

Theoretical Foundations of an Integrated Four-Component Pedagogical Framework for Military Writing: Combining Authentic Materials, Evidence-Based Writing, Structured Writing, and Precision Writing

Greta Përgjegji¹ and Debora Gjoni^{2*}

Albanian Defense Academy, Faculty of Defence and Security Studies, Department of Foreign Languages and Communication, Albania

*Corresponding Author

Debora Gjoni, Albanian Defense Academy, Faculty of Defence and Security Studies, Department of Foreign Languages and Communication, Albania.

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Abstract

This paper introduces a comprehensive pedagogical framework for Military English for Specific Purposes (ESP) writing instruction, integrating four key components: Authentic Materials, Evidence-Based Writing, Structured Writing, and Precision Writing. Drawing on ESP theory and genre-based pedagogy, the framework is designed to advance professional communication competence within military contexts by conceptualizing writing development as a cyclical, scaffolded process in which authentic input, cognitive processing, organizational structuring, and linguistic refinement interact dynamically. Authentic Materials immerse learners in real-world military texts, fostering engagement with target genres and communicative practices. Evidence-Based Writing emphasizes supporting arguments with credible data and logical reasoning, reflecting the analytical rigor required in military decision-making. Structured Writing guides learners in organizing information coherently for clarity and effectiveness, while Precision Writing focuses on linguistic accuracy and specialized terminology to ensure unambiguous communication. These components are interdependent and iterative, supporting learners through cycles of drafting, feedback, and revision. This approach aligns with contemporary ESP pedagogical trends that emphasize authenticity, learner autonomy, and the integration of language with subject-matter expertise. By systematically combining these four elements, the framework offers educators a practical and theoretically grounded model for instructional interventions that address the communicative demands of military professional discourse and promote effective, contextually relevant communication.

Keywords: Military ESP, Genre-Based Pedagogy, Cognitive Load Theory, Spiral Curriculum, Professional Communication Competence

1. Introduction

English for Specific Purposes (ESP) is pivotal in preparing learners for professional communication in specialized domains [1,2]. In military contexts, writing competence is essential for producing reports, operational briefings, and analytical documents where clarity, precision, and structure are paramount [3]. Yet, learners frequently struggle with organizing information, constructing coherent discourse, and adopting appropriate professional language [4]. To address these challenges, this paper proposes an integrated instructional framework that combines four pedagogical components aimed at supporting writing development in Military ESP contexts [5]. The demands of contemporary military operations require both technical expertise

and advanced proficiency in professional written communication. Military writing is characterized by specialized terminology, strict protocol, and high-stakes communicative environments [6]. Despite growing recognition of these unique challenges, existing pedagogical approaches in Military ESP often lack a comprehensive framework that fully addresses the multifaceted nature of military writing competence [7]. This paper addresses this gap by presenting a theoretically grounded, four-component framework for scaffolding the development of professional communication competence in military contexts. Drawing on ESP theory and genre-based pedagogy, the framework integrates authentic materials, evidence-based writing, structured writing, and precision writing in a dynamic, cyclical process, aligning

instructional practice with the communicative realities of military discourse.

2. Literature Review

ESP pedagogy highlights the necessity of situationally relevant language use [3]. Genre-based approaches emphasize structured discourse, while authentic materials enhance exposure to real-world language use [6]. Evidence-based writing encourages analytical reasoning and information integration, while precision writing prioritizes linguistic accuracy and clarity in professional communication. The field of ESP has long advocated tailoring language instruction to the communicative needs of professional communities. Genre-based pedagogy focuses on analyzing and producing texts that reflect domain-specific conventions and rhetorical strategies [8]. In military contexts, professional writing relies on highly codified genres—such as operation orders, situation reports, and mission debriefings—which demand both linguistic precision and contextual awareness. Authentic materials are essential for bridging classroom learning with real-world communication. In Military ESP, genuine documents and operational scenarios expose learners to specialized terminology, discourse structures, and pragmatic norms. Research underscores the motivational and pragmatic benefits of authenticity, noting its impact on learners' confidence and communicative competence. Evidence-based writing has garnered attention for fostering critical thinking and decision-making skills in ESP. In military settings, the

