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# CRITERIA, INDICATORS AND LEVELS OF RESEARCH OF FUTURE TEACHERS' READINESS FOR ORGANIZATION OF DIALOGIC TEACHING FOR PRIMARY SCHOOL STUDENTS

KATERYNA FOMIN

**Abstract.** The article substantiates the necessity to study the criterion-content and level structure regarding the formation of readiness of future elementary school teachers to organize dialogic teaching. While creating the program of the experimental work the author has taken into account the basic postulations of psychological and pedagogical science, concerning the problem of the readiness of future specialists to organize dialogic teaching, professionalism of activity and communication and dialogic pedagogical communication. The article offers indicative criteria for studying the readiness of future elementary school teachers to organize dialogic teaching of students: need-motivational, cognitive, social-communicative, reflexive-value and operational-activity, as well as indicators of their detection. The levels of readiness of future elementary school teachers to organize dialogic training are determined - high, medium and low.

The author presents the results of the empirical study of the state of students' readiness for dialogic teaching of primary school students according to the need-motivational criterion. The results of diagnostics of future teachers' motivation of achievement, understanding of their motivational structure of dialogic teaching, internal motivation of their readiness for self-development, resistance to external influences (in particular, results of ranking by the degree of importance of motives of future pedagogical professional activity) are presented. It is proved that the introduction into the process of training of primary school teachers of the author's model allows to change substantially the motivation of future specialists for future professional activity.

**Keywords**: dialogic teaching of primary school students, future teachers, levels of dialogic readiness, criteria and indicators of teacher's professional readiness for dialogic teaching.

### **1.** INTRODUCTION

In today's context of integration into the global educational space, there is a need to introduce innovative approaches to the education of students in general secondary education, especially in elementary school. At present, the issues of interaction between participants of the educational process, pedagogy of partnership, the use of various forms and methods of active teaching of students are very relevant. Therefore, the problem of organizing dialogic teaching in elementary school requires careful study of innovative methods, including foreign experience.Issues of future teachers' training for pedagogical activity were investigated by: O. Antonova, V. Bondar, O. Budnyk, O. Dubaseniuk, N. Kichuk, L. Koval, L. Khomych, H. Vasianovych, M. Yevtukh, I. Ziazun, and others scientists.

Educational dialogue as a way of organizing the educational process was studied by: L. Burman, V. Vyhrushch, L. Vovk, I. Glazkova, L. Kondrashova, V. Morozov, and others. However, the organizational framework for training teachers for the organization of dialogic teaching in elementary school using innovative tools in today's educational challenges (in particular, regarding the implementation of the New Ukrainian School reform) has not been adequately covered in previous research.

We consider future teachers' readiness for the organization of dialogic reaching as a complex dynamic formation, represented by the interaction of subjective (psychological and pedagogical qualities of the future teacher, the level of professional mastery of the future profession and the processes of professional self-development) and objective (educational environment) of reality and specified in theoretically substantiated criteria.

The aim of the articles to substantiate the criteria, indicators and levels of formation of future primary school teachers 'readiness for organizing students' dialogic education; present the results of an empirical study of the need-motivational component of this readiness.

#### 2. ANALYSIS AND DISCUSSION

For the empirical study, the criterion structure of future primary school teachers' readiness to organize dialogic teaching was determined. We proceed from the fact that the criterion (from the Latin criterium – "distinction") is a "measure for determining, evaluating an object, a phenomenon; an indication taken as a basis of classification" [3], "The basis for evaluating, defining or classifying something" [10, p. 465], a necessary and sufficient condition for the manifestation of a particular phenomenon or process, and the criterion approach to studying the level of readiness of future primary school teachers makes it possible to distinguish the levels of formation of this phenomenon at both personal and behavioral levels.

