

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN

KARAGANDA UNIVERSITY NAMED AFTER ACADEMICIAN E.A.BUKETOV

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«19» 05 2023 y.

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named after academician E.A. Buketov  
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«20» 05 2023 y.

**EDUCATIONAL PROGRAM**

**in the direction of training «7M014-Training of teachers with subject specialization of general development»**

«7M01401- Vocational Education»

Level: Master's Degree

Degree: Master of Pedagogical Sciences in the educational program

«7M01401- Vocational Education»

Karagandy, 2023

**The educational program «7M01401 Vocational education» was developed on the basis of:**

Law of the Republic of Kazakhstan dated July 27, 2007 No. 319-III "On Education";

Law of the Republic of Kazakhstan dated July 11, 1997 No. 151-I. "On languages in the Republic of Kazakhstan";

State obligatory standard of higher education dated August 31, 2018 No. 604;

National Qualifications Framework dated March 16, 2016 by the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations;

Order of the Ministry of Education and Science of the Republic of Kazakhstan “On approval of the Rules for organizing the educational process on credit technology” dated October 2, 2018 No. 152;

Classifier of areas for training personnel with higher and LOstgraduate education dated October 13, 2018. No. 569;

Vocational standard "Teacher" (Appendix to the order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated June 8, 2017 No. 133).

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1. **Code and name of the educational program:** «7M014 Vocational Education»
2. **Code and classification of the field of education, areas of training:** 6B01 Pedagogical sciences
3. **Group of educational programs:** M008
4. **Volume of credits:** 120
5. **Form of study:** Full-time
6. **Teaching language:** Russian, Kazakh
7. **Awarded degree:** Master of pedagogical sciences
8. **Type of OP:** current
9. **ISCED level:** ISCED level - 7
10. **NQF level:** 7
11. **ORC level:** 7
12. **Distinctive features of the OP:**  
**Partner university -**
13. **Application number for the license for the direction of personnel training:** KZ83LAA00018495 (16).
14. **Name of the accreditation body and the period of validity of the EP accreditation:** certificate SA-A No. 0156/5 IQAA agency dated 05/27/2019. Valid until 05/24/2024
15. **The purpose of the EP:** the preparation of competitive masters of pedagogical sciences with the appropriate personal and Vocational competencies for the implementation of pedagogical, educational, industrial and organizational and methodological activities in the systems of secondary general, technical and vocational, higher education, as well as, based on the principles of scientific character, to be adaptive to rapidly changing needs of education, industry and society.
16. **Qualification characteristics of the graduate:**
  - a) List of graduate positions: graduates can acquire Vocational competencies in the following professions: "Teacher of special disciplines (by industry), master of industrial training, teacher of additional education (training and retraining of groups of working professions) in the system of technical and vocational education, higher education" , according to Vocational standards approved by the Order of the Deputy Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" No. 133 dated June 8, 2017.
  - b) The scope and objects of Vocational activity of the graduate:
    - higher educational institutions;
    - pedagogical colleges;
    - system of additional education (teacher in universities and pedagogical colleges; employee of pedagogical scientific institutions)
  - c) Types of Vocational activity of the graduate:
    - educational (educational, pedagogical);
    - research;
    - organizational and managerial;
    - production and management;
    - design;

- cultural and educational.

d) Functions of the Vocational activity of the graduate:

- pedagogical: teaches to acquire knowledge independently, designs training sessions taking into account the linguistic needs and requests of students, uses new teaching technologies, including ICT, etc.; attaches students to the system of social values, observes pedagogical tact, the rules of pedagogical ethics, shows respect for the personality of students, builds an educational process taking into account the national priorities of Kazakhstan, etc.

- research: studies the level of mastering the content of education by students, explores the educational environment, uses the results of diagnosing the individual characteristics of students;

- social and communicative: interacts with the Vocational community and with all interested parties in education, initiates innovative ideas that unite education stakeholders, etc.

- methodical: provides methodological support for the educational process, plans to improve their skills, determines methods and techniques, develops educational materials in accordance with the set objectives of the classes, etc.

