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Registration data

Application type	Updating of EP in the Registry	Status	Approved
Date of getting the status	11.06.2025 14:31	Sent to rework by the expert (count)	0
Sender	6710	Registration number	6B08100014

[Educational program passp](#)

Higher and Postgraduate Educational Programs

☐ Project EP ☐ Participant of project EP

Field of education *

6B08 Agriculture and Bioresources

☐ Interdisciplinary EP

Direction of personnel training *

6B081 Agronomy

Group of educational programs *

B077 Crop production

Educational program *

6B08101 Agronomics

Curriculum *

Агрономия (бакалавриат)

Kazakh language

Russian language

English language

EP purpose *

Training of highly qualified specialists with subject-specific competencies in professional activities in the cultivation of crops, rational use of natural and material resources, storage of crops, primary processing of crop production as well as processing of agricultural enterprises of the agro-industrial complex of various forms of ownership, contributing to its social mo

EP type *

New EP

Level on NQF *

6

Level on SQF *

6

EP distinctive features

No

Degree to be conferred *

Bachelor

Period of study *

4

Volume of the credits *

240

Language of education *



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English

Professional Standard for EP *

Exists

+ Add

Nº	Name of professional standard
1	Cultivation of sugar beet and its seeds
2	Production of greenhouse vegetables and berries
3	Nursery garden activities
4	Growing vegetables and potatoes

Professional standards (career standards)

Professional standard has been used at developing EP

Professional standard №1

Professional standard	Деятельность питомников
Approval year	2022
CCEA	,

Professions

Profession №1

Profession	
Уровень по ОРК	6
Labor functions	

Professional standard №2

Professional standard	Выращивание сахарной свеклы
Approval year	2022
CCEA	

Professions

Profession №1

Profession	
Уровень по ОРК	6
Labor functions	

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ВЫСШЕГО ОБРАЗОВАНИЯ

English

Professional standard

Выращивание овощей и картофе

Approval year

2022

CCEA

,

Professions

Profession №1

Profession

Уровень по ОРК

6

Labor functions

Professional standard №4

Professional standard

Производство тепличных овоще

Approval year

2022

CCEA

Professions

Profession №1

Profession

Уровень по ОРК

6

Labor functions

Date of approval EP on the Academic Council *

15-04-2025

☒Existence of the annex to the license for the direction of personnel training

The license number on the direction of training *

KZ49LAM00007465

☐The training format is online

☒EP accreditation existence

Atlas of new professions *

не предусмотрено

Regional standard *

[Специалист по новым технологиям в сельском хозяйстве https://enic-kazakhstan.edu.kz/files/1744378861/r1-oblysy.pdf](https://enic-kazakhstan.edu.kz/files/1744378861/r1-oblysy.pdf)



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Nº	Educational outcome	Code	Reflects the labor fun
1	In Kazakh In Russian In English Биотехнологиялық әдістермен жасалған өсімдіктердің интродукциясының салдарын болжайды; маңызды ауыл	ON1	
2	In Kazakh In Russian In English Жердің ауыл шаруашылығы дақылдарын өңдеу үшін жарамдылығын бағалау; топырақ құнарлылығын қалпына	ON2	
3	In Kazakh In Russian In English Өсімдіктердің микроклональды көбеюі мен сауығуы, жасуша селекциясы, өсімдік селекциясындағы молекулалық	ON3	
4	In Kazakh In Russian In English Ауыл шаруашылығы дақылдарының аурулары мен зиянкестеріне қарсы күрес әдістерін талдау және қолдану;	ON4	
5	In Kazakh In Russian In English Аймақтарда ауыл шаруашылығын метеорологиялық қамтамасыз етудің қазіргі заманғы тәсілдерін пайдаланады;	ON5	
6	In Kazakh In Russian In English Өсімдік шаруашылығы, мал шаруашылығы, егіншілік, селекция және тұқым шаруашылығы, өсімдіктерді қорғау	ON6	
7	In Kazakh In Russian In English Құқықтық, экономикалық, кәсіпкерлік, өндірістік, экологиялық ортада, сондай-ақ қаржылық сауаттылық,	ON7	
8	In Kazakh In Russian In English Табиғи ортаның сапасын химиялық көрсеткіштер бойынша бағалау; агроландшафттағы топырақтың химиялық құрамы	ON8	
9	In Kazakh In Russian In English Жеміс бау-бақшасы, жеміс және көкөніс питомнигінде агротехникалық жұмыстарды ұйымдастырады; негізгі	ON9	
10	In Kazakh In Russian In English Өртүрлі дереккөздер мен дерекқорлардан ақпаратты іздеуді, сақтауды, өңдеуді және талдауды жүзеге асыру, оны	ON10	
11	In Kazakh In Russian In English Автомобильдер мен тракторлардың, олардың механизмдері мен жүйелерінің конструкциясын бағалайды; машина-	ON11	