The criteria for the readiness of future teachers to organize dialogic education in primary school are considered as interrelated components, the presence and expression of which forms an appropriate level and can be diagnosed by certain indicators. Based on the classification of researchers [1; 2; 4; 5; 6; 7; 8; 9], we highlight the following criteria for the readiness of future elementary school teachers to organize dialogic teaching: need-motivational, cognitive, social-communicative, reflexive-value and operational-activity. Each of these criteria is a reflection of the holistic process of professional training of a future elementary school teacher, his / her professional development as an innovative specialist in the comprehensive school system, capable of self-actualization, self-motivation, value attitude to professional activity, partnership interaction with all subjects of educational process. The defined criteria are revealed through a system of empirical indicators that reflect the degree-level formation of the future primary school teacher's willingness to organize dialogic teaching.

While creating the program of the experimental work it is necessary to take into account the basic principles of psychological and pedagogical science, which relate to the problem of future specialists' readiness for the organization of dialogic training, professionalism of activity and communication and dialogic pedagogical communication. The article is based on the following guidelines.

First, the scientific achievements of scientists are more focused on clarifying the readiness components of future specialists of different specialties (A. Bystryukova, T. Tykhonova, P. Kharchenko, etc.). Most scholars distinguish interrelated components such as: motivational-willed, cognitive-intellectual, creative-activity, and others in the readiness structure.

Secondly, dialogic teaching is based on the basic principles and principles of dialogic communication, which are covered in scientific literature from the standpoint of certain aspects: socio-philosophical, cultural, methodological, psychological, pedagogical, etc. We have also taken into account the results of research on the nature and specificity of the dialogue revealed in the works of H. Ball, N. Basyuk, I. Beha, V. Vyhrushch, V. Kahn-Kalyk, O. Leontyev, O. Kyrychuk and others. Experimental work to study the readiness of future teachers to organize dialogic education in primary school was organized by us in certain stages, each of which was aimed at identifying certain indicators

of manifestation and solving certain problems with the help of the selected psychodiagnostic tools. The main stages of the experimental work were the following: analytical, synthesis, ascertainment, formative, final and prognostic.

The purpose of the analytical-synthesis stage was to create a system of conceptual basis for the problem under study. The objectives of the ascertaining stage of the study were to empirically study the problem of future primary school teachers' readiness to organize dialogic teaching in real practice of professional training of future specialists of the educational institution by means of the criterion-diagnostic complex.

At the stage of forming experiment, the model of the readiness formation of future primary school teachers the verification took place according to the following criteria: cognitive, social-communicative, need-motivational, reflexive-value and operational-activity. The aim of the final prognostic phase was to develop systematic and methodological recommendations for the introduction of technology for the formation of future primary school teachers 'readiness to organize students' dialogic education.

Selecting the sample of subjects, we took into account the general specificity of the subject under study. The research was carried out at the pedagogical faculties of Vasyl Stefanyk Precarpathian National University, Pereyaslav-Khmelnytsky State Pedagogical University named after Hryhoriy Skovoroda and the Faculty of Pedagogical Education and Social Work at Lesya Ukrainka Eastern European National University. The total sample size is 294 future primary school teachers.

The purpose of the pedagogical experiment was to test the author's model of creating the readiness of future primary school teachers to organize dialogic teaching.

The substantive characteristics of the criteria, indicators and levels of formation of future primary school teachers' readiness for the organization of dialogic teaching and the approximate scheme of the experimental study are presented in Table 1 and 2.

Components	Criteria	Indicators	Diagnostic methods	
Cognitive	Cognitive	Readiness for learning, transmission of information on the nature and specifics of the organization of dialogic teaching in primary school	Author's Questionnaire "Willingness to organize dialogic teaching at primary school"	
Communicative	Social-communicative	Level of need for communication; evaluation of communication and organizational skills; total level of empathy.	Author's questionnaire "Willingness to organize dialogic teaching at primary school"; test "Need for communication" (Y. Orlov, V. Shkurkin, L. Orlova); methodology of assessment of communicative and organizational abilities (KOZ-2); test for professional and pedagogical communication skills (by V. Kan-Kalik, N. Nikandrova); method of diagnostics of the level of empathic abilities (V. Boyko)	
Motivational	Need- motivational	Having needs for self-development, attitudes and sustainable motives for success; domination of intrinsic motivation	Author's questionnaire "Willingness to organize dialogic teaching at primary school"; method of diagnostics of motivation of professional activity (K. Zamfir in modification of A. Rean)	

