

**ANNOTATION**  
**to the dissertation of Imankulova Lyaylya**  
**for the degree of Doctor of Philosophy (PhD)**  
**in the specialty 6D012000 - "Vocational education"**

**Research topic:** Scientific and pedagogical foundations for the formation of the research function of future teachers of vocational education.

**Purpose of the study:** it consists in the theoretical substantiation of the formation process of the research function of future teachers of vocational training and experimental verification of the effectiveness of the proposed methodological system.

**Research objectives:**

1. Determine the theoretical and methodological foundations for the formation of the research function of future teachers of vocational education.

2. Develop a structural model for the formation of the research function of future teachers of vocational education.

3. Determine the pedagogical conditions for the formation of the research function of future teachers of vocational education.

4. Develop a methodological system for the formation of the research functions of future teachers of vocational education in the educational process of the university and test its effectiveness experimentally.

**Research methods:**

- theoretical methods (study and analysis of philosophical, social, psychological, pedagogical, educational literature, dissertations, scientific periodicals, legal documents on the research problem; examination, comparison, modeling);

- empirical methods (targeted observation, survey, interview, testing, selective trial diagnostic research, ascertaining, forming, controlling types of experiment, psychological and pedagogical methods of diagnostics, mathematical and statistical data processing, monitoring).

**The main provisions for defense:**

1. The research function of vocational education teachers is characterized by competence in solving urgent professional educational problems, conscious decision-making in the organization of research processes based on the choice of effective methods for conducting educational work, updating its content, principles and organizational forms.

Understanding the process of forming the research function of future teachers allowed us to draw the following conclusions: the research function of future teachers of vocational educational is implemented in a complex of personality-oriented, acmeological, axiological, qualimetric, cultural, synergistic, systemic, activity-based, holistic and competency-based approaches.

The research function of future teachers is determined by the totality of personal qualities, knowledge, abilities and skills acquired in the process of university education, and the willingness to use them in future professional activities, using interactive technologies for professional self-development.

2. The model for the formation of the research function of the future teacher of vocational education provides for a close relationship between the motivational, cognitive-content, activity, criteria-reflexive components in accordance with the goals and objectives, methodological principles, content and indicators of the formation of the research function of future teachers of vocational education.

3. The formation of the research function of the future teacher of vocational education is ensured by the implementation of the following pedagogical conditions: increasing the motivation of future teachers of vocational education to master the research function; identification of research skills (diagnostic, design, organizational, activity, analytical, socialization); creation and implementation of the content of the elective course "Scientific research in vocational education", which ensures the research function formation of future teachers of vocational training; adaptation of methods, forms and means of teaching students to form a research function; involvement of future teachers of vocational education in the implementation of research, scientific production, innovation activities and the assessment of its quality.

4. Formation of the research function of future teachers of vocational education in the educational process of the university is carried out by introducing the proposed methodological system into practice.

**The main results of the study:**

- the theoretical and methodological foundations for the research function formation of future teachers of vocational education are determined;

- a structural model for the formation of the research function of future teachers of vocational education has been developed;

- the pedagogical conditions for the formation of the research function of future teachers of vocational education were identified;

- the effectiveness of the methodological system for the formation of research competence of future teachers of vocational education in the educational process of the university based on the results of experimental work has been proved.

The novelty and significance of the results obtained are ensured by the correspondence of the content of the study to the scientific apparatus; the reliability of the information received, the effectiveness of the initial and final indicators of results, their comprehensive implementation in the educational process.

The validity of the first scientific result is determined by the clarification of the concepts "research function of vocational education teachers", "the formation of the research function of future teachers is achieved by analyzing scientific works, supplementing their own definition given by the researcher; substantiation of methodological positions (personality-oriented, acmeological, axiological, qualimetric, cultural, synergistic, systemic, activity-based, holistic, competence-based)".

The validity of the second scientific result is determined by the development of a structural model for the formation of the research function of future teachers of vocational education, consisting of components, indicators, content and methods, means and required levels.

