



# EDUCATIONAL PROGRAM

**7M09 - Veterinary**

(Code and classification of the field of education)

**7M091 - Veterinary**

(Code and classification of the direction of training)

**0841**

(Code in the International Standard Classification of Education)

**M138 - Veterinary Science**

(Code and classification of the educational program group)

**7M09102 - Veterinary sanitation**

(Code and name of the educational program)

**Master**

(Level of preparation)

**Semey**

## **Educational program**

**7M09 – Veterinary**

(Code and classification of the field of education)

**7M091 - Veterinary**

(Code and classification of the direction of training)

**0841**

(Code in the International Standard Classification of Education)

**M138 - Veterinary Science**

(Code and classification of the educational program group)

**7M09102 - Veterinary Sanitation**

(Code and name of the educational program)

**Master**

(Level of preparation)

# PREFACE

## Developed

The educational program 7M09102 - Veterinary Sanitation in the direction of preparation 7M091 - Veterinary on the basis of the State Compulsory Standards of Higher and Postgraduate Education approved by the Order of the Ministry of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No 2 (as amended by the order) was developed by the Academic Committee dated 20.02.2023 No 66).

Members of the Academic Committee	Full name	Academic degree, academic title, position
Head of the Academic Committee	Yessengulova Nurgul	Head, Research School of Veterinary and Agricultural Studies
Educational program manager	Serikova Ainur	Candidate of Veterinary Sciences, Associate Professor
Member of the AC	Dyussebayev Sergazy	Doctor of Veterinary Sciences, Professor of the Department
Member of the AC	Koygeldinova Ainur	Candidate of Veterinary Sciences, Associate Professor
Member of the AC	Akhmetzhanova Aizhan	PhD Doctor of Philosophy, Acting Head of Department
Member of the AC		Candidate of Veterinary Sciences, Senior Lecturer
Member of the AC	Rakishev Zhanat	
Member of the AC	Baryshev Yerzhan	Head of the Veterinary Department of the Abay District
Member of the AC	Semenova Tatyana	1st year Masters student
Member of the AC	Sembayeva Guldana	1st year Masters student

## Reviewing

Full name of the reviewer	Position, place of work
Baluanov Ayan	Head of the testing laboratory of the Semipalatinsk regional branch of the Republican state-owned enterprise
Amangaliuly Yerkebulan	Head of the Abay branch of the RSI "Republican Anti-Epizootic Squad" of the Committee for Veterinary Control and Supervision

## Reviewed

at the meeting of the Commission on Academic Quality of the Faculty of Veterinary Medicine and Agricultural Management by protocol No. 3 of January 09, 2024.

at a meeting of the Academic Quality Commission  
Research School of Veterinary Medicine and Agriculture.  
Recommended for approval by the University Academic Council  
Protocol No. 6 dated June 06, 2024

## Approved

at a meeting of the University Academic Council by protocol No. 6/1 of January 19, 2024.

at a meeting of the University Academic Council by protocol No. 11 of June 28, 2024.

# Content

1. Introduction

2. PASSPORT OF THE EDUCATIONAL PROGRAM:

2.1. EP purpose;

2.2. Map of the training profile within the educational program:

Code and classification of the field of education;

Code and classification of the direction of training;

Code in the International Standard Classification of Education;

Code and classification of the educational program group;

Code and name of the educational program;

2.3. Distinctive features of the OP (double degree/joint, OVPO-partner, Double major, innovative);

2.4. Qualification characteristics of the graduate:

Degree awarded / qualification;

Name of professional standard;

Atlas of new professions;

Regional standard;

Name of the profession / list of positions of a specialist;

OQF qualification level (industry qualification framework);

Area of professional activity;

Object of professional activity;

Types of professional activity;

2.5. Graduate Model.

3. Modules and content of the educational program

4. Summary table on the scope of the educational program 7M09102 - Veterinary Sanitation»

# 1.Introduction

## 1.1.General data

Department of Veterinary Medicine, Faculty of Veterinary Medicine and Agricultural Management of the NAO "Shakarim Semey University" carrying out training under the educational program "7M09102 Veterinary Sanitation". The educational program has been developed taking into account the needs of the regional labor market, the requirements of regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan and is a system of documents for the organization of the educational process.