Reflective-activity	ReflexiveBellexiveValue orientation of the person on interaction, partnership, cooperation; self- development level; professional and pedagogical competence	Author's questionnaire "Willingness to organize dialogic teaching at primary school"; M. Rokych's method "Value orientations"; L. Berezhnov's method of diagnostics of the level of self- development and professional- pedagogical activity
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Tab. 1. Scheme of experimental study of the formation of future primary school teachers' readines	s
for organization of dialogic teaching	

Criteria	Indicators	Quality level characteristic of formation of the criteria of readiness
Cognitive	Awareness of the cognitive sphere of a personality; awareness of the psychological features of the cognitive processes development of the primary school child; ways to influence the cognitive sphere of the primary school child; personal cognitive competence; knowledge of the nature and ways of organizing the primary school development environment	High level – the student possesses a profound knowledge of the theory of didactics; systematic knowledge of general, age and pedagogical, social psychology, is aware of the need for new approaches in the theory and practice of education and training; deep and systematic theoretical knowledge about the peculiarities of the development of the cognitive sphere of the individual; has knowledge and techniques of influencing the cognitive qualities of the student's personality; possesses learning ability and intellectual ability; has a high level of information technology and personal competence Intermediate level – partial knowledge of the theory of didactics; unsystematic knowledge of general, age and pedagogical, social psychology, is aware of the need for new approaches in the theory and practice of teaching and upbringing; partial knowledge about features of development of cognitive sphere of personality; possesses knowledge and techniques of influencing the cognitive sphere of the child; an inherent conscious desire to master the means of influencing the development of the cognitive qualities of the student's personality; possesses learning ability and intellectual ability; has a partial level of information technology and personal competence Low level – available superficial psychological and pedagogical knowledge about cognitive sphere of personality, ignorance of methods of development of cognitive qualities and knowledge of cognitive interest of primary school students, lack of practical skills of positive pedagogical influence on the cognitive sphere of elementary school students; does not have sufficient information technology and personal competence
Social-communicative	Communicative and organizational skills; the need for communication; empathy; professional and pedagogical communication skills	<b>High level</b> – definitely formed skills to establish dialogic forms of interaction with students, combination and application of various interactive forms of education and upbringing of primary school students; adherence to pedagogical tact; willingness to receive feedback; openness to interaction, dynamism and flexibility in implementing organizational forms; empathy-sensory perception of interaction; social-perceptive, communicative, interactive abilities, social adaptability, social lability; ability for transformative activity, innovative perception of reality, desire for search and transformation, dynamism; ability to extra-situational activity; willingness to understand the student, the ability to take his/her side in

Criteria	Indicators	Quality level characteristic of formation of the criteria of readiness
		communication; availability of individual-pedagogical style of
		communication and professional activity
		Intermediate level - partially formed ability to establish dialogic
		forms of interaction with students, ability to traditional didactic
		forms of education and upbringing of primary school students;
		adherence to pedagogical tact; poor willingness to receive feedback;
		rigidity in implementing organizational forms; partially expressed
		social-perceptive, communicative, interactive abilities, social
		adaptability, social lability; poor ability to transform, ability to
		imitate and reproduce.
		Low level - insufficiently formed skills for organizing interactive
		forms of teaching; propensity for monologue speech; lack of
		individual-pedagogical style of communication and professional
		activity; low levels of empathy and reflection; social rigidity; ability
		to reproduce
		High level - the student has a strong internal motivation to achieve;
		high level of readiness for improvement and self-development; the
		desire to learn new forms and methods of organizing dialogic
		teaching; ability to create situations of success in the process of
		pedagogical activity; ability to understand the final result of the
		activity; high goal-setting ability; readiness for continuous
		improvement and self-development
		Intermediate level - the student has a partial internal motivation to
al	Achievement motivation;	achieve; high level of readiness for improvement and self-
ion	understanding the	development; the desire to learn new forms and methods of
vat	motivational structure of	organizing dialogic teaching; ability to create situations of success in
loti	dialogic teaching; intrinsic	pedagogical activity; understands the final result of the activity; high
Need-motivational	motivation for self-	goal-setting ability; readiness for continuous improvement and self-
Nee	development; resistance	development Low level – the student makes erroneous steps in professional
~	to external influences	activity due to insufficient development of volitional qualities; in
		complex emotionally intense situations, he/she is often unable to
		mobilize and focus on the process of achieving a goal; admits the
		manifestation of negative emotions and feelings in the process of
		performing pedagogical functions; no sense of satisfaction from
		professional activity; there is a negative impact of excessive
		emotionality on the quality of teaching; in stressful situations can not
		control his/her own behavior, prone to conflict; is guided only by
		external stimuli in pedagogical activity.
	Awareness of the	High level - availability of deep and systematic theoretical
	importance of dialogic	psychological and pedagogical knowledge and self-knowledge and
ble	teaching; the ability to	self-exploration of one's own experiences and emotional reactions;
Reflexive-valuable	occupy a subject-subject	the presence of the developed skills of self-correction and elimination
-val	position; readiness for	of negative cognitive, emotional, interactive displays of
ive.	self-development;	organizational forms of dialogic teaching; the ability to properly
lexi	perception of participants	perform self-analysis of one's own professional behavior; high
Sef	in the educational process	interest in acquiring practical skills of dialogic self-regulation of
	as carriers of values;	professional activity, sustainable focus on self-improvement and
	psychological and	partnerships in the organization of the educational process; ability to accurately determine the nature of emotional states of participants
	pedagogical skills of self-	accurately determine the nature of emotional states of participants

