



EDUCATIONAL PROGRAM

Education Program Code: 7M10102
Title of Educational Program: Public health
Educational Program Level: Master's degree (specialized track)

Shymkent, 2025y.



Department of Social Health Insurance and Public Health

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Educational program

Educational program 7M10102 "Public Health" is developed by the members of the Academic Committee of Educational Programs at Master's and Doctoral levels

The educational program is designed by:

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Minutes No. 2 of 25 03 2025.

Coordinated with employers:

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Approved by the Methodological Council

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Minutes No. 9 of 02 05 2025.

Approved by the Academic Council



Passport of the educational program

1. **Mission of the educational program:** Development of measures to protect and promote public health, training of highly qualified specialists with managerial skills in the field of public health, able to implement them in practice and evaluate their effectiveness.

2. **Purpose of the educational program:** Training of highly qualified specialists in the field of public health with the skills of management, development of measures for the preservation and promotion of public health, their implementation in practice and evaluation of their effectiveness.

3. **The basis of the educational program:** Demand in the labor market: the educational program is focused on specialists in the field of health care, capable of conducting scientific research and introducing organizational and management technologies to solve complex problems to protect the health of the population and the development of an effective health care system in Kazakhstan.

4. **Professional standard on the basis of which the educational program was developed:**

Normative documents for the development of the educational program

- Order of the Minister of Science and Higher Education of the Republic of Kazakhstan "On Approval of State Compulsory Standards of Higher and Postgraduate Education" dated July 20, 2022 № 2.

- Order of the Minister of Health of the Republic of Kazakhstan "On approval of the state obligatory standards on levels of education in the field of health care" from July 4, 2022 № KR DSM-63.

- Order of the Minister of Education and Science of the Republic of Kazakhstan "On approval of the Rules of organization of educational process on credit technology of education in organizations of higher and (or) postgraduate education" from April 20, 2011 № 152.

- Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 № 319-III (as amended on 04.07.2022).

- Order of the Minister of Education and Science of the Republic of Kazakhstan "On Approval of the Model Rules of Activity of Organizations of Higher and Postgraduate Education" dated October 30, 2018 № 595 (with amendments and additions as of 29.12.2021).

- "Regulations on the order and procedures for the development of educational programs" of JSC "SKMA" dated 29.04.2024.

- Internal regulatory documents of JSC UKMA

5. **Area of professional activity:** Health care organizers; heads of state and non-state medical and non-medical institutions.

6. **Object of professional activity:** Health care management organizations, health care and social security organizations.

Types of professional activities:

- organizational and management;

- research activities.

General information

№	Characterization of the EP	Data
1	Registration number	7M10100139
2	Code and classification of the field of education	7M10 Health care
3	Code and classification of training direction	7M101 Health Care
4	Group of educational programs	M140 Public health
5	Code, name of educational program	7M10102 Public Health
6	Type of EP	Current EP
7	ISCED level	7
8	NSC level	7
9	ORC level	7
10	Distinctive features of the EP	No
	HEI (SOP)	-
	HEI (VDOP)	-
11	List of competencies	Key competencies of the program graduate: QC1 Methods in Public Health. QC2 Population health and its physical, radiological, chemical and biological-environmental determinants. KK3 Health promotion: health education, health promotion and disease prevention. KK4 Ethics.
12	Learning Outcomes	RO1 Engages in professional development in public health and health care and demonstrates self-reflection skills. RO2 Communicates information, ideas, findings, conclusions, problems and solutions



		<p>clearly and unambiguously to both specialists and non-specialists in their area of public health qualification.</p> <p>RO3 Able to solve problems in the field of public health within the scope of his qualifications based on scientific approaches, solves problems on issues of “One Health” in the field of public health.</p> <p>RO4 Able to acquire new knowledge and skills of applied nature in experimental work and professional activities in the field of health care organization.</p> <p>RO5 Demonstrates knowledge and understanding of the interdisciplinary nature of experimental work in public health.</p> <p>RO6 Utilizes scientific information to implement new approaches and uses modern information technologies health care, including artificial intelligence, in professional activities.</p> <p>RO7 Plans professional activities in their area of public health qualification based on current developments in science and practice.</p>
13	Form of training	Full-time
14	Language of instruction	Kazakh, Russian
15	Loan volume	60
16	Degree awarded	Master of Public Health in the educational program 7M10102 "Public Health"
17	Term of study	1 year
18	Availability of an annex to the license for the direction of training	KZ36LAA00011387 (018)
19	Availability of OP accreditation	Yes
	Name of accreditation body	NU "Independent Agency for Accreditation and Rating" IAAR
	№ accreditation certificates, accreditation validity period	№AB 3990, 10.06.2022. - 09.06.2027г.
20	Information on disciplines	Appendix 1.2.



