



# EDUCATIONAL PROGRAM

## **6B11 - Services**

(Code and classification of the field of education)

## **6B113 - Transport services**

(Code and classification of the direction of training)

## **1040**

(Code in the International Standard Classification of Education)

## **B095 - Transport service**

(Code and classification of the educational program group)

## **6B11303 - Logistics and organization of transportation**

(Code and name of the educational program)

## **Bachelor**

(Level of preparation)

**Semey**

## **Educational program**

**6B11 – Services**

(Code and classification of the field of education)

**6B113 - Transport services**

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(Code in the International Standard Classification of Education)

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(Code and classification of the educational program group)

**6B11303 - Logistics and Organization of Transportation**

(Code and name of the educational program)

**bachelor**

(Level of preparation)

# PREFACE

## Developed

The educational program 6B11303 - Logistics and Organization of Transportation in the direction of preparation 6B113 - Transport services 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	Kozhakhmetova Dinara	Dean of the Higher School of Artificial Intelligence and Construction, PhD
Educational program manager	Zhumadilova Gulmira	senior lecturer, PhD
Member of the AC	Sovetbayev Rail	head of the department
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## Reviewing

Full name of the reviewer	Position, place of work
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## Reviewed

at a meeting of the Commission on Academic Quality of the Faculty of Engineering and Technology  
Protocol No. 3 of January 15, 2024

at the meeting of the Commission on Academic Quality of the Higher School of Artificial Intelligence and Construction

Recommended for approval by the Academic Council of the University  
Protocol № 1 "6" June 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.

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# 1.Introduction

## 1.1.General data

Білім беру бағдарламасы Еуропалық Одақтың "GeKaVoc - Қазақстандағы логистика, мехатроника және орнықты энергиямен жабдықтау жөніндегі дуальді білім беру бағдарламаларының трансфері" және білім беру бағдарламасының бір бөлігі болып табылатын KazDual – "Қазақстанда дуальді жүйені енгізу" бағдарламаларының қолдауымен әзірленді.

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 bachelors is the mastering by students of at least 205 credits of theoretical training, as well as at least 27 credits of practical training, 8 credits of final certification.

A total of 240 credits.

1.3.Typical study duration: 4 years

## 2.PASSPORT OF THE EDUCATIONAL PROGRAM

2.1.EP purpose	Training of highly qualified and competitive personnel with professional competencies in the field of logistics and transportation organization
<b>2.2.Map of the training profile within the educational program</b>	
Code and classification of the field of education	6B11 - Services
Code and classification of the direction of training	6B113 - Transport services
Code in the International Standard Classification of Education	1040
Code and classification of the educational program group	B095 - Transport service
Code and name of the educational program	6B11303 - Logistics and Organization of Transportation
2.3.Distinctive features of the OP (double degree/joint, OVPO-partner, Double major, innovative)	-
<b>2.4.Qualification characteristics of the graduate</b>	
Degree awarded / qualification	Bachelor in the field of services in the educational program «6B11303 Logistics and organization of transportation»
Name of professional standard	<p>1. Professional standard: "Management and maintenance of the transport and logistics center" approved by Order No. 12 dated 17.01.2019, Deputy Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken"</p> <p>2. Professional standard: "Logistics of wholesale business" Appendix to Order No. 1 of the Deputy Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated 11/18/2019 No.230</p> <p>3. Professional standard: "Logistics activities for the transportation of goods in the supply chain" Appendix to Order No. 70 of the Acting Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated 09/01/2023 No. 2136</p> <p>4. Professional standard: "Organization and conditions of transportation" Appendix to Order No. 52 of the Acting Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated 1.09.2023 No. 136</p> <p>5. Professional standard: "Production logistics" Appendix No. 73 to the order of the Acting Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" dated 09/01/2023 No. 136</p>
Atlas of new professions	-
Regional standard	-
Name of the profession / list of positions of a specialist	<p>1. Engineer for the organization of cargo transportation</p> <p>2. Engineer for the organization of cargo transportation in the supply chain</p>

