

MINISTRY OF SCIENCE AND HIGHER EDUCATION
REPUBLIC OF KAZAKHSTAN
KAZAKH AUTOMOBILE AND ROAD INSTITUTE
NAMED AFTER L.B.GONCHAROV
FACULTY OF "ROAD"

Approved
by the Academic Council of KazADI
31 " 05 2022.
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**Competence model of the graduate
of the educational program 6B04101 «Economy»**

Almaty, 2022


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The competence model of the graduate of the educational program 6B04101 - "Economics" was discussed at the meeting of the Department of Economics and recommended by the L.B.Goncharov KazADI UMS

Protocol No. 10 of "20" 05 2022 Head of the Department "Economics"  Kalgulova R.Zh.

The competence model of the graduate of the educational program 6B04101 "Economics" was considered at a meeting of the Educational and Methodological Council of KazADI and recommended for approval.

Protocol No. 9 of "24" 05 2022 Chairman of the UMS  Murzakhmetova U.A. .

1. GENERAL PROVISIONS

1.1. The competence model meets the requirements of the SES HPE in the direction 6B041 "Business and management"

1.2. The main users of the competence model are:

1.2.1 Associations of specialists and employers in the relevant field of professional activity.

1.2.2 The teaching staff of the Institute responsible for the qualitative development, effective implementation and updating of the main educational programs, taking into account the achievements of science, technology and the social sphere in this area and the level of training.

1.2.3 Students mastering the educational program of the university aimed at the formation of these competencies.

1.2.4 Vice-rectors responsible within their competence for the quality of graduate training.

1.3. The competence model is the basis for designing the content of the direction within the framework of the educational program "Economics".

2. COMPETENCE MODEL

1. Information sources of the competence model of the graduate of the educational program 6B04101 — "Economics":

- "Qualification directory of positions of managers, specialists and other employees", approved by the Order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated May 21, 2012, No. 201 (with amendments No. 553 dated December 30, 2020);

- results of a survey of academic experts;

- results of a survey of employers.

2. Scope and objects of professional activity:

2.1 The sphere of professional activity.

-the sphere of professional activity is state bodies, institutions and economic entities of all forms of ownership, management bodies of state regulation of the economy, research institutions. 2.2 The objects of professional activity are economic, production and economic and analytical services of organizations and enterprises of the road and construction industries, regardless of the form of ownership, categories of participants (residents and non-residents of the Republic of Kazakhstan), organizational and legal forms, state bodies of the republican and local levels; research institutes.

2.3 The subjects of professional activity of graduates are: The subject of professional activity is the study of actions and forms of manifestation of general, private and specific economic laws for the development of economic processes in specific conditions of an industry or an individual enterprise, as well as conditions and factors for identifying reserves to ensure the achievement of the best results at optimal costs in the field of management and organization of production, management research on various areas of the organization's activities for making strategic management decisions.

2.4 Typical tasks of professional activity of graduates are: - mastering a wide range of theoretical and practical knowledge in the professional field;

- education of a competent and competitive personality with the potential for self-development, and quickly adapting to the changing conditions of the economy; - obtaining a full-fledged, high-quality basic education in the field of economics, management and organization of production of road and strip industries ;

- acquisition of a high general intellectual level of development, mastery of literate and developed speech, humanitarian culture, high moral, ethical and legal norms, culture of thinking and skills of scientific organization of work;
- competitiveness of specialists in the labor market.

Production and technological activities:

- development and application of management technology in a specific organization; - development of planning procedures, personnel management, investment, innovation and environmental management;
- conducting foreign economic activity in organizations and enterprises;
- participation in the creation of scientific, methodological, organizational and technological management base;
- organization of production, provision of the technological process with the necessary resources;
- analysis of the effectiveness of management decisions, implementation of controlling across the entire spectrum of production and management activities.
- preparation of technical documentation at production sites;

Organizational and managerial activities:

- participation in the development of state programs for the development of the road and construction industries;
- ensuring the implementation of production programs, projects, and enterprise development strategies;
- organization, planning and coordination of enterprise management activities and formation of the company's market strategy;
- development of measures to improve the organization of the activities of all departments, including: planning, forecasting, cost management and logistics, sales;
- planning and implementation of foreign economic activity;
- planning management, implementation of work on the examination of project, pre-project documentation in terms of its compliance with international standards;
- conducting analytical calculations on fixed assets and materials, rationing of expenditure items;
- control of all types of economic, organizational and managerial activities;
- monitoring compliance with regulations and standards of rational use of natural resources and environmental protection;
- introduction of innovations in the field of tangible and intangible production.
- organization of work of small teams of performers engaged in oil and gas production; - preparation of technical documentation (work schedules, instructions, plans, applications for materials and equipment, etc.);
- analysis and evaluation of production and non-production costs to ensure the required product quality;
- analysis of the results of the activities of production units;
- preparation of initial data for the selection and justification of scientific, technical and organizational solutions;
- preparation of documentation for the creation of a quality management system at the enterprise;
- carrying out organizational and planned reorganization of production sites.