Criteria	Indicators	Quality level characteristic of formation of the criteria of readiness		
		in the educational process, possession of a set of necessary knowledge and skills to support the positive student's emotions and feelings; skills of humane, tolerant attitude to others; display of kindness, compassion and empathy; formed ability to penetrate into the "inner world" of the student, identify with him or her, mastering the basics of facilitation.		
	knowledge, self-study of their own communicative displays, causes and consequences of the introduction of certain organizational forms of dialogic teaching	Intermediate level - partial inclination for introspection and self- correction of his or her own style of dialogical communication, ability to organize problematic dialogic training; emotional experiences in professional activity; awareness of the need for development and self-improvement of volitional qualities; introspection and analysis of the results of individual pedagogical activity his or her own behavior and emotional manifestations in the pedagogical process; shows sufficient activity and interest in acquiring knowledge, skills and abilities of emotional and volitional regulation of professional activity; strives to improve readiness for professional self- development. Low level - insufficient knowledge and partially formed ability of self-knowledge of his or her own ability to organize dialogic education in elementary school; lack of self-correction skills for personal and professional activity; inability to self-analyze and analyze behavioral manifestations in pedagogical interaction; indifferent attitude to self-education and self-improvement; indifferent, biased attitude towards students, lack of knowledge about individual and psychological features of students, low level (or complete absence) of empathy.		
Operational- activity	Ability to apply innovative and interactive technologies for the organization of dialog learning; understanding of goals, assessment of pedagogical situation, flexibility of decision- making, mastery of pedagogical skills	<ul> <li>High level - possession of innovative and interactive technologies for organization of dialogic training at creative and professional level; high flexibility and predictability in decision making.</li> <li>The middle level is the use of innovative and interactive technologies at the reproductive-adaptive level, insufficient awareness of the possibilities of application and introduction of forms and methods of dialogical learning, partial readiness for self-improvement.</li> <li>Low level - insufficient possession of innovative and interactive technologies for the organization of dialogic training, dependence, passivity in decision-making, poor self-analysis of his or her own professional capabilities.</li> </ul>		

Tab. 2. Criteria, indicators and levels of students' readiness to organize dialogic education in primary school

Let us study in details the status and changes of the levels of formation of motivational readiness component of future teachers to organize dialogic teaching at primary school from the point of view of need-motivational criterion. In the course of experimental work, their motivation, understanding of the motivational structure of dialogic teaching, the intrinsic motivation of their readiness for self-development, resistance to external influences were diagnosted. For this purpose, the author's questionnaire "Willingness to organize dialogic teaching at primary school" and K. Zamfir's method of diagnostics of professional activity motivation (A. Rean's modification) were used.