### Formulation of learning outcomes based on competencies

Type of competencies	Code of learning outcomes	Learning Outcome (according to Bloom's Taxonomy)
1. Behavioral skills and personal qualities: (Softskills)	LO 1	It applies knowledge about society as an integral system and a person, the role of spiritual processes in modern society, the legal interests of the parties in the field of protecting the rights of individuals and legal entities, the economic and social conditions for doing business, the impact of harmful and dangerous factors on a person and the natural environment.
	LO 2	Approves in his Vocational activity his own civic LOsition on the priorities of competitiveness, pragmatism, mutual understanding, tolerance and democratic values of modern society
2. Digital competencies: (Digitalskills):	LO 3	Performs design and engineering calculations for educational and industrial facilities, including using modern ICT, solves engineering problems
	LO 4	Carries out the pedagogical process in the systems of secondary general, TVET, additional Vocational education using modern learning technologies
3. Vocational competencies: (Hardskills)	LO 5	Explains the activity, student-oriented and technological approaches in the organization, planning and management of the pedagogical process in the systems of secondary general, TVE, additional Vocational education
	LO 6	Reads and draws up engineering drawings, diagrams and graphs, performs calculations of limit sizes and tolerances according to the drawing data, determines the readiness of the given actual parameters
	LO 7	Organizes the work of the services of motor transLOrt enterprises in order to ensure the transLOrtation process / Performs technological operations for nodal processing of fabric
	LO 8	Diagnoses the operation of transLOrt units / Designs, models and manufactures garments
	LO 9	Produces objects and products of arts and crafts / Organizes living space
	LO 10	Demonstrates drawing and painting techniques

### Definition of modules of disciplines in accordance with learning outcomes

Code of learning outcomes	Name of module	Name of disciplines	Volume (ECTS)
LO 1	Philosophical and historical aspects of social and humanitarian knowledge	History and philosophy of science	4
LO 7		Pedagogy of higher education	4
LO 7		Psychology of management	4
LO 8		Teaching practice	4
LO 2	Vocational languages	Foreign language (Vocational)	4
LO 2		Foreign terminology in the system of vocational education Teaching terminology in the system of vocational education	4
LO 3	Topical issues of research activities	Commercialization of the results of scientific and scientific and technical activities Creative management	6
LO 3, LO 8		Innovation in the system of vocational education Modern trends in the development of the system of technical and vocational education	5
LO 4	Fundamentals of digitalization of education	Technologies for creating electronic educational resources	4
LO 5		Media didactics	4
LO 8		Information technologies in science and education (in English)	4
LO 9		Development of the digital environment in the system of technical and vocational education	6
LO 6, LO 8	Methodological foundations of scientific research in the system of vocational education	Organization of project-based learning Pedagogy of creativity	5
LO 2, LO 6		Designing additional education programs Creative style of activity in the system of technical and vocational education	5
LO 6, LO 10		Methods of vocational training in higher education Organization of a pedagogical experiment in the system of technical and vocational education	5
LO 2, LO 3, LO 7		Scientific foundations of the organization of the educational process in higher education Methods for the formation of critical thinking	6

### Achievability Matrix of Learning Outcomes

#	Name of disciplines	Brief description of the discipline	Qty of credits	Generated learning outcomes (codes)									
				L01	L02	L03	L04	L05	L06	L07	L08	L09	L010
Cycle of general education disciplines Selectable Component													
1	History and philosophy of science	History and philosophy of science as the study of the general patterns of scientific knowledge in its historical development and changing socio-cultural context. Philosophy of science and methodology of science. Science as a cognitive activity and tradition, as a social institution and as a special sphere of culture.	4	+									
2	Pedagogy of higher education	Pedagogy of higher education is called upon to put on a scientific basis as a solution to the problem of higher education for specific specialties, and the development of undergraduates in their future Vocational activities to manage the process of mastering this content. Pedagogy of higher education allows you to scientifically substantiate the requirements for the modern educational process	4							+			
3	Psychology of management	The formation of systemic ideas among undergraduates about the psychological patterns of managerial activity, in revealing the specifics of the use of socio-psychological knowledge in the structure of the manager's activity, in mastering the skills of analyzing the socio-psychological principles that underlie effective management.	4							+			
4	Teaching practice	As a result of mastering the internship program, undergraduates should: be guided by legal documents regulating the educational process in higher education institutions; plan and organize their activities and the activities of students; choose methods to achieve the learning objectives; analyze pedagogical activity, use modern technologies.	4		+	+				+			
5	Foreign language (Vocational)	The discipline implements the basic part of the general scientific curriculum of the main educational program of the master's program and is an organic part of the process of training highly qualified specialists who actively speak a foreign language as a means of intercultural and communication in the field of Vocational interests.	4		+								
Cycle of basic disciplines Selectable Component													



