural features of a text. Microstructure included spelling, punctuation, capitalization, vocabulary choices, syntactic complexity, and use of cohesive devices; while macrostructural characteristics referred to organization, number, and type of functional components, overall coherence, and richness of content of a text [17]. The revision stage in a real classroom usually includes self-review, peer-review, and the teacher's assessment; among the activities, peer review seems to be strongly advocated. However, writing instructors, in both L1 and L2, might face common problems of novice students being reluctant to conduct peer review or their reviews being at a surface level, without feedback on ideas, language, and textual features at the macro level [19]. Furthermore, the question of how revision activities should be prepared and conducted in EFL writing classrooms at Vietnamese universities still needs to be addressed empirically. Finally, since skilled writers were found to go through the revision stage of the writing process carefully, and also techniques including peer and self-assessment as well as teacher feedback, were more relevant to the quality of writing in general, more research effort was required to explore how the revision strategies should be orchestrated in an EFL academic writing course for undergraduate level.

B. The necessity of integrating formative assessment in the revision stage of a process-genre writing classroom

### Students assessing their own writing

Self-assessment in writing has been generally defined as the ability of students to recognize their strengths, weaknesses, and target areas that need correction in their own writing performance, as well as identify ways to make corrections [20, 21]. Several writing scholars stressed the importance of training students to use self-assessment measures in the revision process; among the benefits was the increase in self-regulated learning, self-efficacy, and the quality of writing [22–25]. One of the formative assessment strategies, stu-

dent self-assessment of writing products in the draft or final production stage, was routinely recommended through writing pedagogy [26, 27]. In general, writing theory and research suggest that writing improves when students evaluate the effectiveness of their own writing [28].

However, there has been comparatively little research undertaken on the impact of selfrevision on the quality of academic essays at a macro level, e.g., the global organization of the text and the meaning of the text as a whole. While more prominent problems of EFL student writers were related to ideation and structural cohesion of text, a large part of the research on revision has been focusing on investigating the links between self-revision instructions and quality of microlevel features such as word choice and sentence accuracy [29]. It could also be noticed that, according to a meta-analysis of studies on revision, a focus on micro components such as word accuracy in the revision stage yielded no significant impact on text meaning [30]. Making meaningbased revisions was a cognitively demanding task for both skilled and developing writers because it needed student management of both knowledge of revision, e.g., textual purpose, writer-reader roles, and processes of revision, e.g., what should be revised and how to revise [31]. Berninger et al. [32] further highlight the cognitive complexity of this process, emphasizing the need for instructional support. Despite this, not much relevant literature on the topic was found; for example, the issues of instructing EFL students to revise their own written texts as well as integrating the strategy into a process-genre writing course still need further exploration.

### Students assessing their peers' writing

According to social constructivist theory in teaching writing, teachers have implemented peer assessment to help student writers experience the reader's perspective and engage in peer discussion to improve their writing performance [33–35]. The process of reading others' writing, constructing reactions, posing questions and responses, and receiving and addressing feedback might then help students consciously improve

their own writing skills [36]. Theory of writing suggested that peer review was a rather useful technique to encourage a truly communicative process between the writer and the reader, rather than an artificial and one-way activity in which the teacher reads students' texts mainly for assessment purposes [37]. Therefore, it was expected that peer discussion sessions could motivate students to take a critical view of the global aspects of the text and that, in turn, would support their own writing and revision of the text [34]. In general, a common agreement was that writing improved when students assessed each other's work and provided feedback on what worked and what still needed to be improved [28].

However, there were still a number of questions about conducting an effective peer review of high-challenge writing tasks. In particular, the question of how the activity was integrated in a process genre-based writing course for EFL novice student writers still needed further consideration. There was also a lack of knowledge regarding the inclusion of peer review in the orchestra of writing assessment across the whole course; most studies of writing assessment focused exclusively on comparing effects of peer and self-assessment in one single test, rather than on integrating different assessment forms in a course of essay writing [38, 39].