The validity of the third scientific result is determined by the specification of the pedagogical conditions in which the methodological system for the formation of the research function of the future teacher of vocational education is proposed.

The validity of the fourth scientific result is confirmed by the preparation of the program of the elective course "Scientific research in vocational education" and the methodological complex of the discipline, the introduction into practice of the electronic textbook "Fundamentals of scientific research in the system of vocational education".

**Compliance with the science or state programs development directions:** in the annual Messages of the President of the Republic of Kazakhstan to the people of Kazakhstan, in the document "Strategy "Kazakhstan - 2050" - a new political course of an established state" it is indicated that "the youth of our state is obliged to study, master modern sciences - knowledge, acquire new skills, skillfully use science and technology in everyday life. In addition, in the Address of the Head of State Kassym-Jomart Tokayev to the people of Kazakhstan "Constructive public dialogue is the basis of stability and prosperity of Kazakhstan", it is noted that "the situation in the field of science requires special attention." "We cannot ensure the development of our country without science," he said.

Therefore, the actual issue today is the influence of innovative patterns and trends in the development of modern production and society, the need to form the research function of vocational education teachers. In particular, there is a need for a theoretical substantiation of the formation process of the research function of future teachers of vocational education and the definition of a methodological system.

**Description of the contribution of the doctoral student to the preparation of each edition:**

Publications included in the Scopus database - 2 articles:

1) «Case technology in the process of management of student's scientific-research activity». Journal of Intellectual Disability - Diagnosis and Treatment, Volume 8, No. 3 (2020): Canada P.298-306. DOI: <https://doi.org/10.6000/2292-2598.2020.08.03.5> (Co-authored by G.Karatayev, F.Babakhanov, G.Makhmudov, S.Zholdasbekova 60 %).

2) Formation of Future Teachers Professional Competence on the Bases of Modern Technologies Review Of International Geographical Education ISSN: 2146-0353 • © Rigeo • 11(5), SPRING, 2021 <https://rigeo.org/view/?id=17> (Co-authored by Rakhmetova N., Tastanbek D., Zholdasbekova S., Kalymova A., Matay B. 60 %).

4 articles published in publications recommended by the Committee for Quality Assurance in Education and Science of the Republic of Kazakhstan:

1) Possibilities for the formation of research activities of future teachers of vocational education // Bulletin of the Eurasian National University. L. N. Gumilyov. - Astana, - 2018. -No.2(123)/2018. ISSN 2616-68. -pp.78-83. (Co-authored by Zholdasbekova S.A. 70%).

2) Improving the project training of future specialists through research functions // KNPU im. Abai, Bulletin. - Almaty, - 2019. - No.4(64). -pp.236-241. ISSN 1728-5496. (Co-authored by Zholdasbekova S.A., Tastanbek D.M. 70%).

- 3) Research abilities of students as a categorical concept and factor of personal development. // KazNPU named after Abai. Bulletin. Series "Pedagogical Sciences". -Almaty, - 2018. -No.2(58). -pp.236-241. ISSN 1728-5496 (Co-authored by Zholdasbekova S.A., Seydina M.Z., Mokrousova A.E., 60%).
- 4) Didactic conditions for the formation of research abilities of students in the lessons of artistic work. // International popular science magazine "Kazakhstannyn gylymy men omiri - Science and life of Kazakhstan" - Astana, - 2019. - No. 1 (73). - pp.170-174. ISSN 2073-333X. (Co-authored by Zholdasbekova S.A., Kabyzbekova Z.B., 80%).