The educational program "7M09102 Veterinary Sanitation" is designed on the basis of a modular system for studying disciplines. It contains 5 modules that form general cultural and professional competencies. The educational program regulates the purpose, expected results (units of competencies), contains a description of the program and areas of professional activity of the graduate, learning outcomes and acquired competencies, a description of the modules that make up the educational program.

When implementing the educational program, it is planned to use artificial intelligence tools in the educational process, thereby developing digital competencies among students in a rapidly changing technological environment.

The educational program provides for the education of a student with special educational needs in the conditions of a higher educational institution, as well as his socialization and integration into society.

## 1.2.Completion criteria

The main criterion for the completion of the educational process for the preparation of masters of the scientific and pedagogical direction is the development of at least 84 credits of theoretical training, including 6 credits of pedagogical practice, 9 credits of research practice, as well as at least 24 credits of research work of a master`s student, including internships and the completion of a master`s thesis, at least 12 credits of the final attestations . A total of 120 credits.

1.3.Typical study duration: 2 years.

## 2.PASSPORT OF THE EDUCATIONAL PROGRAM

<b>2.1.EP purpose</b>	Training of scientific, scientific and pedagogical personnel for independent research activities requiring extensive fundamental training in the chosen direction and work in higher and secondary specialized educational institutions
<b>2.2.Map of the training profile within the educational program</b>	
Code and classification of the field of education	7M09 - Veterinary
Code and classification of the direction of training	7M091 - Veterinary
Code in the International Standard Classification of Education	0841
Code and classification of the educational program group	M138 - Veterinary Science
Code and name of the educational program	7M09102 - Veterinary Sanitation
<b>2.3.Distinctive features of the OP (double degree/joint, OVPO-partner, Double major, innovative)</b>	-
<b>2.4.Qualification characteristics of the graduate</b>	
Degree awarded / qualification	Master of Veterinary Sciences in the educational program
Name of professional standard	1 Professional standard: Teacher (faculty) of higher and (or) postgraduate education organizations 20.11.2023 2 Veterinary activities 12.02.2024
Atlas of new professions	-
Regional standard	-
Name of the profession / list of positions of a specialist	Teacher Researcher at Universities and research institutes Manager and specialist of the management apparatus in the field of veterinary medicine Veterinarian in the field of production Veterinarian in research laboratories of the agricultural sector and livestock farms Veterinarian at the enterprises of the food and processing industry
OQF qualification level (industry qualification framework)	7
Area of professional activity	Scientific and pedagogical, veterinary activities
Object of professional activity	research institutes, public and private organizations of veterinary profile; - secondary specialized and higher professional educational institutions; - research and design organizations of the educational sector; - enterprises for the production, processing, storage, sale of food products and animal and vegetable feed; - laboratories of veterinary and sanitary examination of markets and food safety; - state customs service institutions and checkpoints;
Types of professional activity	Scientific and pedagogical activity. - processes and analyzes the results of experimental studies - compiles reports (sections of reports) on the

	<p>topic of research and development or its section (stage, task);</p> <ul style="list-style-type: none"> <li>-carries out the selection of scientific, technical and patent literature in the field of veterinary medicine, carries out its analysis and generalization;</li> <li>- plans experimental research and performs scientific experiments;</li> <li>-implements the results of research and development into practice;</li> <li>-organizes the educational process;</li> <li>- develops methodological support of the educational process;</li> <li>-uses pedagogical technologies;</li> <li>-recommends the use of innovative methods in the educational process.</li> </ul> <p>* Organizational and managerial activities:</p> <ul style="list-style-type: none"> <li>- analyzes and summarizes the materials of enterprises on the results of veterinary and sanitary examination at the objects of gosvetnadzor;</li> <li>- organizes methodical management of the production activities of the company`s specialists;</li> <li>- organizes the testing and introduction of new veterinary and sanitary preparations,</li> </ul>
<p><b>2.5. Graduate Model</b></p>	<p>Objectives of the educational program</p> <p>The main objectives of the educational master`s program in the specialty 7M09102 - "Veterinary Sanitation" are:</p> <ul style="list-style-type: none"> <li>- to teach undergraduates modern methods of practical organization and conduct of work on veterinary and sanitary examination of food products;</li> <li>- to familiarize undergraduates with the main groups of foreign substances contained in food, which can cause harm to the body of animals and humans;</li> <li>- to teach methods for determining the main foreign substances contained in food;</li> <li>- to provide an individual educational trajectory of learning in accordance with the specialization chosen by undergraduates;</li> <li>- to develop in students the ability to self-improvement and mastery of new knowledge;</li> <li>- to promote the acquisition of skills for participation in scientific events of various levels, to continue scientific training in doctoral studies;</li> <li>- to create and improve the educational environment on the basis of the General Educational System.</li> </ul> <p>The results of doctoral training in 7M09102 - "Veterinary Sanitation" (7th qualification level of the NQF) in accordance with the Dublin descriptors of the first level assumes the ability to:</p> <ul style="list-style-type: none"> <li>- apply scientific developments of veterinary and sanitary expertise at the objects of veterinary and sanitary control.</li> <li>- solve problems that arise in the course of research activities and require in-depth professional knowledge;</li> <li>- to master the methodology and algorithm of planning and organizing research and scientific-pedagogical activities;</li> <li>- to conduct fundamental and applied scientific research in the field of veterinary sanitation;</li> <li>- to analyze and solve theoretical and applied</li> </ul>