# Researching the formative assessment integration in process genre-based L2 writing classroom

Both self-assessment and peer assessment have been presumably able to heighten students' engagement in writing, understanding of the subject matter, as well as development of metacognitive strategies related to writing. However, there were also disadvantages relating to enacting formative assessment practices in an EFL writing course. First of all, regarding the utilization of self-assessment to improve student writing skills, there might be particular problems including the possible lack of student motivation from the lonely practice of self-directed improvement in the revision stage, self-overestimation of student ability or exhibition of excessive optimism of

the quality of writing, and concerns about grade inflation, especially in less skilled students [40, 41]. Respecting peer review, research has also raised concerns about subjective responses, lack of student enthusiasm or confidence in giving and receiving feedback, and uninformative student comments [42]. Asian EFL students might also not be ready to express their thoughts, ideas, and judgments directly to their peers, or they might be reluctant to participate in formative assessment sessions because they were probably unsure of the feedback quality from their peers, who often had a similar level of L2 proficiency [43, 44]. As a consequence, most teachers indicated that they used these formative assessment procedures infrequently [28].

The issue of formative assessment in EFL writing instruction in higher education settings should be explored further in depth. Of particular concern was the question of integrating different forms of formative assessment at specific stages of the writing process of EFL undergraduate students. Furthermore, not much was known about the validity and reliability of learner-centered assessment practices in teaching EFL academic writing, for example, to what extent peer and selfgrading reflected the quality of student work, as well as how the practices could promote student writing development. In brief, it was important to examine whether the use of such assessments in the classroom made a meaningful difference in how well students wrote [28].

### C. Hypotheses

The study aimed to investigate the functions of formative assessment in a process genre-based writing course in an EFL college setting. Embedded in Asian L1 patterns of thought and speech, Vietnamese EFL students might experience difficulty with tasks involving the explicit expression of critical thought and judgment in both argumentative writing and learner-centered assessment sessions; they might also expect to receive feedback from experts such as teachers. In addition, in the recent meta-analysis of effects of self- and peer-assessment interventions

on students' academic performance, the question of the mediating causes of inconsistent effects obtained across quasi-experimental and repeated-measures studies remained; further investigations of the mechanisms of implementing the formative assessments, in a single and also in a combined form, were required [45].

Therefore, concerns existed about the effectiveness of peer and self-assessment in EFL writing classrooms, as well as the mechanism of combining the two forms of formative assessments.

Two hypotheses have been formed from the literature review of teaching English writing in the EFL context.

Hypothesis 1: Integration of formative assessments in the revision stage of the writing process would promote the improvement of students' essay quality. However, in the integration of different forms of formative assessment into a process genre-based writing course, the sequence of self-assessment with support from the teacher and then peer-based assessment could yield a more optimal result.

Hypothesis 2: Through training, students' selfratings and peer-ratings of argumentative essays could be reliable with respect to the teacher's ratings of the essays.

### D. Research question

- 1. Do formative assessment practices in the revision stage enhance the quality of argumentative writing of Vietnamese EFL students?
- 2. Are student-generated scores from formative assessment practices reliable, as regards the quality of student-written work?

#### III. RESEARCH METHODS

### A. Research design

To answer the two research questions related to the formative assessment approach in the revision stage of the writing process, a pretest-posttest design with two experimental groups in two experimental panels was used; the two experimental groups switched their positions in experimental panel 2. Pre-test post-test control group design with switching replications was used to examine the effects of the two interventions, including self-assessment and peer assessment [46]. The research methods allowed the researchers to test each intervention in two different experimental panels. In the first panel (panel 1), group 1 received an intervention of peer assessment, while group 2 received self-assessment with teacher support. In the second panel (panel 2), both groups swapped conditions, in which group 1 was in the condition of self-assessment with teacher support, and group 2 worked in the peer assessment condition. With this method, each intervention was tested twice for the within-group effects and the maintenance effect of each intervention from the first to the second panel. However, the replication of effects found in this way might also pose the question about interpreting the results obtained because group 1 and group 2 in the second panel have already experienced the experimental interventions in the first panel. In other words, panel 2 did not yield the pure effects of interventions. For further answer to the dilemma, the interaction effect of condition and time in panel 2 should be examined in later research. In addition, in an educational setting, this design also provided fair learning conditions for the two groups of students; both groups underwent the two processes of peer and self-revision of writing. The mixed method design of SPSS was used to measure the effectiveness of the two groups in the first round of testing and the sequence effect of the whole writing course (see Table 1). The four writing topics across three times of measurement and across conditions were also shown in Table 1; in particular, students were going to write the essays giving their opinions on the following issues: 1) The prohibition of alcoholic drinks, 2) The punishment for youthful shoplifters, 3) Deleting the Facebook account, and 4) Climbing Mount Everest at a young age. Course specifications for peer and self-assessment conditions (group 1 and group 2 in the first panel of the experiment) were provided in Table 2.