ability to extract, evaluate, and synthesize operational information is central to effective communication and mission success. Structured writing ensures clarity and efficiency, as military documents often employ standardized formats like BLUF (Bottom Line Up Front) and SITREP (Situation Report), facilitating rapid comprehension and action under time-sensitive conditions. Precision writing is a hallmark of effective military communication, where ambiguity or error can have significant operational consequences. Studies in ESP and professional writing consistently highlight the need for clarity, conciseness, and correctness, especially in high-stakes environments [4]. Despite these insights, there remains a lack of comprehensive frameworks that systematically integrate authenticity, evidence-based reasoning, structural conventions, and linguistic precision in Military ESP writing instruction. This paper addresses this gap by proposing a cyclical, scaffolded model that unifies these elements.

2.1. The Integrated Framework: A Cyclical Model for Military ESP

The proposed framework for Military ESP writing instruction operates as a dynamic, cyclical ecosystem, reflecting the iterative nature of professional military communication [1-3]. The four core components—Authentic Materials, Evidence-Based Writing, Structured Writing, and Precision Writing—are interlocking and mutually reinforcing [6,7]. (See Figure 1).

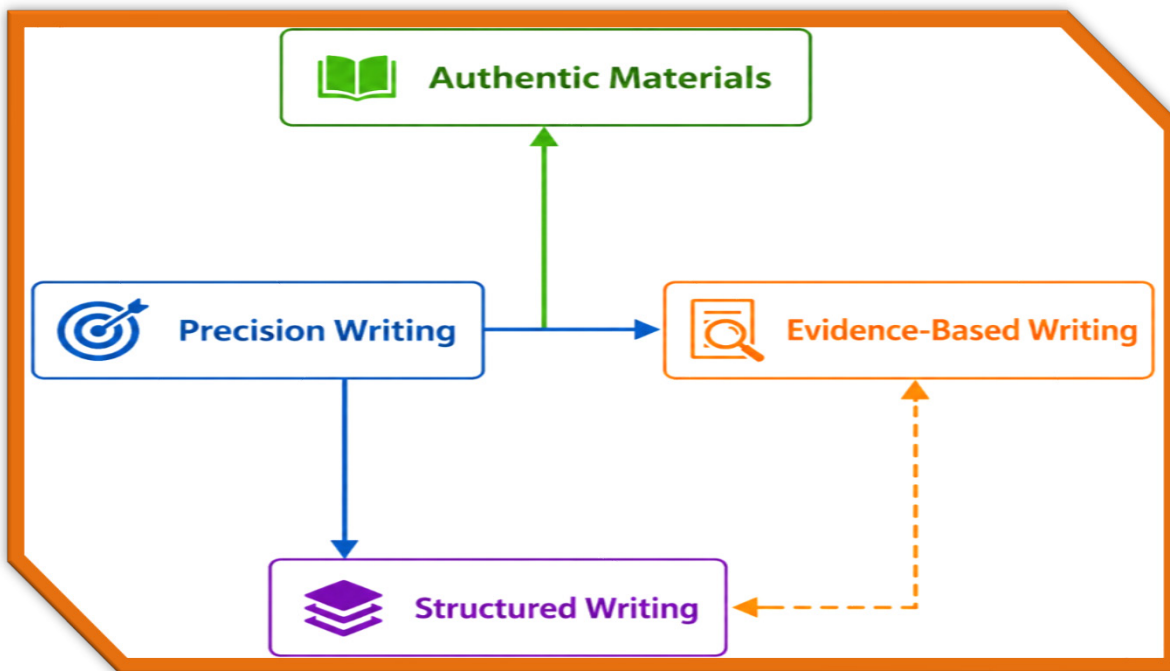


Figure 1: The Four-Component Framework for Military ESP Writing

Rather than treating grammatical accuracy, structural form, and critical content as separate competencies, this model synthesizes them into an integrated learning cycle. Learners progress recursively through each component, with the outputs of one phase serving

as the inputs for the next, facilitating sustained development of professional communication competence. The cycle begins with exposure to authentic military discourse, providing raw linguistic and contextual data [2]. This input demands critical analysis,

requiring learners to weigh evidence and form logical arguments [5]. Arguments must then be organized using standardized military structures and templates [6,9]. Finally, structured arguments are refined through a rigorous process of linguistic precision [3]. This continuous feedback loop enables learners to master precision, analyze increasingly complex authentic materials, and restart the cycle at higher levels of sophistication [10]. This interdependent flow shifts writing instruction from abstract exercises to the development of genuine, mission-ready Professional Communication Competence [1].