problems of veterinary sanitation of products of animal and plant origin;

- to conduct fundamental and applied scientific research on sanitary microbiology;
- to develop new and improve existing methods for indicating and identifying microorganisms.
- to apply express methods for assessing the safety of products and raw materials of animal origin;
- to improve the sanitary and hygienic assessment of life support systems, animals and environmental safety;
- to carry out assessment of conformity of objects of state veterinary sanitary control and supervision to the requirements of legislation in the field of veterinary medicine;
- to apply modern methods of forensic examination of the death of animals;
- to organize and conduct innovative research methods in the field of veterinary medicine.

Professional competencies:

- carrying out veterinary sanitary examination of products, raw materials of animal and plant origin;
- carrying out veterinary and sanitary control at enterprises for the production, transportation, sale of products and raw materials of animal and plant origin;
- prevention of diseases, including diseases common to humans and animals (anthropozoonoses), transmitted through products and raw materials of animal origin;
- protection of the territory of the state from the introduction of pathogens common to humans and animals, as well as dangerous zoonoses through imported products and raw materials of animal origin;
- planning and organization of veterinary measures for the organization of general and preventive measures against infectious and mass non-contagious animal diseases;
- production activities in organizations of secondary, higher and additional professional education of technical and agricultural directions, research, design organizations and in production;
- research activities in the field of education and production in the field of improving employees in accordance with specialization.

Personal qualities of a master`s student:

A master`s student in the specialty 7M09102 - "Veterinary Sanitation" conducts active research work, carries out pedagogical activities for training, education, development of the potential of students, participates in the management of the department and other types of organizational activities.

The main goal allows to develop such personal qualities as high civic responsibility, legal self-awareness, spirituality and culture, initiative, independence, tolerance, patriotism, the ability to successfully socialize in society, analytical and critical thinking.

	<p>деятельность» Педагог (профессорско-преподавательский состав) организаций высшего и (или) послевузовского образования</p> <p>«Ветеринариялық қызмет» кәсіби стандарты Оқытушы (профессорлық-оқытушылық құрам) жоғары және (немесе) жоғары оқу орнынан кейінгі білім беру ұйымдары</p> <p>Professional Standard "Veterinary Activity" Teacher (teaching staff) of higher and (or) postgraduate education organizations</p>
--	--

### **3. Modules and content of the educational program**

#### **Sociolinguistic and scientific-pedagogical activity**

##### **Brief description of the module content**

Promotes the formation of sociolinguistic competence and the application of fundamental scientific, pedagogical, managerial, communication knowledge and skills in professional activities.

##### **Module disciplines**

Foreign language (professional)

History and philosophy of science

Higher Education Pedagogy

Psychology of management

Practice pedagogical

#### **Veterinary and sanitary technologies**

##### **Brief description of the module content**

The module is aimed at the ability to analyze and solve theoretical and applied problems of veterinary sanitation of animal and plant products, to apply express methods for assessing the safety of products and raw materials of animal origin

##### **Module disciplines**

The microbiological control of meat and poultry products

Microbiological indicators of quality and safety of vegetable products

Microbiology of milk and dairy products

Patent and defence of intellectual property

Current problems in epizootology

Modern problems of veterinary hygiene

Modern problems of Veterinary Public Health

Theoretical bases of programming of veterinary events

Theory and methods of experimental research

Radiation safety of livestock products

#### **Sanitary and epizootological examination**

##### **Brief description of the module content**

The module is focused on conducting fundamental and applied scientific research in the field of veterinary sanitation, sanitary microbiology.