### B. Participants

This study was conducted for ten weeks with 83 Vietnamese students majoring in English Studies. The study aimed to improve academic writing practices and outputs of the students, in adherence to the Learning Outcomes 1, 3, and 4 of the undergraduate program of English Studies, including application of the academic English in professional and life tasks; application of the critical thinking skills, creativity, and learning autonomy in language studies; and effective collaboration in work contexts [4]. Most of the participants were from the Mekong Delta in Southern Vietnam, aged 20, and shared similar educational backgrounds and cultural experiences.

C. Procedures of formative assessment in EFL argumentative essay writing classroom: being a peer assessor

### Practice rating session 1 (96 minutes)

28 minutes: Students read and gave holistic scores to three sample texts of average, weak, and strong quality, on the topic of music as a compulsory subject in school, in 30 minutes; they work individually. They used a handout of scoring text provided by the teacher.

30 minutes: Students gave feedback to the three texts in a handout of analytic assessment of components of the essay, including (i) writers' introduction to the issue and their stances on the issue, (ii) variety and quality of reasons and evidential support, and (iii) macro structure of the essays; they worked individually.

30 minutes: Each group of four discussed the scores of the texts and noted down their feedback on the strong points of the text that they thought had the higher score and weak points of the texts with the lower score in the flipcharts. In cases where there were disagreements among group members on the holistic quality of a text, the students could note on the flipchart their different scores for the text.

	Group	Class	$MO_1$	Panel 1	$MO_2$	Panel 2	MO <sub>3</sub>
Random assignment on group level		1.1 (n = 16)	T1		T2		T3
	1	1.2 (n = 32)	T2	E1	Т3	E2	T4
	2	2 (n = 35)	Т3	E2	T4	E1	T1

Table 1: Research design

Note:  $E_1$  = Experimental condition 1 Peer assessment,  $E_2$  = Experimental condition 2 Self-assessment with teacher support;  $MO_{1-2-3}$  = Measurement occasion 1,2,3; T1 = Topic 1; T2 = Topic 2; T3 = Topic 3; T4 = Topic 4

08 minutes per group: Groups presented their flipcharts briefly in class.

### Practice rating session 2 (59 minutes)

Students repeated the procedures of practice rating session 1 by reading two texts of strong quality on the same topic as rating session 1.

Double blind peer rating and revision of text in class (96 minutes).

36 minutes: Each student blindly assessed two peer texts. In total, each text was rated and reviewed by two different peers.

60 minutes: Two reviewers and one writer met to discuss the text they reviewed in 20 minutes, and the writer took notes in a listener paper of good points and points for improvement from the two reviewers.

In brief, in the panel, one student was the rater and reviewer of six texts in sessions 1 and 2, and the blind reviewer of two texts from their classroom peers. It was noted that the texts in sessions 1 and 2 were from the students of the previous EFL argumentative writing courses in the same school setting.

D. Procedures of formative assessment in EFL argumentative essay writing classroom: preparing to be a self-assessor

## Practice rating session 1 (68 minutes per student)

The first and second steps were the same as in the peer assessment group, except for the third step, where students submitted the text feedback form to the teacher and listened to the teacher's perspective of the text quality, lasting around 10–12 minutes per discussion per student in the third step.

### Practice rating session 2 (41 minutes per student)

Students repeated the procedures of the practice rating session 1, in reading two texts of strong quality on the same topic as session 1. Then each student discussed with the teacher globally, more on listening to the teacher's perspective of text quality, which took around five minutes per discussion per student, in the third step.

#### Self-rating of text (43 minutes)

15 minutes: Each student scored each component of their essay and the holistic score of his/her text, using a handout of scoring text provided by the teacher.

18 minutes: Each student gave feedback to their own text in a handout of analytic assessment of components of the essay, including (i) writer's introduction to the issue and his or her stance on the issue, (ii) variety and quality of reasons and evidential support, and (iii) macro structure of the essay.

10–12 minutes per student: The teacher looked at the scoring form and feedback form that the students had completed and gave the students their comments on how clear, convincing, and specific their assessment was.

### E. Collection of student texts

There were a total of 243 texts, of five controversial topics, collected; in particular, 83 from pretest, 78 from posttest 1, and 82 from posttest 2.