	<ul style="list-style-type: none"> <li>3. Information logistician</li> <li>4. Logistician</li> <li>5. Logistics Manager</li> <li>6. Production Logistics Manager</li> <li>7. Warehouse Manager</li> <li>8. Supply Manager</li> <li>9. Manager for Customs Clearance and Certification</li> <li>10. Transport Manager</li> <li>11. The manager responsible for ensuring traffic safety</li> <li>12. Head of the Logistics Department</li> <li>13. Head of the Passenger Transportation Service</li> <li>14. Head of the Transport Service</li> <li>15. Head of the Freight Forwarding Agency</li> <li>16. Head of the Department of Organization and Conditions of Transportation</li> <li>17. Head of the Logistics Department</li> <li>18. Transport Logistics Specialist</li> <li>19. Specialist in multimodal transport</li> <li>20. Specialist in the development of passenger transport infrastructure</li> <li>21. Manager of the transport and logistics center</li> </ul>
QQF qualification level (industry qualification framework)	6
Area of professional activity	<ul style="list-style-type: none"> <li>1. Planning, organization, execution and control of the movement and placement of material and non-material flows and resources;</li> <li>2. Design, optimization, development of logistics systems and technologies;</li> <li>3. Organization of transportation and traffic management on transport;</li> <li>4. Transportation of passengers, baggage, cargo and mail;</li> <li>5. Control and safety in transport;</li> <li>6. Organization of warehouse activities;</li> </ul> <p>Implementation of a complex of services for transport services of shippers and consignees of transport.</p>
Object of professional activity	<ul style="list-style-type: none"> <li>1. Consulting firms</li> <li>2. Logistics centers</li> <li>3. International corporations</li> <li>4. Manufacturing enterprises</li> <li>5. Customs authorities and terminals</li> <li>6. Commercial enterprises</li> <li>7. Transport companies and hubs</li> <li>8. Forwarding companies</li> </ul>
Types of professional activity	<ul style="list-style-type: none"> <li>- service and operational;</li> <li>- production and technological;</li> <li>- organizational and managerial;</li> <li>- design and engineering.</li> </ul>
<b>2.5. Graduate Model</b>	<p>1 Description of the educational program</p> <p>The graduate model of the educational program "6B11303 Logistics and organization of transportation" in the direction of training 6B113 Transport services was developed on the basis of the State Standard of the Republic of Kazakhstan dated 31.10.2018 № 604.</p> <p>The license number of the training is KZ38LAA00018432, the validity period is indefinite, the</p>

date of issue is June 25, 2020, the order of the Chairman of the Committee for Quality Assurance in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated June 25, 2020 № 274.

Currently, logistics specialists are very much in demand in the labor market.

The type of the Minor educational program is Management in logistics.

2 The purpose of the educational program

Training of highly qualified and competitive personnel with professional competencies in the field of logistics and transportation organization

3 Objectives of the educational program

- to form fundamental knowledge, skills and competencies necessary in professional activity;
- to form a graduate`s readiness to organize rational interaction of modes of transport, freight forwarding companies, logistics centers and rolling stock operators in the transportation of passengers, baggage, cargo and cargo;
- to ensure higher mobility of graduates in changing labor market conditions;
- to ensure the adaptation of higher education in the specialty and scientific research to the changing needs of society and the achievements of scientific thought;
- to form a graduate`s readiness to form a package of accompanying documentation necessary for conducting logistics activities;
- to ensure recognition of the level of training of specialists in other countries.

4 The results of the bachelor`s degree in the educational program "6B11303 Logistics and transportation organization" (6 qualification level of the NRK) in accordance with the Dublin descriptors assume the following abilities:

4.1 Mastered competencies expressed in the achieved learning outcomes

- Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.
- Carry out information processing processes on a personal computer, performs input and output of information from data carriers, communication channels, use multimedia capabilities of a personal computer in work.
- Use the basics of mathematical and economic knowledge to solve logistical problems.
- Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation.
- Simulate production processes in transport to improve transport productivity and the quality of work in the organization of traffic.



- To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience.
- To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock.
- Analyze and process information, technical data, indicators and results of transport systems.
- Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management.
- To develop a technological process for the creation and operation of a transport complex, respectively, to draw up documentation on transportation.