##### **Module disciplines**

Veterinary and sanitary examination at especially dangerous diseases of animals and birds

Modern problems of veterinary-sanitary examination

Modern problems of sanitary parasitology

Veterinary and sanitary measures for infectious diseases of bees and fish

Veterinary and sanitary measures for especially dangerous infectious diseases of animals and birds

Veterinary and sanitary measures for especially dangerous infectious diseases of birds

GIS technology in epizootology

Regional epizootology

The research work of a student, including an internship and the implementation of a master s thesis I

Epizootological monitoring of infectious diseases of animals and birds

#### **Food sanitation**

##### **Brief description of the module content**

The module forms an assessment of the compliance of objects of state veterinary and sanitary control and supervision with the requirements of legislation in the field of veterinary medicine. Apply modern methods of forensic examination of animal deaths.

**Module disciplines**

Veterinary and sanitary control in the objects of veterinary supervision

Biological safety assessment of exotic plant and animal products

Veterinary sanitation facilities for handling of meat and milk

Veterinary and sanitary control of food quality

Veterinary-sanitary supervision of food trade in the markets

Veterinary legislation and sanitary standards

Clinical Anatomy (Sectional Course)

Quality and safety control of livestock products

The research work of a student, including an internship and the implementation of a master's thesis II

Oncopathology

The hygienic control in shops, markets and small retail outlets

Forensic examination of diseases and death of animals

Ergonomics, ethology and hygiene in livestock and poultry

Research practice

The research work of a student, including an internship and the implementation of a master's thesis III

**Final assessment****Brief description of the module content**

Writing and defending a master's thesis.

**Module disciplines**

Master's dissertation

## 4. Summary table on the scope of the educational program «7M09102 - Veterinary Sanitation»

Name of discipline	Cycle/ Component	Term	Number of credits	Total hours	Lec	SPL	LC	IWST	IWS	Knowledge control form
<b>Sociolinguistic and scientific-pedagogical activity</b>										
Foreign language (professional)	BS/US	1	3	90		30		20	40	Examination
History and philosophy of science	BS/US	1	5	150	15	30		35	70	Examination
Higher Education Pedagogy	BS/US	1	3	90	15	15		20	40	Examination
Psychology of management	BS/US	1	3	90	15	15		20	40	Examination
Practice pedagogical	BS/US	3	6	180						Total mark on practice
<b>Veterinary and sanitary technologies</b>										
The microbiological control of meat and poultry products	BS/CCh	1	5	150	15	30		35	70	Examination
Microbiological indicators of quality and safety of vegetable products	BS/CCh	1	5	150	15	30		35	70	Examination
Microbiology of milk and dairy products	BS/CCh	1	5	150	15	30		35	70	Examination
Patent and defence of intellectual property	BS/CCh	1	5	150	15	30		35	70	Examination
Current problems in epizootology	BS/CCh	1	5	150	15	30		35	70	Examination
Modern problems of veterinary hygiene	BS/CCh	1	5	150	15	30		35	70	Examination
Modern problems of Veterinary Public Health	BS/CCh	1	5	150	15	30		35	70	Examination
Theoretical bases of programming of veterinary events	BS/CCh	1	5	150	15	30		35	70	Examination
Theory and methods of experimental research	BS/CCh	1	5	150	15	30		35	70	Examination
Radiation safety of livestock products	AS/US	2	5	150	15	30		35	70	Examination
<b>Sanitary and epizootological examination</b>										
Veterinary and sanitary examination at especially dangerous diseases of animals and birds	BS/CCh	2	5	150	15	30		35	70	Examination
Modern problems of veterinary-sanitary examination	BS/CCh	2	5	150	15	30		35	70	Examination
Modern problems of sanitary parasitology	BS/CCh	2	5	150	15	30		35	70	Examination
Veterinary and sanitary measures for infectious diseases of bees and fish	AS/CCh	2	5	150	15	30		35	70	Examination
Veterinary and sanitary measures for especially dangerous infectious diseases of animals and birds	AS/CCh	2	5	150	15	30		35	70	Examination
Veterinary and sanitary measures for especially dangerous infectious diseases of birds	AS/CCh	2	5	150	15	30		35	70	Examination
GIS technology in epizootology	AS/CCh	2	5	150	15	30		35	70	Examination
Regional epizootology	AS/CCh	2	5	150	15	30		35	70	Examination