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ЕДИНАЯ ПЛАТФОРМА
ВЫСШЕГО ОБРАЗОВАНИЯ

English

12

In Kazakh

In Russian

In English

Жаңа сорттарды, технологиялық әдістерді, тыңайтқыштарды, өсімдіктерді қорғау құралдарын

ON12

Data on disciplines

№	Name of discipline	Short description of discipline	Cycle	Component	Credits			
						ON1	CR	ON:
1	Fundamentals of financial literacy	The course «Fundamentals of Financial Literacy» is aimed at gaining knowledge and skills in the field of personal finance management. Also, as part of the course, students will learn how to use in practice all kinds of tools in the field of finance, save and increase savings, plan a budget competently, learn how to analyze financial information and navigate financial products to choose an adequate investment strategy.	GED	EC	5	☐		☐
2	Methods of scientific research	The goal is to form knowledge about the principles, technologies, practical methods and techniques of conducting scientific research based on modern achievements of scientists. Forms the basic foundations of scientific culture and ethics, flexible perception of scientific texts, skills of effective application of acquired knowledge in planning and organizing research work, the ability to analyze and summarize research results.	GED	EC	5	☐		☐
3	Ilyastanu	The purpose of the discipline is to develop a deep-thinking personality with high aesthetic taste, appreciating literature, art, traditions, culture and language of the Kazakh people through a deep and comprehensive study of the works of Ilyas Zhansugurov. Forms an understanding of the importance of the works of Ilyas Zhansugurov in the development of the Kazakh literary language; skills of intellectual and creative thinking, the ability to cherish the values of national and spiritual heritage.	GED	EC	5	☐		☐

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4	Basics of law and anti-corruption culture	The objective is to familiarize students with the fundamental branches and institutions of law, the foundations of anti-corruption culture, as well as the patterns of emergence, development, and functioning of the state and law. The course cultivates anti-corruption awareness and a high level of theoretical knowledge concerning the primary functions of law within the state and society, its impact on the development of the rule of law and civil society, and the value of inclusion as an integral component of a just and equitable legal order. Particular emphasis is placed on fostering students' understanding of the importance of human rights for all individuals, regardless of their social, cultural, physical, or other characteristics.	GED	EC	5	☐	☐
5	Ecology and life safety basics	Purpose – the goal is to develop knowledge of the fundamentals of ecology, sustainable development, and life safety, enabling the analysis of ecological processes, the assessment of the socio-environmental consequences of anthropogenic activities, the assurance of environmental safety, and the application of methods and technologies for protection in emergency situations. Develops the ability to assess the impact of environmental factors on human health; to forecast ecological processes for planning and implementing measures aimed at enhancing life safety and ensuring environmental security; and to make informed decisions in adverse environmental and emergency situations, taking into account the potential consequences of accidents, disasters, and natural hazards within the framework of sustainable development principles.	GED	EC	5	☐	☐