2.1.1. Authentic Materials

Authentic materials serve as the foundational input layer, immersing learners in genuine military texts such as operation orders, incident reports, situation reports (SITREP), and mission debriefings. The use of real documents exposes learners to terminology, conventions, and rhetorical structures unique to military discourse, enhancing motivation and contextual relevance [11,12]. This ensures that classroom tasks mirror those in operational environments [13]. Engagement with authentic materials fosters a nuanced understanding of varied genres, document formats, and communicative strategies [10]. Direct analysis of real-world texts builds familiarity with expectations for clarity, brevity, and accuracy. Authentic materials also encourage critical reading skills, as students interpret, extract, and synthesize information from complex documents [14]. By replicating real communication challenges, authentic materials bridge classroom instruction and operational practice, fostering greater confidence and competence [15].

2.1.2. Evidence-Based Writing

Building on authentic inputs, evidence-based writing moves learners from passive consumption to active, analytical production [16]. Students are tasked with extracting, evaluating, and synthesizing operational information, fostering high-order cognitive skills such as constructing logical arguments and defending operational recommendations [17,18]. This phase emphasizes supporting assertions with credible documentation, mirroring real military expectations. It deepens comprehension, distinguishes subjective from objective analysis, and cultivates disciplined habits of citing authoritative sources and adhering to standard operating procedures [19,20]. Moreover, learners are encouraged to anticipate counterarguments and address challenges, fostering accountability and thoroughness [21]. By tethering output to doctrine, regulation, and mission data, this component cultivates the analytical skills needed for credible, actionable communication

[22]. Ultimately, evidence-based writing transforms learners into proactive, mission-relevant communicators.

2.1.3. Structured Writing

Structured writing provides the macro-organizational scaffolding necessary to make content actionable [8]. Military communication requires rapid processing under stress, necessitating predictable, standardized discourse patterns. This component introduces learners to templates and protocols like BLUF and SITREP [23,24]. Systematic exposure to these frameworks helps learners internalize conventions governing information hierarchy and sequencing [6]. Practice with templates enables writers to prioritize key details, highlight decision points, and maintain clarity [25,26]. Mastery of these structures allows for logical sequencing and cross-textual consistency, reducing cognitive load and minimizing miscommunication [27,28]. Structural discipline thus fosters operational efficiency and agility, enabling effective communication even in demanding contexts.

2.2. Precision Writing

Precision writing shifts focus from macro-organization to micro-linguistic optimization, emphasizing clarity, conciseness, and correctness. A recursive process of drafting, peer editing, and feedback helps learners eliminate ambiguity, redundancy, and errors [29,30]. Accuracy at every linguistic level is reinforced, with attention to word choice, punctuation, and sentence structure. In military contexts, imprecision is a liability; ambiguous modifiers or vague references can jeopardize mission safety [31,32]. Precision writing cultivates self-editing habits and error detection, ensuring clarity before dissemination [33]. Targeted instruction on terminology and style ensures documents meet professional expectations [23,34]. The iterative revision process supports excellence and accountability, transforming drafts into polished, mission-ready documents and instilling the reliability required for operational communication.

2.3. The Recursive Loop to Professional Competence

The integrity of this framework relies on its recursive, spiraling nature, with each cycle through the four components building upon the last. Rather than ending at precision writing, the process reinitiates, leveraging improvements in accuracy and organization to facilitate higher-level engagement with complex tasks [35,36]. The framework's recursive, spiraling design enables learners to incrementally build expertise through repeated engagement with each component, resulting in progressively higher levels of professional communication competence (see Figure 2).