The research work of a student, including an internship and the implementation of a master s thesis I	AS/US	2	11	330						Total mark on practice
Epizootological monitoring of infectious diseases of animals and birds	AS/CCh	2	5	150	15	30		35	70	Examination
<b>Food sanitation</b>										
Veterinary and sanitary control in the objects of veterinary supervision	AS/CCh	3	5	150	15	30		35	70	Examination
Biological safety assessment of exotic plant and animal products	AS/CCh	3	5	150	15	30		35	70	Examination
Veterinary sanitation facilities for handling of meat and milk	AS/CCh	3	5	150	15	30		35	70	Examination
Veterinary and sanitary control of food quality	AS/CCh	3	5	150	15	30		35	70	Examination
Veterinary-sanitary supervision of food trade in the markets	AS/CCh	3	5	150	15	30		35	70	Examination
Veterinary legislation and sanitary standards	AS/CCh	3	5	150	15	30		35	70	Examination
Clinical Anatomy (Sectional Course)	AS/CCh	3	5	150	15	30		35	70	Examination
Quality and safety control of livestock products	AS/CCh	3	5	150	15	30		35	70	Examination
The research work of a student, including an internship and the implementation of a master s thesis II	AS/US	3	4	120						Total mark on practice
Oncopathology	AS/CCh	3	5	150	15	30		35	70	Examination
The hygienic control in shops, markets and small retail outlets	AS/CCh	3	5	150	15	30		35	70	Examination
Forensic examination of diseases and death of animals	AS/CCh	3	5	150	15	30		35	70	Examination
Ergonomics, ethology and hygiene in livestock and poultry	AS/CCh	3	5	150	15	30		35	70	Examination
Research practice	AS/US	4	13	390						Total mark on practice
The research work of a student, including an internship and the implementation of a master s thesis III	AS/US	4	9	270						Total mark on practice
<b>Final assesment</b>										
Master`s dissertation		4	8	240						

**NON -PROFIT LIMITED COMPANY «SHAKARIM UNIVERSITY OF SEMEY»**

**EDUCATIONAL PROGRAM DEVELOPMENT PLAN**

7M09102 - "Veterinary sanitation"

for 2024-2026 years

Semey 2024

## Content

#	Name of sections	on Page
1.	Passport of the educational program development plan	3
2.	Analytical justification of OP	4
2.1	Information about the educational program	4
2.2	Information about students	4
2.3	Internal and external conditions for the development of OP	5
2.4	Information about teaching staff implementing the educational program	6
2.5	Characteristics of the achievement of the OP	6
3	Main objectives of the development plan of the OP	6
4	Risk analysis of the OP	6
5	Action plan for the development of the OP	8

### 1. Passport of the Development plan of the OP doctoral program 7M09102 - "Veterinary sanitation"

1	Basis for developing	Development program of the Non -Profit Limited Company «Shakarim University of Semey» for 2023-2029. Plan work faculty.
2	Implementation dates	2024-2026 years
3	Expected results of implementation	<ul style="list-style-type: none"><li>: - provision of educational services at the level of world educational standards that ensure the competitiveness of graduates in the labor market;</li><li>- training of intellectually developed, creative specialists through the integration of the educational process, research and innovation;</li><li>- training of qualified and competitive personnel for agriculture in accordance with national and international requirements</li></ul>

## 2. АналитическоеAnalytical justification of the OP

### 2.1 Information about the educational program

The educational program is developed in accordance with the National Qualifications Framework and Professional standards, according to the Dublin Descriptors and the European Qualifications Framework. The typical duration of a doctoral program is 2 years.

The main criterion for the completion of the educational process is the development of at least 120 credits, with the award of the degree of Master of Veterinary Sciences in the educational program 7M09102 - "Veterinary Sanitation". The purpose of the educational program is to form general professional and professional competencies in undergraduates in accordance with the requirements of the labor market and employers, standards in this area of training for undergraduates.

The educational program 7M09102 - "Veterinary sanitation", implemented by the Department of Veterinary Medicine, was developed taking into account the needs of the regional labor market, the requirements of regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan and is a system of documents for organizing the educational process.