15 articles were published at domestic international conferences:

- 1) Pedagogical foundations for the formation of the research function of future teachers of vocational training at the university // Actual problems of technological education: school, college, university. Materials of the V International Correspondence Scientific and Practical Conference, - Mozyr, - 2017, - pp.43-44. (Co-authored by Zholdasbekova S.A., 80%).
- 2) Formation of research abilities of future teachers // Materials of the international scientific and practical Internet conference "Trends and prospects for the development of science and education in the context of globalization" collection of scientific papers. –Pereyaslav, -2020. -pp.156-159. (Co-authored by Zholdasbekova S., Baltabekova A., Madieva D.70%).
- 3) Formation of research activities of future specialists based on traditional crafts in practical classes// Yüzyılda Türk Sanatı: Meseleler ve Çözüm Önerileri Milletlerarası Sempozyum, Sergi, Konser, Çalıştay etkinliğine.-Kostamonu,-2018.-pp.245-252. (Co-authored by S.Zholdasbekova, O.Zaimogly, 80%).
- 4) Formation of research competence of future teachers of vocational training // Innovative approaches in the development of science and education. – Bratislava, -2017, -pp.126-135. (Co-authored by Zholdasbekova S.A., 80%).
- 5) Opportunities for the formation of research competencies of future specialists through independent work // International scientific and practical conference dedicated to the 90th anniversary of the Kazakh National Pedagogical University named after Abay "Modern art and education, in the context of domestic and world pedagogical education: problems, trends and prospects". - Almaty, - 2018. -pp.255-258. (Co-authored by Rakhmetova N.B., Tastanbek D.M. 80%).
- 6) Ways of formation of research skills of future specialists in the system of vocational education // International scientific and practical conference "Auezov readings - 16: "The fourth industrial revolution: the possibilities of modernizing Kazakhstan in science, education and culture" SKSU. -Shymkent, -2018. –pp.30-33. (Co-authored by Zholdasbekova S.A. 80%).
- 7) Bilimsel araştırma faaliyeti için geleceğe yönelik öğretmen eğitimi // V International Symposium on Turkic World Studies of Kazakh National Women's Teacher Training University. - Almaty, -2018. -pp.605-610. (Co-authored by Omer Zaimogly, 80 %).
- 8) Opportunities to improve the research function of students in the system of

- continuous professional pedagogical education // Materials of the International Forum of the Eurasian Association of Pedagogical Universities "Problems of continuous pedagogical education: traditions and innovations". KNPNU named after Abay, Volume 2. -Almaty, -2018. -pp.80-83. (Co-authored by Zholdasbekova S.A. 80%).
- 9) Scientific and methodological support of experimental work on the formation of the research functions of future teachers // V International scientific practical conference «Industrial technologies and engineering» dedicated to the 75<sup>th</sup> anniversary of M.Auezov south Kazakhstan state university and 90<sup>th</sup> anniversary of academician Sultan Tashirbayevich Suleimenov holding within 4.0 industrial revolution: - ICITE - 2018. – Shymkent, 2018. - pp.200-206. (Co-authored by: S.Zholdasbekova, O.Zaimogly, D.Madiyeva).
  - 10) The use of educational technologies in the formation of research abilities of future specialists in vocational education // Proceedings of the International Scientific and Practical Conference "Modernization of the Education System: Trends, Problems and Prospects". Kazakh Ablai Khan University of International Relations and World Languages. - Almaty, -2019. -pp.326-330. (Co-authored by Zholdasbekova S.A., Omer Zaimoglu 70%).
  - 11) The essence and structure of the training of future teachers of vocational education for research activities and their role in modern education // Materials of the international scientific-practical conference "Methodology of andragogical education in the conditions of the third modernization of Kazakhstan: trends, problems, solutions." - Nur-Sultan, -2020. -pp.275-279. (Co-authored by Zholdasbekova S.A. 80%).
  - 12) Methods for the formation of research functions of future specialists based on information and computer technologies // "Education, science and technology: problems and prospects" collection of materials of the VI international scientific and practical conference of graduate students, undergraduates and students dedicated to the 75th anniversary of the victory in the Great Patriotic war. -Sterlitamak, RF, Aktobe, RK, Sterlitamak - Aktobe, -2020. –pp.58-60. (Co-authored by Zholdasbekova S.A., 80%).