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		Objective – to familiarize students with the economic challenges of modern society, develop economic thinking, and provide knowledge of the theoretical foundations and practical skills in the field of entrepreneurship. The program is aimed at forming a comprehensive understanding of the functioning of the economy, while delivering business education focused on acquiring applied competencies in various areas of entrepreneurial activity. Special attention is given to issues of sustainable development, efficient resource use, and the implementation of lean production principles as key elements of effective and environmentally responsible business practices. The course also explores the specifics of creating and successfully managing a business, taking into account modern requirements for environmental and social responsibility in entrepreneurship.					
6	Economics and entrepreneurship		GED	EC	5	☐	☐
7	Agrometeorology	Studies the structure of the atmosphere, the movement of air masses, radiation and thermal balance, meteorological elements (temperature, humidity, precipitation, evaporation of moisture, wind direction and speed, etc.); climate and forecasts of their changes; methods and technical means of measuring meteorological data.	BD	UC	5	☐	☐
8	Biotechnology of Agricultural plants	Considers modern technologies for the creation of new varieties of cultivated plants, ways to improve their productivity, resistance to adverse environmental factors, as well as the quality of plant products based on cellular and genetic engineering methods.	BD	UC	5	☒	High ☐
9	Systematics of agricultural crops	The discipline prepares students for communication in oral and written form in English to solve the problems of professional activity. Students learn the terminology in biology, botany, agronomy and ecology, as well as knowledge of the main types of speech activity (speaking, reading, listening and writing) in English.	BD	UC	5	☐	☐
10	Physiology of agricultural plants	Examines the current state of knowledge about the general laws of plant activity; identification of the relationship between the main biological processes among themselves, as well as the dependence of these processes on environmental conditions.	BD	UC	4	☐	☐

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11	Regional Agricultural Systems	Considers ways of managing the rational use of agro-natural resources and environmental protection, and economically rational allocation of agricultural production.	BD	UC	6	☐		☒
12	Crop production	Considers technologies for growing crops to produce products that meet human needs in food, animal feed, raw materials for the processing industry; includes sections: field farming, vegetable growing, horticulture, viticulture, feed production.	BD	UC	5	☐		☐
13	Soil science	Studies the soil, its structure, composition, properties and geographical distribution; patterns of its origin, development, functioning and role in nature; ways and methods of increasing fertility, protection and rational use	BD	UC	6	☐		☒
14	Agribusiness planning and design	Studies methods of project preparation based on the processing of initial information and includes the selection of goals, identification of means and ways to achieve them through a comparative assessment of alternatives and the adoption of the most realistic of them in the expected development environment.	BD	EC	5	☐		☐
15	Research methods in agronomic sciences	The discipline prepares students for communication in oral and written form in English to solve the problems of professional activity. Students learn the terminology in biology, botany, agronomy and ecology, as well as knowledge of the main types of speech activity (speaking, reading, listening and writing) in English.	BD	EC	5	☐		☐
16	Economic analysis of agricultural enterprise activity	Studies theoretical foundations of Economics and development trends, economic analysis of agricultural production, organizational-economic bases of functioning of agricultural organizations, the basic technology of agricultural production, the economy and technology of crop production and agricultural products and production	BD	EC	5	☐		☐
17	Agricultural production technology	The purpose of the discipline is to master the knowledge, practical skills and skills of students in accordance with the formed competencies for mastering the reduction of product consumption in the production and processing of crop production, improving the efficiency of storage and processing of products, expanding the range of products.	BD	EC	5	☐		☐