The educational program regulates the goals, expected results, content, conditions and technologies for implementing the educational process, assessing the quality of graduate training in this area of training and contains a description of the program and areas of professional activity of the graduate, learning outcomes and acquired competencies, a policy for evaluating learning outcomes, the organization of the educational process that ensures the quality of training of students, a description of the program.

The content of the educational program is implemented through a curriculum developed in a modular format, in which two cycles of disciplines are provided for the first level of education: basic and profile disciplines, final certification.

Graduates can hold the following positions: - scientific and research veterinary organizations; - RSE "Republican Veterinary Laboratory"; -State Institution "National Reference Center for Veterinary Medicine"; - enterprises for the production, processing, storage, sale of food products and feed of animal and plant origin; - laboratories of veterinary and sanitary expertise - institutions of the state Customs Service and checkpoints; - teaching activities in higher educational institutions and colleges. Universities and colleges that have an OP in the field of Veterinarymedicine.

### 2.2 Information about students

Academic year	2024-2025 academic year	2025-2026 academic year
Basis of study		
Grant	1	2
Contract		
Total	1	2

### 2.3 Internal and external conditions for OP development

Doctoral students and teaching staff of the Veterinary Medicine Department have unlimited access to information and educational resources and electronic library systems necessary for independent educational and research work. Electronic information resources: full access to databases-Scopus, Science Direct. The Portal of educational resources of the Shakarim Semey University is functioning (<http://ais.semgu.kz/>) on which educational materials of disciplines are presented in electronic format in the Kazakh language. Classrooms of the Department of Veterinary Medicine are connected to the WI-FI network for conducting online conferences, lectures, seminars with the participation of leading scientists from Kazakhstan, near and far abroad.

Issues of professional training, professional practice and employment of graduates are resolved at the department with the mandatory participation of employers. Every year, the department hosts round tables, which are attended by heads and representatives of city and district akimats, agricultural enterprises. The department organizes meetings with graduates-employers, seminars with practical workers.

Research projects are conducted in accordance with the approved end-to-end internship program and generally meet the qualification requirements for training specialists in this field.

Research projects implemented within the framework of the OP are held on the basis of the RSE "Republican Veterinary Laboratory", the Laboratory of Veterinary and Sanitary Expertise, NAO "Kazakh Agrarian Technical University named after A. A. Abramovich". From Seifullin.

Educational Department "Veterinary Medicine" cooperates with: Scientific Research Institute of Veterinary Medicine under the Ministry of Agriculture of Azerbaijan, "NAO" Kazakh National Agrarian Research University", NAO "Kazakh Agrarian and Technical University named after A. A. Abramov". S. Seifullin", "St. Petersburg State University of Veterinary Medicine", "Omsk State University named after P. A. Stolypin".

In 2022, a memorandum of cooperation was signed with the Kavkaz University in Turkey.

In the 2024-202-2025 academic year of the OP, the Department of Veterinary Medicine plans to introduce elements of dual education. The contract budget is concluded with a municipal enterprise on the right of economic management "SCemey-Vet" of the veterinary department of the Abay region.

Contracts were signed with the Scientific Agricultural Center and the Kalikhanuly farm of Kalikhanuly» the Abay region.

One of the tasks of the department is to develop a joint educational program with leading universities, the implementation of which is aimed at integration into the international scientific space through academic exchange of teachers and students, as well as obtaining two diplomas.

Every year, sociological surveys are conducted, for example, by University graduates, "On the working conditions and quality of educational process management at the University named after V. I. Abramovich. Shakarim University", "Population, employers of Semey on the quality of education and the demand for specialists, including the University of M. Shakarim University", "Teaching staff on readiness and problems in updating the OP". During the monitoring, the results were obtained in the form of opinions of residents of the region about the competencies of graduates of the

NAO " имени Shakarim University of Emei", including educational programs of the Department of Veterinary Medicine. The results of the study will be aimed at further improving the competence system of the above -mentioned educational programs.

#### 2.4 Information about teaching staff implementing the educational program

#	Indicators	of Units and units	2024-2025 academic year	2025-2026 academic year
1	Share of teaching staff with an academic degree in OP	%	100	100
2	Including the share of teaching staff with an academic degree in the DB/VC cycle	%	90	90

The Department of Veterinary Medicine carries out the educational process in three levels of study: bachelor's, master's and PhD doctoral studies. The formation of scientific and pedagogical personnel at the department is carried out by training through master's degree, PhD doctoral studies, advanced training профессорско of the teaching staff. OP teachers undergo advanced training in leading universities of Kazakhstan (according to the FPC plan) and training seminars held by the Ministry of Education and Science of the Republic of Kazakhstan, universities and other organizations. The results of scientific activity of teachers are reflected in scientific publications with an impact factor. Scientists of the Department of Veterinary Medicine have Hirsch (an h-index in the Web of Science and Scopus databases).