Design and engineering activities:

- participation in the creation of scientific, methodological, organizational and technological management base;
- organizational design and feasibility study of projects.
- execution of individual elements of projects at the stages of preliminary, technical and operational design; control of compliance of developed projects and technical documentation with standards, specifications and other regulatory documents;

- conducting a preliminary feasibility study of design solutions.

Research activities:

- the research activities of bachelors in this field of training are carried out both within the research programs of higher educational institutions and as part of the relevant research groups of research institutes, industrial enterprises and corporations. A special place is given to international programs of scientific cooperation in the field of economics, organization, management;
- study of scientific and technical information, domestic and foreign experience in the direction of research in the field of road and construction industries;
- conducting experiments according to specified methods, processing and analyzing the results; carrying out technical changes, compiling descriptions of ongoing research, preparing data for scientific reviews and publications;
- participation in the preparation of scientific reports on the completed task and on the implementation of research and development results in the field of road and construction industries.

3. KEY COMPETENCIES

The results of mastering the educational program of higher education are determined by the competencies acquired by the graduate, that is, his ability to apply knowledge, skills and personal qualities in practice in accordance with the tasks of professional activity. As a result of mastering the educational program of higher education in the direction of training 6B04101 "Economics", the graduate must have the following competencies:

a) general cultural (OK):

- the ability to use the basics of philosophical knowledge to form a worldview position;
- the ability to analyze the main stages and patterns of the historical development of society for the formation of a civic position;
- the ability to use the basics of economic knowledge in various fields of activity;
- ability to communicate orally and in writing in Russian and foreign languages to solve problems of interpersonal and intercultural interaction;
- the ability to work in a team, tolerantly perceiving social, ethnic, confessional and cultural differences;
- the ability to use the basics of legal knowledge in various fields of activity;
- ability to self-organization and self-education;
- the ability to use methods and means of physical culture to ensure full-fledged social and professional activities;
- the ability to use first aid techniques, methods of protection in emergency situations.

b) general professional (MIC):

- the ability to solve standard tasks of professional activity on the basis of information and bibliographic culture with the use of information and communication technologies and taking into account the basic requirements of information security;
- the ability to collect, analyze and process data necessary for solving professional tasks;
- the ability to choose tools for processing economic data in accordance with the task, analyze the results of calculations and justify the conclusions;
- the ability to find organizational and managerial solutions in professional activities and the willingness to take responsibility for them;

c) professional (PC):

settlement and economic activity:

- the ability to collect and analyze the initial data necessary for the calculation of economic and socio-economic indicators characterizing the activities of economic entities;

- the ability to calculate economic and socio-economic indicators characterizing the activities of economic entities on the basis of standard methods and the current regulatory framework;

- the ability to perform calculations necessary for the preparation of economic sections of plans, justify them and present the results of work in accordance with the standards adopted in the organization;

analytical, scientific and research activities:

- the ability to build standard theoretical and econometric models based on the description of economic processes and phenomena, analyze and interpret the results in a meaningful way;

- the ability to analyze and interpret financial, accounting and other information contained in the reports of enterprises of various forms of ownership, organizations, departments, etc. and use the information obtained to make management decisions;

- the ability to analyze and interpret the data of domestic and foreign statistics on socio-economic processes and phenomena, to identify trends in socio-economic indicators;

- the ability, using domestic and foreign sources of information, to collect the necessary data, analyze them and prepare an information review and/or analytical report;

- the ability to use modern technical means and information technologies to solve analytical and research problems;

organizational and managerial activities:

- the ability to organize the activities of a small group created for the implementation of a specific economic project;

- the ability to use modern technical means and information technologies to solve communication problems;

- the ability to critically evaluate the proposed options for management decisions and develop and justify proposals for their improvement, taking into account the criteria of socio-economic efficiency, risks and possible socio-economic consequences.