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18	Agricultural geoinformatics	Learning the basics of Geoinformatics as a science, technology and production activity; obtaining special knowledge in the field of geoinformation technologies, methods of creating and using geoinformation systems; mastering practical skills in working with applied geoinformation packages and capabilities	BD	EC	5	☐		☐
19	Agricultural statistics	Studies methods and techniques for collecting information, analyzing data, establishing links and making forecasts; using the necessary information about the state and development of all economic and social phenomena and processes occurring in the country; using statistical information for decision-making.	BD	EC	5	☐		☐
20	Legume cultivation technology	Studies the technologies of growing legumes in crop crops most typical of the respective growing areas, the areas of their cultivation. Chemical composition of seeds. Biological features. Nitrogen fixation from the air and conditions that increase its activity. Modern technology of growing peas, soybeans and lupine	BD	EC	5	☐		☐
21	Basics of genetic engineering	Studies a set of techniques, methods and technologies for obtaining recombinant RNA and DNA, the isolation of genes from the body (cells), the manipulation of genes, their introduction into other organisms and growing artificial organisms after the removal of selected genes from DNA.	BD	EC	5	☒	Norm	☐
22	Grain cultivation technology	Studies the latest technologies of growing crops, the impact of each technological scheme of cultivation on the preservation of soil fertility, phytocenosis, yield and quality of products, the possibility of reducing the cost of production while reducing production costs for the use of a certain technology of cultivation	BD	EC	5	☐		☐
23	Innovation technologies of non-traditional crops cultivation	The purpose of the discipline is to study innovative technologies of cultivation of non-traditional crops by students. Has scientific and technical information and documentation on the practical application of exploration technologies.	BD	EC	5	☐		☐



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24	Fundamentals of field crop seed science	knowledge in the field of agronomy studies schemes and constructive rules for the organization of agricultural crops on land.Agrometeorology, "Mathematics", "Computer Science". It is necessary to master this subjectBased on the knowledge gained during the study of the discipline Basic departments of training of agronomists "Botany", "Soil Science",	BD	EC	4	☐	☐
25	General chemistry	Considers sections: Atomic-molecular doctrine. Basic chemical concepts and laws. Classification and nomenclature of inorganic compounds. Atomic structure. Chemical bonds. Energy and direction of chemical processes. The rate of chemical reactions. Chemical equilibrium. Solutions. Theory of electrolytic dissociation. Oxidation-reduction reactions. Electrode process.	BD	EC	4	☐	☐
26	Fundamentals of artificial intelligence	The discipline is aimed at studying the basic concepts, methods and algorithms underlying the creation and application of artificial intelligence. Within the framework of this discipline, students study the theoretical foundations of machine learning, neural networks, natural language processing algorithms and computer vision. They also get acquainted with the ethical, social and legal aspects of the use of artificial intelligence in various spheres of life.	BD	EC	5	☐	☐
27	Organization of land territories	The discipline studies the basic rules of the organization of a land plot and makes the most effective design decisions; performs the necessary design calculations, including the use of computer technology; when solving land management tasks, uses knowledge of land law, geodesy, soil science and other related disciplines; forms documents on the delimitation of land management objects; monitors the use of land management objects for various target purposes analyzes the accuracy of the distinction.	BD	EC	5	☐	☒



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28	Land management	The discipline studies the basic land management and makes the most effective design decisions; performs the necessary design calculations, including the use of computer technologies; uses knowledge of land law, geodesy, soil science and other related disciplines in solving land management problems; forms documents on the delimitation of land management objects; analyzes the accuracy of the delimitation of land management objects for various target purposes.	BD	EC	5	☐		☒
29	Land amelioration	Studies the ways of rational use of land and protection from erosion, the timing of irrigation, irrigation regime of crops, irrigation water quality, negative processes occurring during irrigation and methods of their elimination, patterns of reproduction of soil fertility and methods of its effective use to obtain high and sustainable yields.	BD	EC	5	☐		☒
30	Cultivation technology of adapted tropical and subtropical crops to climate of Kazakhstan	The purpose of the discipline is to study the technology of cultivation of tropical and subtropical crops adapted to the climate of Kazakhstan. Use the latest achievements of world science and advanced technology in scientific research.	BD	EC	5	☐		☐
31	Technology of cultivation of oilseeds	The purpose of the discipline "agricultural machinery and technology" is to train competitive specialists who are able to work with scientific and technical information and documentation on the practical application of digital technologies in agriculture, to introduce advanced domestic and foreign experience in digitalization in the agricultural industrial complex.	BD	EC	5	☒	High	☐
32	Introduction to the specialty	The discipline studies the basic land management and makes the most effective design decisions; performs the necessary design calculations, including the use of computer technologies; uses knowledge of land law, geodesy, soil science and other related disciplines in solving land management problems; forms documents on the delimitation of land management objects; analyzes the accuracy of the delimitation of land management objects for various target purposes.	BD	EC	4	☐		☐