6	Organization of project-based learning	Essence and features of project-based learning. Types of projects in educational activities. Logic of organization and participants of project-based learning. Stages of project implementation. Methods and tools for conducting research in the course of project activities. Presentation of the results of project activities	5						+		+		
	Pedagogy of creativity	Actual problems of the development of giftedness in the conditions of modern vocational education. Principles of development of additional education in the system of technical and vocational education. Traditional and modern concepts of giftedness. Intellectual and creative talent of students. General requirements for the training of personnel working with gifted students.							+		+		
7	Designing additional education programs	Stages of designing additional Vocational education, which is aimed at a purposeful continuous improvement of Vocational competencies, including with the aim of timely compliance with the requirements of the labor market. Vocational training programs for organizations of additional education. Forms of additional education organizations.	5			+			+				
	Creative style of activity in the system of technical and vocational education	Creative activity as a condition for the effectiveness of the pedagogical process. The style of the teacher's activity as a result of pedagogical creativity. Educational technologies and pedagogical creativity. Active non-traditional lectures. Debating teaching methods. Pedagogical technique as an element of pedagogical creativity. Pedagogical improvisation.				+			+				
8	Methods of vocational training in higher education	Methods of vocational training in higher education as a scientific field of pedagogical knowledge. Structural components of the methodological activity of vocational school teachers. Information is a resource of science and education. Levels of study of academic disciplines. The concept and essence of the methods of the pedagogical process in higher education. Active teaching methods. Choice of teaching methods	5						+				+
	Organization of a pedagogical experiment in the system of technical and vocational education	Methods of theoretical research. Methods of empirical research. Methods used both at the empirical level of research and at the theoretical level. The structure and content of the stages of the research process. Essence and types of pedagogical experiment. Statistical methods for processing the results of the experiment.							+				+
Cycle of major disciplines													



	Teaching terminology in the system of vocational education	Design as the basis for the development of a linguodidactic educational terminological database on pedagogical disciplines in the system of technical and vocational education. The structure and content of the educational terminological database for pedagogical disciplines. The system of tasks on pedagogical terminology as an instrumental component of the educational terminological database			+								
14	Commercialization of the results of scientific and scientific and technical activities	Legal basis for the commercialization of the results of scientific and scientific and technical activities. Legal mechanisms for the protection of intellectual property. Determination of the optimal organizational and legal form of a legal entity for a start-up company and its creation. Technology of commercialization of the results of scientific and scientific and technical activities. The content and goals of business planning of the project of commercialization of the results of scientific and scientific and technical activities.	6			+							
	Creative management	The concept of creative management, the quality of education, building a management system. Scientific and theoretical foundations for the development of the content and quality of education. Characteristics of the general education system; characteristics of vocational education; concepts of development of education; foreign models of the education system, culture of education.				+					+		
15	Innovation in the system of vocational education	Pedagogical innovation is a science that studies the nature, patterns of emergence and development of pedagogical innovations in relation to the subjects of education, as well as providing a connection between pedagogical traditions and the design of future education. Pedagogical innovation studies the processes of development of the practice of education by introducing into it components that were not there before.	5			+						+	
	Modern trends in the development of the system of technical and vocational education	Master class: new forms of presentation of educational material. Quest as a tool for the development of educational and cognitive competence of students. Methodological approaches to the formation of students' motivation for the learning process at the university. Practice-oriented orientation of the educational process in the organization of the educational process as a condition for the development of socio-Vocational mobility of graduates. Methodology of scientific research in higher education.				+						+	

16	Scientific foundations of the organization of the educational process in higher education	Categories and concepts of scientific research. Modern trends in education. Application of specific research methods in independent research work. Definition of tasks for the development and improvement of programs; innovative research approaches of science in the organization of the educational process at the university.	6										
	Methods for the formation of critical thinking	The concept of "critical thinking" and its characteristics. Educational technology for the development of critical thinking. Methods of formation of critical thinking. Methods and strategies for the formation of critical thinking: clusters, inserts, interactive lectures, thick and thin questions, etc. Visual methods of organizing material. Search for meaning and resistance to stereotypes			+	+				+			