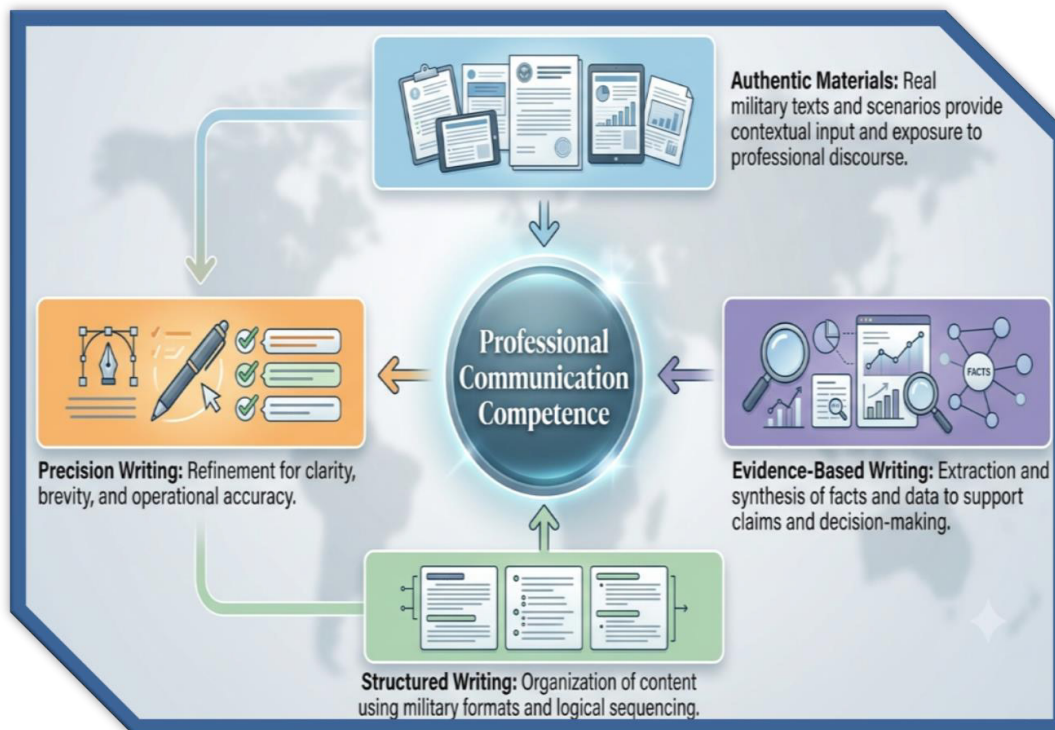


Figure 2: The Recursive Loop to Professional Competence

Linguistic optimization reduces lower-level cognitive load, fostering automatization of structures and conventions [10]. With increased automation, learners can allocate more resources to interpreting and analyzing advanced materials [27]. Each cycle deepens rhetorical flexibility, critical thinking, and genre awareness, advancing communicative repertoire. The continuous feedback loop—drafting, peer review, and instructor input—provides targeted support and accelerates internalization of standards. This spiraling progression fosters the automaticity and adaptive expertise needed for transition from classroom proficiency to field-operational competence [37].

3. Methodology

3.1. Research Design

This study proposes a teaching framework to improve Military ESP writing by combining four key elements: authentic materials, structured writing, evidence-based writing, and precision writing. The model works as a cycle that moves learners from real military texts to producing clear, accurate, and well-supported writing. The framework is applied in three stages: pre-intervention, intervention, and post-intervention. Each stage builds specific writing skills while keeping all four components connected throughout the process.

3.1.1. Phase I: Pre-Intervention

The pre-intervention phase helps determine learners' starting level and prepares them for instruction. Teachers carry out a needs analysis to identify students' strengths, weaknesses, and specific writing needs in military contexts. Students also complete diagnostic writing tasks that assess organization, language

accuracy, use of evidence, and understanding of genre. At the same time, authentic military texts are selected and reviewed. These may include operational reports, intelligence summaries, after-action reviews, NATO documents, briefings, and official correspondence. These materials give students real examples of military writing, helping them become familiar with its language, structure, and style.