In particular, students were encouraged to rank the importance of their future pedagogical professional activity skills by significance degree. The data obtained during the questioning process showed that prior to carrying out the procedures that involved the design phase of the experiment, in

both CG (control group) and EG (experimental group), prospective primary school teachers were mainly focused on meeting their own professional needs. This is evidenced by the fact that high ranks have received such motives as "to achieve the desired status in society", "the opportunity to succeed in professional activity", "to satisfy own needs for communication", "being able to be a leader in the educational environment among students"; "awareness of oneself value" (Figs. 1, 2).

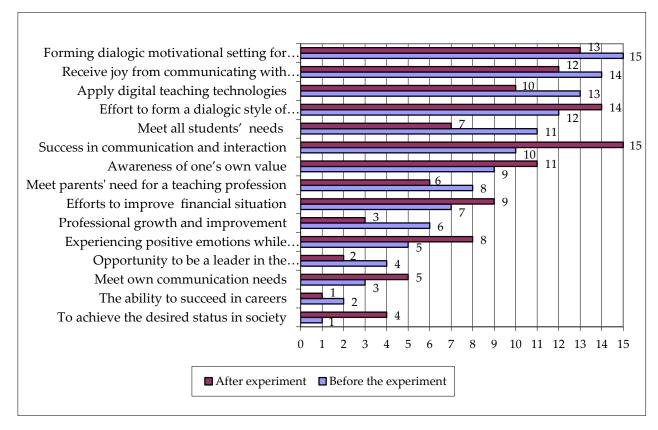


Fig. 1. The results of ranking by CG their motives for future professional activity

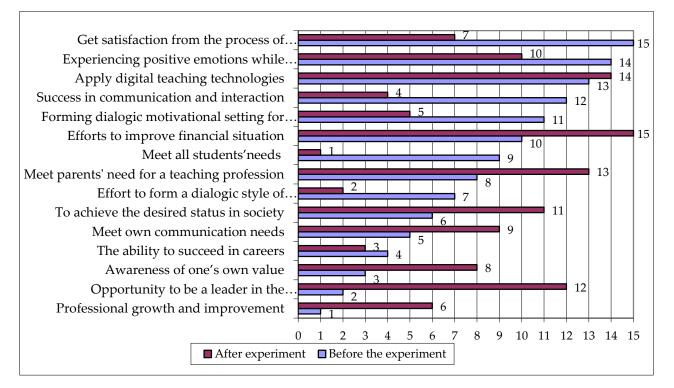


Fig. 2. The results of ranking by EG their motives for future professional activity

After forming experiment for CG respondents, the above mentioned motives for professional activity remained dominant, although there was some regrouping in importance. Therefore, it can be argued that students' attitudes toward self-centered interests have not changed.

In the EG group, after the introduction of the approaches we have developed for training teachers for organization of students' dialogic education, there were significant changes in the students' motivation for professional activity. The highest ranks obtained such motives for professional activity as: "to meet all students' needs", "efforts to form a dialogic style of organization of the educational process", "the opportunity to succeed in professional activity", "success in communication and interaction", "developing a dialogic motivational setting for communication". Thus, in the motivational sphere of EG students there was a shift of emphasis towards understanding the importance of those motives for professional activity, which provide the most optimal development trajectory for the student, which is realized in the process of effective subject-subject interaction of the teacher and students in the process of dialogic teaching.

It should be noted that the motive "the opportunity to succeed in professional activity", which we refer to a group of motives that characterize a high level of student's motivation for future professional activity, occupies a rather important place in the hierarchy of students' motives both in CG (before the experiment - rank 2, after - rank 1) and EG (before the experiment - rank 4, after - rank 3). However, we believe that the nature of such an assessment of the importance of this motive by the students of CG and EG is different. In our opinion, the CG students consider its importance in the context of career growth, achievement of the desired status in society, improvement of financial status, because these motives received high ratings in their ratings both before and after the experiment. After the experiment, EG students assigned these motives grades 11 and 15, respectively. It indicates that they associate the opportunity to succeed in their professional activities with the satisfaction of their own mercantile interests, but with the professional realization of himself or herself as a specialist, a master of his/her field, capable of successfully carrying out the education and upbringing of younger generation.