The educational program of higher education provides that the acquisition of a specific competence by a student occurs as a result of his study of several disciplines and practical training. The transition from the graduate's competencies to the content of the main professional educational program is carried out on the basis of the decomposition of competencies into knowledge, skills and abilities in the disciplines of the basic and variable parts. The results of the development of competence (to know, to be able, to own) are presented in the work programs of the disciplines of the curriculum.

As a result of mastering the bachelor's degree program, a graduate of the L.B.Goncharov KazADI should have formulated general education, basic and profiling competencies

The general scheme of the formation of students' competencies during the development of the educational program

General education competencies	Learning result
<p>KK1: Possess knowledge about the main stages and patterns of the historical development of the state, show active citizenship, patriotism, respect and tolerance for the culture and traditions of the peoples of Kazakhstan.</p>	<p>ON1: Apply scientific methods and techniques to study the modern history of Kazakhstan, as well as the entire socio-political cluster</p>
<p>KK2: Is able to use language and speech means based on the system of grammatical knowledge of Kazakh, Russian and foreign languages to solve problems of interpersonal, intercultural and professional</p>	<p>ON2: To use the ideological, civil and moral positions of the future specialist, applying information technology, knowledge of Kazakh, Russian and foreign</p>

<p>interaction.</p> <p>KK3: Develop your own moral and civic position. Know the requirements of professional ethics and willingness to act in accordance with these requirements, work in a team, finding solutions in standard situations.</p> <p>KK4: Be able to critically rethink the accumulated experience, change, if necessary, the type and nature of their professional activities.</p> <p>KK5: Possess the skills to acquire new knowledge and skills necessary for the implementation of professional activities, have high motivation to perform tasks, strive for self-development, professional development and professional skill growth.</p> <p>KK6: Carry out scientific research, project activities, use scientific methods and research techniques in a specific field of science.</p> <p>KK7: Demonstrate mastery of the culture of written and oral speech, the ability to present their position in a reasoned manner.</p> <p>KK8: Able to creatively apply the acquired theoretical and practical knowledge in professional activities.</p> <p>KK9: Know the basics of entrepreneurship, production and business management in order to obtain the expected results in a specific area.</p> <p>KK10: Able to show business and innovative activity in the intended area to solve the tasks.</p> <p>KK11: Possesses the conceptual apparatus and terminology in the field of economics, economic laws and categories; the skills of scientific approaches to the analysis of the current conceptual apparatus.</p>	<p>languages and focused on a healthy lifestyle</p>
<p>Basic competencies</p>	<p>Learning result</p>
<p>KK11: Possesses the conceptual apparatus and terminology in the field of economics, economic laws and categories; the skills of scientific approaches to the analysis of the current conceptual apparatus.</p> <p>KK12: He knows a systematic understanding of the structures and trends of the development of</p>	<p>ON3: Demonstrate knowledge and skills in the field of marketing, management, economics to meet career needs, the ability to think critically by analyzing situations, building and</p>

<p>Kazakhstan and the world economy, understands the diversity of economic processes in the modern world, their connection with other processes taking place in society.</p> <p>KK13: Possesses methods of conducting technical and economic analysis of information capable of substantiating decisions made and implemented in the field of economics.</p> <p>KK14: Knows the use of mathematical methods and models in economics in the analysis and modeling of economic phenomena and processes, forecasting.</p> <p>KK15: He knows the basics of accounting and auditing, financial management, international economic relations, as well as the principles of making and implementing economic and managerial decisions.</p> <p>KK16: He knows the principles of the world and domestic economy, system analysis, is able to build and use models to describe and predict various phenomena, to carry out their qualitative and quantitative analysis.</p> <p>KK17: Has the skills of organizational structure, management methods and regulation of performance criteria in relation to the economy, as well as knowledge on the use of modern educational technologies.</p>	<p>choosing professional solutions to eliminate problems</p> <p>ON4: Apply fundamental knowledge and skills in the field of finance, accounting, auditing, statistics and analysis for professional growth and development of management solutions for the organization of companies' activities</p> <p>ON5: Have knowledge and skills in the field of methods of conducting economic research at macro and micro levels, evaluate modern processes and forecasts in the economy, as well as use mathematical methods and information technologies to solve economic problems</p> <p>ON6: Apply knowledge in the field of methods of economic analysis of the production and economic activities of the enterprise, evaluate the cost of developing investment and innovation projects, determine the assessment of the effectiveness of the enterprise and their financial condition</p>
<p>Profiling competence:</p>	<p>Learning outcomes</p>
<p>KK18: Is able to carry out the main functions and operations necessary for drawing up the economic sections of the plan, calculations, substantiate them and present the results of work in accordance with the standards accepted in the organization.</p> <p>KK19: It is able to systematize and analyze the initial data necessary for the calculation of economic and socio-economic indicators characterizing the activities of economic entities.</p> <p>KK20: He is able to calculate the methodology of the current regulatory framework, including the main</p>	<p>ON6: Apply knowledge in the field of methods of economic analysis of the production and economic activities of the enterprise, evaluate the cost of developing investment and innovation projects, determine the assessment of the effectiveness of the enterprise and their financial condition</p> <p>ON7: Develop planning methodology and use methods of</p>