#### 4.2 Personal qualities of the graduate

Personal qualities include:

- ability to work in a team;
- punctuality;
- the ability to personal and professional growth;
- the ability to clearly, logically express your thoughts, formulate the essence of the problem and set tasks, the ability to effectively present your ideas;
- responsibility;
- performance;
- initiative;
- discipline.

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

#### Module 1. Fundamentals of social and humanitarian knowledge

##### Brief description of the module content

This module reveals such aspects as: socio-cultural, economic-legal, environmental knowledge, communication skills, the use of information technology taking into account modern trends in the development of society.

##### Module disciplines

Foreign language

Kazakh(Russian) language (1)

Bases of economics, law and ecological knowledge

Physical Culture

Foreign language

History of Kazakhstan

Kazakh(Russian) language (2)

The module of socio-political knowledge (sociology, political science, cultural studies, psychology)

Physical Culture

Physical Culture

World of Abai

Information and communication technology

Physical Culture

Philosophy

#### Module 2. Information technologies in transport

##### Brief description of the module content

The module is aimed at studying modern information technologies as a tool for optimizing management processes in the transport complex

##### Module disciplines

Computer graphics are in a transport planning

Machine graphic arts

Fundamentals of computer modeling

Automated control systems of transportation process

Intelligent systems of transport management

Information support of the transportation process

#### Module 3. Mathematical methods and models in logistics

##### Brief description of the module content

The module is aimed at studying mathematical methods and models, methods of optimization of logistic and economic processes

##### Module disciplines

Mathematics

Optimization methods and operations research

Mathematical methods and models in logistics

Mathematical methods of decision of transport tasks

Mathematical modeling of economic processes and systems

Optimization of transport logistics processes

Optimization of transportation processes

Tariffs in the logistics system

Economy in transport

Economic processes in transport

## **Module 4. Introduction to the logistics profession**

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

The module is aimed at studying the initial information about transport, its structure, characteristics and indicators, the current state and development prospects.

### **Module disciplines**

Introduction to the logistics profession

Transport geography

Educational practice

Study of loads

The General course of the Railways

Flat rate of transport

Packaging and packaging technology

## **Module 5. Organization and management of transportation**

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

The module is aimed at studying the basics of organization, management of transportation and interaction of modes of transport

### **Module disciplines**

Bases of freight and commercial work

Organization of transportations and management by motion

Logistic of the system of international transport processes

Organization of transport and logistics activities

Production practice 1

Transport-logistic infrastructure

Cooperation of types of transport

## **Module 6. New technologies in transportation**

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

The module is aimed at studying new technologies in the transportation process

### **Module disciplines**

Production practice 2

New technologies in transportation

Modern logistics technologies for cargo and passenger delivery

Modern technologies of cargo and passenger delivery

Innovative technologies of terminal cargo processing

Modern technologies and devices for optimizing terminal activity

Terminal transportation technologies

## **Module 7. Operation of rolling stock**

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

The module is aimed at studying the basics of rolling stock operation

### **Module disciplines**

Organization and mechanization of loading and unloading operations

Specialized rolling stock

Basics of ergonomics and design of transport equipment

Technical operation of transport

Operation and maintenance of rolling stock

## **Module 8. Transport services**

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

The module is aimed at studying the rules of transportation of goods and passengers, as well as services in the field of transport.

#### **Module disciplines**

Rules for the carriage of goods and passengers

Freight transportations

Passenger transportations

Intellectual property in quality management

Fundamentals of innovation and patenting

Fundamentals of scientific research

Certification and licensing of transport and logistics services

Quality assessment of freight and passenger transport

Assessment of the work and quality of transportation on transport

Service on a transport

Services in the field of transport

Forwarding services on transport

Efficiency of road and transportation complex

Pre-diploma practice

Production practice 3

### **Module 9. Management in logistics**

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

The module is aimed at studying the processes of distribution and supply of goods in the domestic market and in international conditions, including procurement logistics, production and warehouse logistics, key issues of multimodal transportation, project management and innovation in the field of logistics.