#### 2.5 Characteristics of the OP achievement

In 2024, the educational program "7M09102 -Veterinary Sanitation" was accredited for a period of 5 years by the international accreditation agency ARQA.

### 3. Main objectives of the OP development Plan

For the effective implementation of the OP, the following tasks are defined:

#	Name of the task	Terms of development	Stages of development
1	Improving and improving the conditions for obtaining a full-fledged, high-quality professional education.	The entire training period.	Development of measures to improve educational services for the development of professional skills.

2	Updating the content of educational programs that form the main professional competencies of future specialists in the field of veterinary sanitation.	The entire training period.	When updating the content of educational programs, include disciplines recommended by employers
3	Creating prerequisites for independent search and research activities of the student within the framework of conducting an experiment at all its stages of training.	The entire training period.	Inclusion of research and experimental work in the study of educational programs
4	Development of measures for mastering the work with scientific and technical information while using domestic and foreign experience in professional activities.	The entire training period.	Conducting activities to analyze and process the results obtained
5	Advising employers and research institute scientists on the selection of relevant and practically significant topics for master's and doctoral works.	Completion of doctoral studies.	Suggestions from employers, stakeholders, and management consultations

#### 4. Risk analysis of the OP

#	Name of risks	Measures to eliminate
1	Reduction in the number of students enrolled in the OP	Regular high-quality career guidance
2	Insufficient level of language skills for the introduction of multilingualism.	Increasing the participation of undergraduates and teachers in language courses
3	Reduced in Rowan's employment opportunities	Communication with institutions and organizations that have a high opportunity to pass industrial practice and further employment
4	Insufficient development of external and internal academic mobility of undergraduates and teaching staff	Increasing the involvement of faculty and undergraduates in external and internal academic mobility
5	Risk of reducing the degree of retirement of PPP in the OP	Increasing the number of teaching staff studying in the target master's program, intensifying the work of teachers who do not have an academic title
6	Low number of publications in cited journals	Increase in the number of articles in scientific journals
7	Lack of funded research topics.	Increasing the number of projects on research topics

## 5. Action plan for the development of the OP

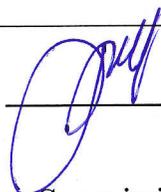
№	Criteria	Expected results	Units. Units.	2024- 2025	2025- 2026
<b>Direction 1. Educational and methodological support</b>					
1.1	Updating the educational program based on professional standards, taking into account the recommendations of employers	Conducting an expert examination of the Educational Program "7M09102 - "Veterinary sanitation in order to increase практикоориентированthepractice orientation and develop professional competencies of graduates.	fact.	-	-
1.22	Monitoring and updating catalogs of elective subjects in accordance with the development of key and professional competencies, labor market requirements	Improving the quality of educational programs content by including elective courses aimed at developing key and professional competencies of graduates in accordance with labor market requirements.	fact.	+	+
1.3	introduction in the educational process of modern educational technologies, contributing to the development of cognitive activity, communicative abilities of students	improving the quality of teaching disciplines, given the novelty and variety of forms of work, contributing to the development of cognitive activity.	fact.	+	+
1.4	involvement of the social partners and employers to the design, examination and implementation of educational programs	improve the quality of educational programs tailored to the needs of the market and recommendations from employers.	ed.	2	3
1.5	Development and implementation of elective courses in English	introduction in the educational process subjects in English.	ed.	-	-