#### **3.** CONCLUSIONS

In order to study the readiness of future primary school teachers to organize pupils' dialogic teaching, we recommend you to focus on the following assessment criteria and indicators for identifying them:

 need-motivational (the availability of needs for self-development, attitudes and sustainable motives for success; domination of intrinsic motivation);

 – cognitive (readiness for mastering, transmission of information about the features and specifics of organization of dialogic education in primary school);

 – social and communicative (level of need for communication; assessment of communicative and organizational skills; total level of empathy);

reflexive-value and operational-activity (value-oriented personality for interaction, partnership, cooperation; level of self-development; professional-pedagogical competence).

In the study, we determined the level of readiness of future primary school teachers to perform in a particular context - high, medium and low.

After conducting our pedagogical experiment, a statistical evaluation of the revealed changes in the CG and EG students 'distributions by the need-motivational criterion of future teachers' readiness for organizing dialogic teaching of elementary school students showed that, that the changes that occurred in the CG are random and in the EG are statistically reliable. (Table 3).

Indicator	CG and EG before the experiment	CG and EG after the experiment	CG before and after the experiment	EG before and after the experiment
Self-assessment of motives for future professional activity	1,393	6,192	0,886	14,972

Tab. 3. Empirical values of the criterion  $\chi^2$  calculated on the basis of data from the distribution of future primary school teachers by the level of formation of the indicator of vocational training for the organization of students' dialogical education

\* Differences in distributions are considered statistically reliable if the ratio is:

$$\chi_e^2 > \chi_k^2$$

This confirms the effectiveness of the experimental work.

Thus, the introduction of the suggested model into practice allows to change the motivation of future specialists for future professional activity significantly. In our opinion, this kind of motivation will allow them to successfully put into practice the basic principles of students' dialogic teaching, and, that will allow them to introduce the modern paradigm of education and upbringing of the younger generation into the New Ukrainian School.

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Address: Kateryna Fomin, Vasyl Stefanyk Precarpathian National University, 57, Shevchenko Str., Ivano-Frankivsk, 76018, Ukraine.

E-mail: aerosweett@ukr.net

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Фомін Катерина. Критерії, показники та рівні дослідження готовності майбутніх учителів до організації діалогічного навчання молодших школярів. Журнал Прикарпатського університету імені Василя Стефаника, 7 (1) (2020), 112–121.

У статті обгрунтовано необхідність дослідження критеріально-змістової та рівневої структури щодо сформованості готовності майбутніх учителів початкової школи до організації діалогічного навчання. У розробці програми експериментальної роботи автором ураховано основні положення психолого-педагогічної науки, що стосуються проблеми готовності майбутніх фахівців до організації діалогічного навчання, професіоналізму діяльності і спілкування та діалогового педагогічного спілкування. У статті запропоновано орієнтовні критерії вивчення готовності майбутніх учителів початкової школи до організації діалогічного навчання учнів: потребово-мотиваційний, когнітивно-пізнавальний, соціально-комунікативний, рефлексивно-ціннісний та операційно-діяльнісний, а також показники їх виявлення. Визначено рівні готовності майбутніх учителів початкової школи до організації діалогічного навчання – високий, середній і низький.

Автором представлено результати емпіричного дослідження стану сформованості готовності студентів до діалогічного навчання молодших школярів за потребово-мотиваційним критерієм. Подано результати діагностики сформованості в майбутніх учителів мотивації досягнень, розуміння ними мотиваційної структури діалогічного навчання, внутрішньої мотивації їх готовності до саморозвитку, стійкості до зовнішніх впливів (зокрема, результати ранжування за ступенем значущості мотивів майбутньої педагогічної професійної діяльності). Доведено, що впровадження в практику підготовки вчителя початкової школи авторської моделі дозволяє істотно змінювати мотивацію майбутніх фахівців до майбутньої професійної діяльності.

Ключові слова: діалогічне навчання молодших школярів, майбутні вчителі, рівні готовності до діалогічного навчання, критерії та показники професійної готовності вчителя до діалогічного навчання.