#### **Module disciplines**

Business Ethics

Business ethics

Professional ethics

History of transport development

Commercial logistics

Production logistics

Production process logistics

Warehousing logistics

Logistics of supply and distribution

Operating and warehouse logistics

Distribution logistics

Corporate distribution

Distribution logistics at the enterprise

Foreign trade operations and their transport support

Global logistics and SCM

Supply chain planning and management

Innovative directions in professional activity

Logistics strategies and innovation

Personnel management

#### **Final examination**

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

Writing and defending a thesis or preparing and passing a comprehensive exam

#### **Module disciplines**

Diplom work

Comprehensive exam

## 4. Summary table on the scope of the educational program «6B11303 - Logistics and Organization of Transportation»

Name of discipline	Cycle/ Component	Term	Number of credits	Total hours	Lec	SPL	LC	IWST	IWS	Knowledge control form
<b>Module 1. Fundamentals of social and humanitarian knowledge</b>										
Foreign language	GER/CC	1	5	150		45		35	70	Examination
Kazakh(Russian) language (1)	GER/CC	1	5	150		45		35	70	Examination
Bases of economics, law and ecological knowledge	GER/US	1	5	150	15	30		35	70	Examination
Physical Culture	GER/CC	1	2	60		60				Examination
Foreign language	GER/CC	2	5	150		45		35	70	Examination
History of Kazakhstan	GER/CC	2	5	150	30	15		35	70	Qualification examination
Kazakh(Russian) language (2)	GER/CC	2	5	150		45		35	70	Examination
The module of socio-political knowledge (sociology, political science, cultural studies, psychology)	GER/CC	2	8	240	30	45		55	110	Examination
Physical Culture	GER/CC	2	2	60		60				Differentiated attestation
Physical Culture	GER/CC	3	2	60		60				Examination
World of Abai	BS/US	3	3	90	15	15		20	40	Examination
Information and communication technology	GER/CC	4	5	150	15	15	15	35	70	Examination
Physical Culture	GER/CC	4	2	60		60				Differentiated attestation
Philosophy	GER/CC	5	5	150	15	30		35	70	Examination
<b>Module 2. Information technologies in transport</b>										
Computer graphics are in a transport planning	BS/CCh	5	5	150	15	30		35	70	Examination
Machine graphic arts	BS/CCh	5	5	150	15	30		35	70	Examination
Fundamentals of computer modeling	BS/CCh	5	5	150	15	30		35	70	Examination
Automated control systems of transportation process	BS/CCh	6	5	150	15	30		35	70	Examination
Intelligent systems of transport management	BS/CCh	6	5	150	15	30		35	70	Examination
Information support of the transportation process	BS/CCh	6	5	150	15	30		35	70	Examination
<b>Module 3. Mathematical methods and models in logistics</b>										
Mathematics	BS/US	1	5	150	15	30		35	70	Examination
Optimization methods and operations research	BS/CCh	6	5	150	15	30		35	70	Examination
Mathematical methods and models in logistics	BS/CCh	6	5	150	15	30		35	70	Examination
Mathematical methods of decision of transport tasks	BS/CCh	6	5	150	15	30		35	70	Examination