<p>socio-economic indicators characterizing the activities of economic entities.</p> <p>KK21: He has the decision-making skills that are necessary in the process of developing a business plan, theoretical and experimental research in the field of economics, self-improvement of professional growth of a person with diverse humanitarian and natural science knowledge and interests.</p> <p>KK22: He is able to model, based on the description of economic processes and phenomena, to build standard theoretical and econometric parameters, to analyze and interpret the results obtained meaningfully, as well as to make managerial decisions.</p>	<p>functional strategies for enterprise development, apply methods of designing labor processes and labor rationing</p> <p>ON8: Apply the acquired knowledge to develop and implement solutions in business activities, and readiness to solve practical issues of economic activity of the enterprise and management organization</p>
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Matrix of correspondence of graduate competencies and disciplines, practices of the educational program

№	Name of the discipline	Generated learning outcomes (codes)
1.	Modern history of Kazakhstan	ON1
2.	Philosophy	ON2
3.	Foreign language	ON2
4.	Kazakh (Russian) language	ON2
5.	Information and communication technologies (in English.language)	ON2
6.	Physical Culture	ON2
7.	Module of socio-political knowledge (political science, sociology, cultural studies, psychology)	ON1, ON2
8.	Fundamentals of Economics and Law	ON1
9.	Transport law	ON2
10.	Economic theory	ON3, ON5
11.	Microeconomics	ON3, ON5
12.	Statistics	ON3, ON4, ON5
13.	Professionally-oriented foreign language	ON2

14.	Mathematics in Economics	ON5
15.	Marketing	ON3
16.	International economy	ON3, ON5
17.	Management	ON3, ON4
18.	Macroeconomics	ON3, ON5
19.	Educational practice	ON3, ON4
20.	Production practice1	ON5, ON6
21.	Finance	ON4, ON6
22.	Transport industry finance	
23.	Accounting and auditing	ON4
24.	Accounting and auditing in transport	
25.	State regulation of the economy	ON3, ON4, ON5
26.	State and local government	
27.	Industry management	ON3, ON4
28.	Management at motor transport enterprises	
29.	Regulation of the road and construction services market	ON5, ON6
30.	Regulation of the transport services market	
31.	Pricing and determination of estimated cost in construction	ON5, ON6
32.	Pricing in industries	
33.	Digital data analysis technologies	ON5, ON6
34.	Information support of motor transport systems	
35.	Risk management	ON3, ON4, ON6
36.	Financial risk management	
37.	Labor Market economics	ON5, ON6
38.	Labor market in transport	
39.	Economic analysis of the activities of road construction companies	ON4, ON5, ON6
40.	Industry economic analysis	

41.	Features of leasing operations in road and construction enterprises	ON5, ON6
42.	Leasing in industries	
43.	Strategic planning	ON5, ON6
44.	Strategy of activity of transport enterprises	
45.	The economy of the enterprise	ON7, ON8
46.	Entrepreneurship	ON7, ON8
47.	Production practice 2	ON8
48.	Pre-graduate practice	ON8
49.	Business organization in road construction organizations	ON7, ON8
50.	Valuation of the enterprise	
51.	Organization of rationing and remuneration of labor at the enterprises of the industry	ON7
52.	Remuneration of personnel in motor transport and construction organizations	
53.	Economics in industries	ON7, ON8
54.	Economy in transport	
55.	Economic assessment of investments in construction	ON6, ON8
56.	Estimation of the cost of machinery, equipment and vehicles	
57.	Organization of production at the enterprises of the industry	ON8
58.	Organization of production in transport	
59.	Project management	ON7, ON8
60.	Project management in transport	
61.	Writing and defending a thesis (project) or preparing and passing a comprehensive exam	ON8
62.	Total	
63.	Price "Mangilik El". Spiritual revival.	ON1, ON2
64.	Fundamentals of anticorruption culture	ON2
65.	Legal foundations of entrepreneurship	ON2