Table 2: Course specifications for peer and self-assessment conditions (group 1 and group 2 in the first panel of the experiment)

Time	Phase	Condition				
		Peer assessment (Group 1)	Self-assessment with teacher support (Group 2)			
15'	1	Introduction of argumentation as the foundation for the development of logic and as a practice in daily life, e.g., in the op-ed column of the national newspaper.				
30'	2	Students being introduced to a controversial issue and then reading three sources of materials relating to the issue: a newspaper article, a scientific article, and a documentary providing positive and negative aspects of the issue. The total number of pages in the reading sources for the issue is approximately six pages.				
150°	3	Students writing on the issue, in the form of a 5-paragraph essay (pretest)				
12'	4	Students rating how well they could write the essay with a self-efficacy scale composed of 22 items relating to the different components of writing processes, such as idea generation, text structuring, linguistic performance, and self-evaluation of the essay.				
250°	5.1	Rhetorical consciousness: Sample text analysis of (i) the writer's introduction to the issue and the writer's stance on the issue (iii) variety and quality of reasons and evidential support, and (macro structure of the essay in regard to unity and coherence.				
	5.2	Peer assessment of text quality	Self-assessment of text quality, with teacher support			
120°	6	Students being introduced to the second argumentative topic, reading the materials relating to two opposing sides of the topic, and writing the second text (posttest 1)				
12'	7	Students completing the self-efficacy scale (the same scale as in phase 4)				

Note: Specific illustrations of phase 5.1 about rhetorical consciousness and 5.2 about peer and self-assessment of text are in the following part.

### F. Analyses

### Global quality

Mixed model analysis was used to check the effect of time and condition for panel 1, from (MO1) pretest to (MO2) posttest 1, of the two conditions. Then, to examine if the different sequences of the two groups yielded differences in student text quality, mixed model analysis was also used to test the effects of time and condition, from MO1 (pretest) to MO3 (posttest 2).

### Correlation of teacher and student ratings

The correlation of teachers' scores and students' scores for 83 texts in the pretest moment, 78 in posttest 1 moment, and 82 in posttest 2 was measured with Bivariate correlations. It was necessary to note that in the first panel of the rating pretest, students in condition 1 (48 students) rated their peers' texts blindly, and

students in condition 2 (35 students) rated their own texts. In panel 2, when two groups switched their conditions, at posttest 1 and 2, students in condition 1 rated their own texts while the ones in condition 2 rated the texts of their peers.

### IV. RESULTS AND DISCUSSION

A. The quality of argumentative writing of Vietnamese EFL students when applying formative assessment practices in the revision stage

For the question of how the two forms of formative assessment, peer assessment versus self-assessment, influenced the quality of argumentative writing of Vietnamese EFL students, data from pretest and posttest 1 in the first panel did not show a significant difference between the two groups. However, the difference between the two groups appeared in an analysis with the two

panels and two condition groups from pretest to posttest 2; the effect of time was observed at F(2,237) = 5.674, p = .004, and of condition at F(1,237) = 6.015, p = .015. That meant the two groups improved significantly in global quality of text through the experimental course, from pretest to posttest 2; however, the pattern of development was different, depending on the sequence of interventions. In the second panel, when group 2 switched from self-assessment with teacher support to peer assessment, they gained a significant improvement t (33) = 2.318, p = .027. In general, the sequence of self-assessment with teacher support and then peer assessment would yield a more visible improvement in global quality of student texts. Figure 1 shows the patterns of improvement of the two conditions through the two panels of the experiment. In brief, after the whole course of intervention, both groups made significant improvement from the first to the final measurement moments.

For pedagogical purposes, the results suggested that the series of first self-assessment with teacher support and then peer assessment (the sequence of group 2) was a better model since a significant difference in the effect of the sequence of activities from the two groups was found. In general, the empirical findings supported the theoretical assumptions that writing improved when students evaluate the effectiveness of their own writing and through peer revision. Writers, in the role of readers, might be better aware of what could hinder reader appreciation of text, and therefore improve their writing ability [28, 30]. This finding would also go along with pedagogical suggestions of Graham and Harris that emphasized the importance of regularly engaging students in an adequate number of collaborative writing process activities for improving their autonomy and understanding of genre aspects [47].