Mathematical modeling of economic processes and systems	BS/CCh	6	5	150	15	30		35	70	Examination
Optimization of transport logistics processes	BS/CCh	6	5	150	15	30		35	70	Examination
Optimization of transportation processes	BS/CCh	6	5	150	15	30		35	70	Examination
Tariffs in the logistics system	AS/CCh	7	5	150	15	30		35	70	Examination
Economy in transport	AS/CCh	7	5	150	15	30		35	70	Examination
Economic processes in transport	AS/CCh	7	5	150	15	30		35	70	Examination
<b>Module 4. Introduction to the logistics profession</b>										
Introduction to the logistics profession	BS/US	1	5	150	15	30		35	70	Examination
Transport geography	BS/US	1	3	90	15	15		20	40	Examination
Educational practice	BS/US	2	2	60						Total mark on practice
Study of loads	BS/US	3	5	150	15	30		35	70	Examination
The General course of the Railways	BS/CCh	3	5	150	30	15		35	70	Examination
Flat rate of transport	BS/CCh	3	5	150	30	15		35	70	Examination
Packaging and packaging technology	BS/US	4	5	150	15	30		35	70	Examination
<b>Module 5. Organization and management of transportation</b>										
Bases of freight and commercial work	BS/US	3	5	150	15	30		35	70	Examination
Organization of transportations and management by motion	BS/US	3	5	150	15	30		35	70	Examination
Logistic of the system of international transport processes	BS/CCh	4	5	150	15	30		35	70	Examination
Organization of transport and logistics activities	BS/CCh	4	5	150	15	30		35	70	Examination
Production practice 1	BS/US	4	5	150						Total mark on practice
Transport-logistic infrastructure	BS/CCh	4	5	150	15	30		35	70	Examination
Cooperation of types of transport	BS/US	5	5	150	30	15		35	70	Examination
<b>Module 6. New technologies in transportation</b>										
Production practice 2	BS/US	6	5	150						Total mark on practice
New technologies in transportation	AS/CCh	6	5	150	15	30		35	70	Examination
Modern logistics technologies for cargo and passenger delivery	AS/CCh	6	5	150	15	30		35	70	Examination
Modern technologies of cargo and passenger delivery	AS/CCh	6	5	150	15	30		35	70	Examination
Innovative technologies of terminal cargo processing	AS/CCh	7	5	150	15	30		35	70	Examination
Modern technologies and devices for optimizing terminal activity	AS/CCh	7	5	150	15	30		35	70	Examination
Terminal transportation technologies	AS/CCh	7	5	150	15	30		35	70	Examination
<b>Module 7. Operation of rolling stock</b>										
Organization and mechanization of loading and unloading operations	BS/US	4	5	150	30	15		35	70	Examination
Specialized rolling stock	BS/US	5	5	150	30	15		35	70	Examination

Basics of ergonomics and design of transport equipment	AS/CCh	7	5	150	15	30		35	70	Examination
Technical operation of transport	AS/CCh	7	5	150	15	30		35	70	Examination
Operation and maintenance of rolling stock	AS/CCh	7	5	150	15	30		35	70	Examination
<b>Module 8. Transport services</b>										
Rules for the carriage of goods and passengers	BS/CCh	5	5	150	15	30		35	70	Examination
Freight transportations	BS/CCh	5	5	150	15	30		35	70	Examination
Passenger transportations	BS/CCh	5	5	150	15	30		35	70	Examination
Intellectual property in quality management	BS/CCh	7	3	90	15	15		20	40	Examination
Fundamentals of innovation and patenting	BS/CCh	7	3	90	15	15		20	40	Examination
Fundamentals of scientific research	BS/US	7	3	90	15	15		20	40	Examination
Certification and licensing of transport and logistics services	BS/CCh	7	3	90	15	15		20	40	Examination
Quality assessment of freight and passenger transport	AS/CCh	7	6	180	30	30		40	80	Examination
Assessment of the work and quality of transportation on transport	AS/CCh	7	6	180	30	30		40	80	Examination
Service on a transport	AS/CCh	7	5	150	15	30		35	70	Examination
Services in the field of transport	AS/CCh	7	5	150	15	30		35	70	Examination
Forwarding services on transport	AS/CCh	7	5	150	15	30		35	70	Examination
Efficiency of road and transportation complex	AS/CCh	7	6	180	30	30		40	80	Examination
Pre-diploma practice	AS/CCh	8	15	450						Total mark on practice
Production practice 3	AS/CCh	8	15	450						Total mark on practice
<b>Module 9. Management in logistics</b>										
Business Ethics	BS/CCh	2	3	90	15	15		20	40	Examination
Business ethics	BS/CCh	2	3	90	15	15		20	40	Examination
Professional ethics	BS/CCh	2	3	90	15	15		20	40	Examination
History of transport development	BS/CCh	3	5	150	30	15		35	70	Examination
Commercial logistics	BS/CCh	3	3	90	15	15		20	40	Examination
Production logistics	BS/CCh	3	3	90	15	15		20	40	Examination
Production process logistics	BS/CCh	3	3	90	15	15		20	40	Examination
Warehousing logistics	BS/CCh	4	5	150	15	30		35	70	Examination
Logistics of supply and distribution	BS/CCh	4	5	150	15	30		35	70	Examination
Operating and warehouse logistics	BS/CCh	4	5	150	15	30		35	70	Examination
Distribution logistics	AS/CCh	5	5	150	15	30		35	70	Examination
Corporate distribution	AS/CCh	5	5	150	15	30		35	70	Examination
Distribution logistics at the enterprise	AS/CCh	5	5	150	15	30		35	70	Examination
Foreign trade operations and their transport support	AS/CCh	6	5	150	15	30		35	70	Examination