Annex 1

Matrix of correlation of the learning outcomes of the educational program as a whole with the competences formed

	RO1	RO2	RO3	RO4	RO5	RO6	RO7
KK1	■	■		■			■
KK2		■	■			■	
KK3		■	■				
KK4	■				■		

Appendix 1.2.

Competencies/learning outcomes achievability matrix

№	Name of the discipline	A brief description of the discipline	Cycle (BD, PD)	Component (UC, OC)	Number of credits	Generated LO (codes)
Cycle of basic disciplines					10	
University component					6	
1	Management in Healthcare (Management, psychology of management)	Formation of knowledge and skills necessary for effective management of organizations in the field of healthcare, with an emphasis on the psychological aspects of interaction between managers and subordinates, as well as on the influence of psychology on managerial decision-making and organizational culture. Discipline content: Management systems, planning, SWOT analysis and forecasting. Management processes: setting goals and assessing the situation, making managerial decisions. The mechanism of management in healthcare. Digitalization of healthcare. Fundamentals of psychology in the context of management. Psychological aspects of leadership and motivation.	BD	UC	3	RO1 RO3 RO6
2	Foreign language (professional)	The effective use of a foreign language in research, education, health and international activities, as well as the development of professional and communicative	BD	UC	3	LO1

		competencies that ensure the ability to further grow professionally and participate in the global health community. The formation of the ability to analyze and interpret specialized texts, participate in business correspondence and professional discussions.				LO2
		Optional Component			4	
4	Information technology and artificial intelligence in public health	Formation of knowledge and skills in working with modern information technologies and tools, software platforms for modeling, diagnosing and monitoring public health; the use of artificial intelligence for data analysis, forecasting and management decision-making; critical thinking and solving competence problems for the development and implementation of technological solutions to improve the quality and efficiency of the healthcare system.	BD	OC	4	RO1 RO5 RO6
5	Risk management in the health care system	Risk management (risk management). Groups of risks in the health care system: socio-political; management-related risks; professional (medical) risks. Risk analysis: risk identification and risk assessment. Risk management processes: defining the purpose; risk elucidation; selection of risk management methods; implementation of risk management; evaluation of results.	BD	OC	4	RO1 RO2
		Cycle of specialized disciplines			25	
		University component			5	

5	Global aspects of unified health	The basic principles of the concepts of "unified health" and integrative and systematic approaches in medicine and healthcare, a holistic approach to human health and the relationship of physical, psychological and social aspects of Health; skills of interdisciplinary analysis of the state of health, identification of the cause of diseases and decision-making in this area; formation of knowledge in the skills of interdisciplinary interaction and work in teams of specialists; skills in using digital and artificial intelligence in modeling and systems analysis in assessing threats to human health and ecosystems.	PD	UC	5	RO1 RO6 RO7
6	Industrial practice	To consolidate the theoretical knowledge acquired during the training process, to acquire practical skills, competencies and experience of professional activity in public health, as well as to master the best practices.	PD	UC	10	RO4 RO5
Optional Component					10	
7	Strategic and operational management in health care	Hierarchies of strategic management. Object, subject and essence of strategic management. Strategy planning. Features of strategic management in the health care system. The right of operational management. Organization of the current activities of the medical organization. Analysis, coordination and control of the activities of a medical organization. Decision-making process.	PD	OC	5	RO1 RO2 RO3



8	Health management and disease prevention	Health policy of the Republic of Kazakhstan in the field of health promotion at the present stage. Organization and management of health promotion services. Etiological factors determining health. Main health indicators of the population. Preventive examinations. Prevention of infectious and non-infectious diseases. Primary and secondary prevention. WHO programs in the field of health protection and promotion.	PD	OC	5	RO2 RO3
9	Peculiarities of financing social measures in the conditions of Mandatory Social Medical insurance	Type of insurance. Concept, goals. The new tariff policy and pricing in the conditions of OMS. Assessment of financial stability of the medical organization (PHC, hospital). Analysis of the medical organization. Assessment of the quality of medical services in CHI. The use of digital technologies and tools in the analysis of the activities of medical organizations.	PD	UC	5	RO4 RO5 RO6
10	Decision-making methods in healthcare	An introduction to qualitative and quantitative decision-making methods in healthcare management. Decision making in the management of the health care system. Application of forecasting methods. Decision making using statistical software. Location of medical facilities and their strategic planning. Performance measurement.	PD	UC	5	RO1 RO3 RO4
Experimental and research work					13	
11	Experimental-research work of a master's student,	Based on modern achievements of science, technology and production and contains specific practical recommendations, independent solutions to			13	RO1 RO2 RO3 RO3 RO4 RO5

	including internship and master's project fulfillment	management problems. It is carried out with the application of advanced information technologies; It contains experimental and research (methodological, practical) sections.				RO6 RO7
Final certification					12	
12	Formalization and defense of master's project	Assessment of learning outcomes and key competencies achieved upon completion of the study of the Master's degree program.			12	RO1 RO2 RO3 RO3 RO4 RO5 RO6 RO7
TOTAL					60	