

ABSTRACT

of the dissertation work by Kataev Yerdan Sovetovich on the topic "Formation of research competencies of a teacher of a secondary school in the context of updating the content of education: a hermeneutical-phenomenological approach", submitted for the degree of Doctor of Philosophy (PhD) in the specialty "6D010300 – Pedagogy and Psychology"

Relevance of the research topic. The globalization of geopolitical contradictions, socio-economic changes, the dynamics of teacher requirements, the need to introduce teachers to science are becoming an integral part of the teacher of a modern school. The State Program for the Development of Education and Science of the Republic of Kazakhstan for 2020-2025 assumes significant changes in both the content and forms of organization of the educational process in schools. Research activity, as a creative self-expression of a teacher's personality, should be based on his value orientations, filling this activity with personal meaning. They become important: the ability of a teacher to determine cause-and-effect relationships in a pedagogical situation; the ability to interpret and explain their essence to understand them more deeply. The teacher's use of philosophical, general scientific levels of methodology will create a professional research environment.

There are a few modern studies in science that reveal the nature of a teacher's research activity at the philosophical, general scientific and pedagogical levels of methodological knowledge. At the philosophical level, research on the application of modern hermeneutic phenomenology in the learning process is noted in the works of Van Manen (van Manen M.), L. Finlay (Finlay, L.), N. Friesen (Friesen N.), and others; with an emphasis on psychology, hermeneutic phenomenology is considered in the works of N. P. Busygina. The basics of pedagogical hermeneutics as the interpretation and interpretation of the studied, recorded in the texts of reflections, were studied by A. F. Zakirova. The development of a teacher's research competencies in the Russian innovative educational environment is studied by T. Y. Lomakina, S. V. Dzyubenko.

Research topic: Formation of research competencies of a secondary school teacher in the context of the updated content of education: a hermeneutical-phenomenological approach.

The purpose of the study: Development and theoretical substantiation of a model for the formation of research competencies of a teacher in the context of the updated content of education and experimental verification of its effectiveness.

The object of the study: Advanced training of teachers of secondary schools in the context of the implementation of the approaches of Lesson Study and Action Research (hermeneutical-phenomenological approach).

The subject of the study: Formation of research competencies of a secondary school teacher in the context of the implementation of Lesson Study and Action Research approaches.

Research objectives:

1) to identify the functions of the teacher's research activity based on the analysis of the methodology of the hermeneutical-phenomenological approach.

2) to reveal the features of the modern educational process for the implementation of the Lesson Study approach and to identify the main characteristics of organizational and pedagogical conditions for the effective formation of research skills and abilities of a teacher.

3) clarify the essence of the concept of "research competencies of a teacher at a secondary school" in the context of the updated content of education and determine their components.

4) to determine the basic principles of the formation of research competencies of a teacher at a general education school, to develop and theoretically substantiate a model for the formation of research competencies of a teacher in the context of an updated educational content based on a hermeneutical-phenomenological approach.

5) to determine the content, forms and methods of work on the formation of research competencies of a teacher at a secondary school in the context of the updated content of education.

6) to test, based on an experiment, the effectiveness of implementing a model for the formation of a teacher's research competencies.

Scientific novelty of the research:

1. Based on the methodology of the hermeneutical-phenomenological approach, the functions of the teacher's research activity (reflective, predictive, introspective, design, interactive) are highlighted;

2. The main characteristics of organizational and pedagogical conditions as factors of effective formation of research skills of a teacher are revealed;

3. The essence of the concept of "research competencies of a teacher of a secondary school" in the context of the updated content of education is defined and their components are determined;

4. The model of formation of the teacher's research competencies in the context of the updated content of education based on the hermeneutical-phenomenological approach is substantiated;

5. A model and technology for the formation of research competencies of a teacher of a secondary school have been developed.

The practical significance of the research lies in the fact that:

- a program of courses for teachers has been developed aimed at forming the research competencies of a teacher of a general education school, including: the structure of the course, types and content of independent and group forms of work;
- a "Map of identifying interests and needs for educational motivation" has been developed; "A map for diagnosing learning problems", "A map for solving pedagogical situations", "A map for diagnosing learning problems during a Lesson Study", "Mentoring triangles of professional interaction of school teachers";
- educational manuals have been developed and published: "Leadership and management. School culture", "Formation of research competencies of a secondary school teacher in the context of updating the content of education: a hermeneutical-phenomenological approach", "Dynamics of approaches to inclusive education", "Development of research competencies of teachers in a combination of Lesson Study and Action Research approaches in the educational process";
- the research materials will be useful for conducting advanced training courses, as well as a diagnostic resource in the process of certification of teaching staff and assignment of qualification categories.
- the developed model can serve as a route map of academic career growth of a teacher of a secondary school.