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33	Organic chemistry	Studies the classification and rules of the nomenclature of organic compounds; the relationship of the structure and chemical properties of organic substances; chemical and physical properties of the main classes of organic compounds; the use of organic compounds in printing and packaging.	BD	EC	4	☐		☐
34	Technology of storage and processing of crop products	The purpose of the discipline is to form students' knowledge, practical skills and acquire skills to reduce product losses during storage and processing, storage and processing of crop products, to master skills in accordance with the competencies being formed to improve the efficiency of storage and processing of products, expand the range of products.	BD	EC	5	☐		☐
35	Genetics rastenium	He studies the methods of genetic research, the material foundations of pleasure. Analyzes the mechanism of differentiation of prokaryotes and eukaryotes, recognition and principles of pleasure, patterns of pleasure, variability, its causes and research methods, genetic foundations of ontogenesis, mechanism of gene differentiation, effects and interactions, genotype and phenotype, stages and critical stages of ontogenesis.	BD	EC	5	☐		☐
36	Plant quarantine	Studies the system of state measures aimed at protecting the countrys plant resources from importation and preventing the spread of quarantine objects and other particularly dangerous plant pests established by the relevant authorities of each country.	BD	EC	5	☐		☐
37	Plant Breeding and Seed Breeding	Considers technologies for breeding non-growing and disease-resistant varieties and hybrids of grain crops for their cultivation on irrigated and drained lands, as well as in the application of high doses of mineral fertilizers, providing high-quality varietal seeds of all cultivated crops.	BD	EC	5	☐		☐
38	Plant Protection	Studies theoretical and methodological bases of actions for fight against the organisms causing damage to crops and landings in the open and (or) protected soil, the cultivated grounds and natural vegetation.	BD	EC	5	☐		☐

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39	Research of plant varieties	The course studies the concept of a variety, the source material and methods of its creation, the types of plant breeding, , the methods of selection and evaluation of breeding material, the organization of the selection process, the state variety testing and regionalization of varieties and hybrids, varietal and seed control in seed cultivation of field crops, varietal change and varietal renewal.	BD	EC	5	☐		☐
40	Irrigated agriculture	The purpose of the discipline is to study innovative technologies of cultivation of non-traditional crops by students. Has scientific and technical information and documentation on the practical application of exploration technologies.	BD	EC	5	☐		☒
41	Technology of growing root tuber crops	The purpose of the discipline is to form students ' knowledge, practical skills andpossess the skills to reduce product losses during storage and processing, storage and processing of crop products, to master the skills in accordance with the formed competencies to improve the efficiency of storage and processing of products, to expand the range of products.	BD	EC	5	☐		☐
42	Phytopathology	Studies the main species compositions of plant diseases, classification of diseases form knowledge about the principles, methods of diagnosis, patterns of development of the pathological process, the relationship of pathogenic plants in specific environmental conditions, the nature of plant immunity and the role of genetic factors in the inheritance of this property in plants, modern control measures used in conditions of real damage	BD	EC	6	☐		☐
43	Entomology	Studies the characteristics of insects: the structure of their body, organ activity, lifestyle, diversity of forms and relationship with the environment; the role of insects in various processes occurring in the biosphere, the importance of insects in human life; features of agricultural, forestry and medical entomology	BD	EC	6	☐		☐
44	Agriculture	Studies the general techniques of cultivating crops and the development of the most rational ways of using land and increasing effective soil fertility in order to increase crop yields.	PD	UC	5	☐		☒