1.6	seminars and round tables on the application of innovative technologies in the educational process	, the Introduction of innovative technologies in the educational process.	ed.	3	3
1.7	a Publication of educational, educational-methodical and scientific literature in the ongoing OP	Improvement of educational and methodological provision in the disciplines of educational programs.	ed.	1	2
1.8	Conclusion of contracts with foreign and domestic universities - partners with the aim of developing academic exchange of students of all levels and teachers	to create a database of domestic and foreign partner Universities for the development of academic exchange of students of all levels and faculty.	ed.	1	1
1.9	Invitation to students from partner Universities to study at term, short term training, practice etc.	Development of international recognition of educational programs, implementation of academic mobility programs for students.	pers.	2	1
1.10	Participation of teaching staff and students in international academic exchange programs	Development of international cooperation with foreign universities implementing educational programs in the field of Veterinary sanitation.	pers.	1	1
1.11	Development of outgoing academic mobility of teaching staff and students in the direction of Veterinary sanitation	Improvement of the educational program based on the use of experience in implementing similar programs in leading universities of the Republic of Kazakhstan.	people	1	1
<b>Direction 2. Teaching staff</b>					
2.1	Professional development and training of scientific-and pedagogical personnel for the implementation of educational programs once every 5 years	The share of teaching staff who have completed advanced training at the national level at least 20%	of people.	1	2

2.2	Completion of advanced training, retraining, internships of teaching staff at the international level	Completion of less than 2 teachers of the program of advanced training, retraining, internships of teaching staff at the international level.	pers.	-1	1
2.3	Promotion of publications of teaching staff's works in international publications indexed Web of Science by the Web of Science and Scopus databases Scopus	Increase in the share of teaching staff who published the results of scientific research in indexed by the Web of Science and Scopus databases – at least 30% of the total number of teaching staff.	%	1	2
2.4	Involvement of practical specialists in teaching and research activities	Participation of practical specialists in the implementation of educational programs (at least 20% of specialists).	%	2	3
<b>Direction 3. Internationalization of educational programs</b>					
3.1	Conclusion of contracts for international cooperation with foreign universities	Implementation of joint projects, preparation of scientific publications with foreign partners, creation of bases for scientific internships of students	units.	1	1
3.2	Attracting foreign students to study under the educational program 7M09102 - "Veterinary sanitation".	Increase in the number of foreign students.	pers.	1	1
3.3	Organization of joint scientific and practical events with international partners	Increase in the effectiveness of scientific and methodological activities of teaching staff, exchange of experience with foreign partners.	units.	1	1
3.4	Invitation of foreign specialists to give lectures and consultations on doctoral projects and dissertations	Improvement of the content component of educational programs based on the introduction of the experience of foreign specialists in the implementation of educational programs.	Units.	1	2
3.5	Expansion of cooperation with Leading foreign scientific and educational organizations in order to attract the most qualified foreign specialists to the implementation of educational programs	Formation of key and professional competencies in accordance with the practice of leading universities.	people	1	1

<b>Direction 4. Material and technical support and digitalization</b>					
<b>4.1</b>	Step-by-step equipping of classrooms with technical training tools (projectors, panels, interactive and multimedia whiteboards, multifunction devices, web camera, projector screen, etc.)	Equipping classrooms assigned to the department with technical training facilities (projectors, panels, interactive and multimedia whiteboards, multifunctional devices, a webcam, a projector screen	units.	2	3
<b>4.2</b>	Automation of the educational process (testing, session management, movement of the contingent of undergraduates, dean's office, department, faculty workload, schedule, library, syllabuses)	Information management based on automation of the educational process (testing, session management, movement of the contingent of undergraduates, dean's office, department, teaching staff load, schedule, library, syllabus)	fact.	100 %	100 %
<b>4.3</b>	Updating the full-text database of research results of teaching staff and students, teaching staff (articles, monographs, etc.)	Increasing the number of results of scientific works of scientists, research of teaching staff and students, teaching staff (articles, monographs, etc.)	units.	2	3
<b>4.4</b>	Expanding the fund of scientific and educational literature, including on electronic media for educational programs implemented	Ensuring the implementation of educational programs based on modern educational and information resources, including on electronic media	%	100	100
<b>4.5</b>	Monitoring of the content and improvement of the website of the Research School of Veterinary Medicine and Agriculture	Formation of the website of the research school of veterinary medicine and agriculture on various aspects of the implementation of educational programs.	%	100	100

Head of the Department

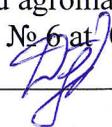


A. Akhmetzhanova

**CONSIDERED**

at a meeting of the Faculty Quality Assurance Commission  
veterinary medicine and agromanagement

Minutes of the meeting № 6 at 06.06.2024 r.

Chairman of the QAC  G.I. Dzhamanova

**COORDINATED**

Dean of the RSchVMA  N. Yesengulova  
06.06.2024 r.