Provisions to be defended:

- 1) The functions of the teacher's research activity, highlighted on the basis of the methodology of the hermeneutical-phenomenological approach;
- 2) The features of the modern educational process and the main characteristics of the organizational and pedagogical conditions for the formation of research skills and abilities of a teacher;
- 3) The essence of the concept of "research competencies of a teacher of a secondary school" in the context of the updated content of education";
- 4) A model for the formation of research competencies of a secondary school teacher in the context of an updated educational content (in the aspect of a hermeneutical-phenomenological approach);
- 5) The results of experimental work on the formation of research competencies of a teacher of a secondary school in the context of the updated content of education.

Publications on the topic of the dissertation:

Based on the materials of the dissertation, 11 scientific papers were published, including 3 articles in journals recommended by the Committee for Control in the

field of education and Science of the Ministry of Education and Science of the Republic of Kazakhstan, 2 articles in indexed journals of the Scopus database, 6 publications in collections with international participation:

International Scientific and Practical Conference "Science and Education in the Global world", (Uralsk, 2017);

III International Scientific and Practical Conference "Philosophical and pedagogical problems of continuing education" (Mogilev, 2018);

XI International Scientific and Practical Conference of the Autonomous Organization of Education Nazarbayev Intellectual Schools "Teachers changing the world of schools", (Nur Sultan, 2019);

International Scientific and Practical Conference "Current Research and Prospects for Cooperation on the Eurasian continent" (Prague, 2019);

IV International Scientific and practical Conference "Philosophical and pedagogical problems of continuing education", (Mogilev, 2020);

At webinars on the topic "Expanding the possibilities of Lesson Study to improve teaching methods, curriculum, student achievement and the effectiveness of the education system" by the expert of the University of Cambridge Council on International Assessment and Education, P. Dudley (Cambridge, 2019);

Scientific journal "Vestnik" No. 2 2020 of the S. Toraighyrov PSU;

Scientific journal "Vestnik" No. 1 2020 of the M. Utemisov WKSU;

Scientific journal "Bulletin" No. 1 2023 of the S. Toraighyrov PSU;

Educ. Pesqui., São Paulo, v. 49, e257253, 2023;

International Journal of Education in Mathematics, Science, and Technology (IJEMST), 11(5), 1184-1203.

The practical implementation of the research results was carried out during the educational process in secondary schools that participated in the experiment directly during the implementation of the Lesson Study, using the developed curricula, methodological manuals, as well as through classroom course events and webinars.

Research methods. Pedagogical modeling formed the basis of theoretical research methods, and pedagogical questioning and testing, the method of expert assessments, pedagogical observation and interviewing, methods of essay analysis were used as empirical ones. Methods of mathematical statistics were used to process the results of experimental work, and an online computer program for statistical data processing SPSS was used.

The criteria-based assessment tools included: the proforma developed by the authors for determining the level of development of research competencies; an adapted methodology for self-assessment of a teacher's research skills (S. I. Bryzgalova); an adapted diagnosis of motives for creative growth of teachers (R. H. Shakurov), as well as a methodology for determining the level of development of reflexivity (A.V. Karpov). The levels of formation of research competencies are characterized as creative, heuristic, basic, and reproductive.

The results of experimental work. Based on the results of the formative experiment. In the control group, the proportion of teachers working at the "creative" level increased by only 1.6%, at the "heuristic" level – by 7.1%, at the "reproductive" level – decreased by 7.4%. While in the experimental group, creatively working teachers made up 26.7%, which is 10% higher than during the ascertaining stage, 16% of teachers from lower levels moved to the "heuristic" level.

The next important result is that the work done has given impetus to research activities. Currently, the authors of the dissertation are working with teachers of schools that participated in the experiment with coverage of 70% of teachers of these schools. In addition, 2 more schools of the city of Uralsk (No. 20, No. 6), as well as a group of teachers of the pedagogical college named after J. Dosmukhamedov, joined our work.

Nevertheless, it should be noted that the activity of teachers to participate in the study of their own practice still largely depends on how much the head of the school sees in this the strategic potential for the development of the team and the school as a whole.

The content and structure of the dissertation. The dissertation consistently reflects the stages of the work done to form the research competencies of a secondary school teacher in accordance with the developed model. The content of the dissertation consists of three sections, which structurally set out the provisions of the formation of research competencies of a teacher of a secondary school, as well as, from the conclusion and the list of sources used, appendices.

The work is made on 177 pages of typewritten text, includes 35 figures and 41 tables. The list of sources used contains 166 titles, including 19 in a foreign language.