### Aligning planned learning outcomes with teaching and assessment methods within the module

Learning Outcomes	Planned learning outcomes for the module	Teaching methods	Assessment methods
LO1	Applies knowledge and understanding about society as an integral ecological system and a person, the role of historical processes in modern society, using the principles of effective communication to achieve Vocational and pedagogical goals	interactive lecture	Test, colloquium
LO2	Owns methods and techniques for organizing business activities and procedures for making managerial decisions based on Vocational diagnostics and creative abilities of students, contributing to the optimization of the pedagogical and production activities of the enterprise (according to the profile)	case methods, strategies for the formation of critical thinking	presentations
LO3	Approves in his Vocational activity his own civic position on the priorities of competitiveness, pragmatism, mutual understanding, tolerance and democratic values of society and understanding the importance of the socio-biological foundations of physical culture, academic writing and speech	discussion	colloquium
LO4	Knows information and communication technologies in the field of vocational education, using online services and platforms for distance learning	Discussion, strategies for the formation of critical thinking	presentations
LO5	Uses the terminology of media culture, applying the concepts of media and information literacy	project-based learning	project preparation
LO 6	Develops information and methodological materials based on the capabilities of information and communication technologies for the educational process in the TandPE system	round table	presentations
LO 7	Applies knowledge and understanding of pedagogical categories at the managerial level, taking into account age, physiological and inclusive issues in the system of vocational education, using modern teaching technologies and research methods	interactive lecture	portfolio
LO 8	Carries out Vocational activities on the basis of pedagogical technology and its components within the framework of dual training, student-centered and team approaches, both for the system of Vocational and additional education	round table, strategies for the formation of critical thinking	presentations
LO 9	Applies strategies, methods and techniques, modern teaching technologies both in educational and upbringing activities	project-based learning	project preparation
LO 10	Applies theoretical and practical knowledge when performing design and engineering calculations for educational and industrial purposes, solves engineering problems, observing the requirements of the principles of standardization, certification, organizational structure and structure of the state and international licensing and certification system.	BarCamp	portfolio

### Educational program graduate model

#### Graduate Attributes:

- Possesses competencies in the field of technical and vocational education
- Owns the methodology of professional training and strategies for the formation of critical thinking
- Able to organize and conduct scientific and pedagogical research
- Carries out organizational and managerial activities in organizations of technical and vocational education
- Emotional intelligence
- Social intelligence

Types of competencies	Description of competencies
1. Behavioral skills and personality traits (Softskills)	Applies knowledge and understanding about society as an integral ecological system and man, the role of historical processes in modern society, using the principles of effective communication to achieve professional and pedagogical goals. Owns the methods and techniques of organizing business activities and procedures for making managerial decisions that contribute to the optimization of the pedagogical and production activities of the enterprise (according to the profile).
2. Digital competencies (Digitalskills)	Owns information and communication technologies in the field of vocational education, using online services and platforms for distance learning. Uses the terminology of media culture, applying the concepts of media and information literacy in the field of technical and vocational education. Applies knowledge and understanding of pedagogical categories, taking into account age, physiological and inclusive issues in the system of vocational education, using modern teaching technologies and research methods. Carries out professional activities on the basis of pedagogical technology and its components within the framework of dual training, student-centered and team approaches, both for the system of professional and additional education.
3. Professional competencies (Hardskills)	Applies theoretical and practical knowledge when performing design and engineering calculations for educational and industrial purposes, solves engineering problems, observing the requirements of the principles of standardization, certification, organizational structure and structure of the state and international licensing and certification system. Demonstrates the implementation of the technological process of construction and installation production / Demonstrates knowledge and understanding of technological processes for the manufacture of garments, including the stages of design and modeling. Applies theoretical and practical knowledge and understanding of the maintenance and repair of motor vehicles.

#### Developed by:

Members of the working group:

Head of the department, Ph.D., Professor

Art. lecturer, master

Master student 2nd year EP «7M01407-Vocational Education»

The educational program was considered by the faculty council from 24.04.2023

The educational program was considered at a meeting of the Academic Council dated 28.04.2023 protocol No. 5

The educational program was reviewed and approved at a meeting of the University Board dated 30.05.23 minutes No. 12

Member of the Board - Vice-Rector for Academic Affairs

and about. Director of the Department of Academic Affairs

Faculty Dean

*G.S. Shramanova*  
G.S. Shramanova

*G.A. Akhmetzhanova*  
G.A. Akhmetzhanova

*Y.A. Mazitova*  
Y.A. Mazitova

Protocol No. 10

*T.Z. Zhusipbek*  
T.Z. Zhusipbek

*S.A. Smailova*  
S.A. Smailova

*S.A. Mulikova*  
S.A. Mulikova