The pre-intervention phase therefore performs three functions:

- Establishing baseline writing performance.
- Identifying instructional needs and target competencies.
- Selecting authentic materials that will support subsequent instruction.

3.1.2. Phase II: Intervention

The intervention phase is the central stage of the framework, where learners actively develop their writing skills through four interconnected components. The process begins with the use of authentic military materials, such as reports, briefings, and professional documents, which familiarize learners with real-world military communication and its conventions. In the next step, learners focus on structured writing, using models, templates, and guided activities to organize their ideas clearly and logically. Once they have established a solid structure, they are encouraged to strengthen their texts through evidence-based writing, integrating facts, operational information, and relevant sources to support their arguments and observations. The final component, precision writing, emphasizes revision and editing. At this stage, learners refine their language, improve accuracy, ensure clarity, and use appropriate military terminology to produce professional-quality texts. Rather than functioning as separate steps, these

four components work together throughout the writing process. Learners may return to authentic sources for additional information, reorganize their ideas, add stronger evidence, or revise language for greater precision. In this way, writing becomes a continuous process of drafting, reflecting, and improving, leading to more effective and professionally relevant military communication.

3.1.3. Phase III: Post-Intervention

The post-intervention phase focuses on evaluating learners' progress and consolidating the skills developed during the instructional process. Learners complete writing tasks that require them to apply the four components of the framework: authentic materials, structured organization, evidence-based support, and precise language use. Their written work is assessed using criteria aligned with these components, while feedback and reflection activities help learners recognize their strengths and identify areas for further improvement. This phase provides an opportunity to measure learning outcomes and reinforce effective writing practices for future professional communication. In conclusion the framework works as a repeating cycle rather than a step-by-step process. Authentic materials give learners real context, structured writing helps them organize ideas, evidence-based writing supports stronger arguments, and precision writing improves clarity and accuracy. Together, these elements create a realistic writing environment similar to actual military communication. Through the stages of pre-intervention, intervention, and post-intervention, learners gradually build the ability to produce clear, well-organized, and evidence-based military texts that meet professional standards

3.2. Pedagogical Implications

The four-component framework has significant implications for the design and delivery of Military ESP writing instruction. By integrating authentic materials, evidence-based reasoning, structured organization, and precision editing, the model addresses the complex demands of military communication. For curriculum designers, it offers a blueprint for sequencing instruction and aligning assessment with operational goals [38,39]. Instructors can scaffold learning through increasingly complex tasks, reinforcing skills at each stage [40,41]. Authentic materials and templates familiarize learners with military conventions, while evidence-based and precision writing foster critical thinking and detail-oriented communication [4]. The framework's cyclical, scaffolded design makes it adaptable to varying proficiency levels and learning contexts, supporting both integration into existing courses and new program development [3]. It ultimately supports ESP pedagogy's broader aims by bridging language instruction with specialized professional realities [41].

4. Conclusion

The proposed framework offers a structured and integrative approach to Military ESP writing instruction, synthesizing authenticity, cognition, structure, and precision in a cyclical, scaffolded model. It clarifies pedagogical pathways, supports curriculum development, and fosters continual learner improvement, aligning with current trends in ESP theory and genre-based pedagogy.

Importantly, this paper establishes the theoretical underpinnings and conceptual justification for the four-component framework. A subsequent empirical study will rigorously evaluate its effectiveness and applicability across diverse military training environments. This research will provide data-driven insights into learner outcomes and instructional feasibility, informing further refinement and broader adoption. Additionally, the framework's adaptability invites exploration in other specialized ESP domains, potentially informing best practices in fields ranging from aviation and law enforcement to medical and technical communication. By advancing a comprehensive and adaptable approach to ESP writing instruction, this framework contributes meaningfully to the ongoing evolution of language pedagogy for professional purposes.

Declarations

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Conflict of Interest

The authors declare no conflict of interest.

Author Contributions

Greta Përgjegji contributed to the conception, theoretical framework, and part of the manuscript writing. Debora Gjoni wrote the methodology section and made the critical revision of the manuscript. Both authors reviewed and approved the final version of the article.

AI Usage Statement

Generative AI Tools were used for language editing only.

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