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45	Horticulture	Studies the main agrotechnical measures used to increase the productivity of vegetable crops: the use of high-quality seeds of the most productive varieties and hybrids; the development of horticulture in polar climatic zones and in contradictory weather conditions as well as in places located geographically near large cities with large industrial facilities.	PD	UC	5	☐		☐
46	Fundamentals of animal husbandry	The discipline "fundamentals of animal husbandry" is the development of animal husbandry, feed and animal hygiene. He knows the methods of breeding, mating and improving the pedigree qualities of breeding animals, a fertile feeding system and care data in accordance with zoohygienic requirements necessary in practice for high quality	PD	UC	4	☐		☐
47	Agricultural machinery and technology	Studies the methods of using heterogeneous, but complementary machines and tools that provide a comprehensive mechanization of all work in individual sectors and in agriculture as a whole; the basics and principles of mechanization, agricultural production; the use of machine-tractor units and the development of operational technologies and rules of mechanized works.	PD	EC	5	☐		☐
48	Agrochemistry	Studies the scientific bases, receptions and methods of optimization of mineral nutrition of agricultural crops on the basis of rational application of fertilizers and meliorants, development, development and control of modern systems of fertilizer taking into account soil fertility and climatic, economic and economic conditions	PD	EC	6	☐		☐
49	Use of equipment and machines in agriculture	Studies the device of tractors and cars, the principles of operation of their main units and mechanisms, the device of basic agricultural machines and their use in the cultivation of crop production; - the basics of preparation of tractors and agricultural machines to work	PD	EC	5	☐		☐
50	Agricultural Microbiology	Studies general knowledge and practical skills in microbiology (the study of various groups of saprophytic and pathogenic microorganisms, their morphology, systematics and physiology, the influence of environmental factors, the vital activity of microorganisms and the role of microorganisms in changing substances	PD	EC	5	☒	High	☐

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English

51	Field feed production	Studies the questions of formation of species composition of plants used for feeding of farm animals; organization of forage base, preparation of forages of plant origin in various natural and economic zones of the country	PD	EC	5	☐		☐
52	General microbiology with the basics of virology	The common microbiology with the basics of virology is the formation of systemic knowledge and skills in the field of microbiology related to the peculiarities of the vital activity of microorganisms. The course includes the study of basic concepts and methods of microbiology, problems of bacterial metabolism, their growth, reproduction, systematization, nutrition, energy, health, environmental protection.an environment using microorganisms in modern biotechnology.	PD	EC	5	☒	High	☐
53	Feed production	Studies the theoretical foundations and practical methods of obtaining high and sustainable yields of forage crops on arable land, as well as improving the natural and the creation of sown hayfields and pastures, their proper use.	PD	EC	5	☐		☐
54	Technology of growing vegetables in a greenhouse	The purpose of the discipline is to study innovative technologies of cultivation of non-traditional crops by students. Has scientific and technical information and documentation on the practical application of exploration technologies.	PD	EC	6	☐		☐
55	Innovative technologies in crop production	The purpose of the discipline is to study the technology of cultivation of tropical and subtropical crops adapted to the climate of Kazakhstan. Use the latest achievements of world science and advanced technology in scientific research.	PD	EC	6	☐		☐
56	Chemistry of soil and mineral nutrition of plants	Study of the origin, composition and properties of the organic and mineral parts of the soil, its physical, chemical, physico-chemical and biological properties; assessment of soil properties and regimes, their fertility according to suitability for growing main crops; assessment of physiological, physico-chemical and biological processes of plant nutrition in the agroeco system, taking into account soil and climatic conditions and application of modern methods for the study of biochemical aspects.	PD	EC	6	☐		☐

EO attainability coefficient: 84,82 %

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Expertise

11.06.2025 14:31

Basis for updating of EP *

Дополнены описания дисциплин на трех языках «Основы права и антикоррупционная культура», «Экология жизнедеятельности», «Основы экономики и предпринимательства» с учётом формирования ценностей устойчивого инклюзивного образования.