### B. The reliability of formative assessment practices

For the question about the reliability of the student ratings of text quality, data from pretest

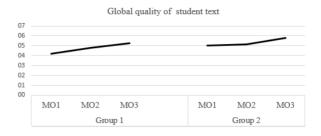


Fig. 1: Global quality of student text of the two groups through three moments of measurement

Note: MO1 = pretest, MO2 = posttest 1, MO3 = posttest 2

and posttest 1 and 2 showed a significant correlation between the two forms of student-based and teacher ratings. In particular, the score the teacher gave a text was similar to the score a student gave themselves or to their peers. The correlations between the teacher's and the students' self-assessed scores through three times of measurement were r(35) = .34, p = .043; r(44) = .4, p = .008; r(47) = .31, p = .034, respectively. The correlations between the scores of the teacher and the ones from peer assessment through three moments of measurement were r(48) = .34, p = .018, r(34) = .41, p = .016, r(35) = .63, p < .001 (Table 3).

This finding on the statistical reliability of student-generated scores in the writing course supported the general conclusion that training students to assess their own and their peers' work against the components of an academic essay helped improve their ratings of writing quality. It also strengthened the assumption that 'self-assessment has been widely used as a costeffective and time-efficient measurement tool' [43, p.4]. The finding also helped shed some light on whether friendship caused bias or inflation of scores, for example, students giving only their friends high ratings and low ratings to those who were not friends [48]. It should be noted that the accuracy of peer ratings was a common concern of educators because there was evidence of rater bias if student raters were not trained in peer evaluations [49]. In general, while giving responses to

student writing was commonly thought of as the function of teachers, the results of the reliability of self- and peer assessment would provide more options for evaluating the quality of student work in the writing classroom.

Table 3: Pearson's correlation coefficient of student rating and teacher rating at three moments of measurement

Variables	Pretest	Posttest1	Posttest2
Teacher-based rating and student-	.288**	.365***	.473***
based rating	N = 83	N = 78	N = 82
Too show and student ask mating	.344*	.396**	.310*
Teacher and student self-rating	N = 35	N = 44	N = 47
T1	.339*	.409*	.629**
Teacher and student peer-rating (blind rating) <sup>1</sup>	N = 48	N = 34	N = 35
Teacher and student peer-rating	.260	.457**	.640**
(blind rating) <sup>2</sup>	N = 45	N = 34	N = 35
	.221	.373*	.570**
First and second student-based rating	N = 45	N = 35	N = 35

Note: \* p < .05, \*\* p < .01, \*\*\* p < .001;

1 first rater of the text;

2 second rater of the text

### V. CONCLUSION AND RECOMMENDATIONS

### A. Conclusion

For the first research question of whether there is a difference between the two formative assessment scaffolds, self- and peer revision, the study concludes that the condition effect will not be statistically significant in the first round of intervention, and there is also no clear development within each group in the first round. However, in combining the two formative assessment practices in a writing course, the effects on the quality of writing will be observed in the EFL students. This conclusion means that for Vietnamese EFL novice students, adequate time is required for practicing both self- and peer assessment for improved quality of text. It contributes to our understanding of how formative assessment in teaching EFL writing may work effectively. Furthermore, scaffolding students to self-assess their work will support them better in the later stage when they are in the peer-assessment activity.

For the second research question of whether student rating of text quality is reliable. The positive correlations between teacher assessments and student peer and self-assessments, through three rounds of measurements, have been observed. In other words, the accuracy of the score a student gives during formative assessment sessions, their own and peers' text is achieved in the experiment. It should also be noted that in the two panels of the study, the students encounter higher-level cognitive-demand writing tasks because the argumentative genre appears not to be embedded in their mother tongue culture. In brief, the conclusion confirms the reliability of student-generated evaluations of essay quality.

#### B. Recommendations

In Vietnam, formative assessment is progressively recognized as a crucial part of the education curriculum of all levels; however, there are still questions about the function, design, and procedure of the approach in foreign language training. The study has provided further evidence on the effectiveness of integrating two forms of peer and self-revision in an EFL writing course over one semester. Further questions on how different forms of formative assessment contribute to EFL students' better writing in higher education, regarding text attributes including topic relevance, content's originality, comprehensibility of language, and appropriate text structure as well as how the formative assessments may influence writing self-efficacy of students in other EFL cultures, should be addressed for a more fully evidence-informed approach to teaching writing.

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