Global logistics and SCM	AS/CCh	6	5	150	15	30		35	70	Examination
Supply chain planning and management	AS/CCh	6	5	150	15	30		35	70	Examination
Innovative directions in professional activity	AS/CCh	7	5	150	15	30		35	70	Examination
Logistics strategies and innovation	AS/CCh	7	5	150	15	30		35	70	Examination
Personnel management	AS/CCh	7	5	150	15	30		35	70	Examination
<b>Final examination</b>										
Diplom work		8	8	240						
Comprehensive exam		8	8	240						

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

**EDUCATIONAL PROGRAM DEVELOPMENT PLAN**

«6B11303 – Logistics and organization of transportation»

2024 – 2028

Semey 2024

## Content

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**1 Passport of the Development Plan of the Bachelor's degree educational program 6B11303 «Logistics and organization of transportation»**

1	The basis for the development	Development program of the Non -Profit Limited Company «Shakarim University of Semey» for 2023-2029 School Work plan
2	Terms of implementation	2024-2028
3	Expected results of implementation	Training of highly qualified and competitive personnel with professional competencies in the field of logistics and transportation organization

## 2 Analytical justification of the educational program

### 2.1 Information about the educational program

The educational program has been developed in accordance with the National Qualifications Framework and Professional Standards, according to the Dublin Descriptors and the European Qualifications Framework. The typical period of mastering the bachelor's degree program is 4 years.

The main criterion for the completion of the educational process is the development of at least 240 credits, with the award of a bachelor's degree in the field of services under the educational program 6B11303 «Logistics and transportation organization».

The educational program was developed with the support of the European Union programs «GeKaVoC - transfer of dual educational programs in logistics, mechatronics and sustainable energy supply in Kazakhstan» and KazDual – «Introduction of a dual system in Kazakhstan», which are part of the educational program.

### 2.2 Information about students

Academic year The basis of training	2024-2025 academic year	2025-2026 academic year	2026-2027 academic year	2027-2028 academic year
Grant	15	15	15	15
Contract	5	5	5	5
Total	20	20	20	20

### 2.3 Internal and external conditions for the development of the educational program

For the development and implementation of the educational program 6B11303 «Logistics and organization of transportation», the department has created favorable and optimal conditions such as:

- high material and technical equipment of the OP (Training complex for training students in the specialty «Organization of transportation and management of transport» with a personal computer; Multimedia complex «Station Dubrovskaya»; Interactive electrified 3D model simulator «Station and section of the stretch with automatic locking» and simulator dummy «First aid for the heart-pulmonary resuscitation; Automated training system AOS-D; 3D models of rolling stock and railway infrastructure facilities);

- training in 3 languages (state, Russian and English);
- modern educational and methodological base, with students' access to information and analytical resources;
- application of modern and interactive teaching tools and methods;
- introduction of dual training technology (practical classes are held on the basis of the branch of the department Branch of LLP «KTZ – Cargo transportation» – «Semey Freight Transportation Department»);
- Academic mobility (external – Pamukalle University (State University in Denizli, Turkey);
- high-quality professional infrastructure (educational resources).

In accordance with the working curricula and academic calendar, on the basis of an agreement on the joint establishment of a branch and the signing of a memorandum of cooperation, practical classes are conducted in a dual form on the basis of a branch of the department, a branch of LLP «KTZ – Freight Transportation» - «Semey Freight Transportation Department».

Cooperation with the branch has been conducted since 2014. Regarding the organization of the educational process for dual training and other powers within the framework of dual training, that is, when drawing up an educational program, as well as when forming the competence of graduates, the work is carried out in the form of consulting assistance.

The classrooms of the department are equipped with modern equipment, comply with current sanitary standards, fire safety requirements, qualification requirements for the activities of educational organizations. These classrooms are used both for conducting classes in the disciplines of the OP, and for independent work of students. The educational program 6B11303 «Logistics and organization of transportation» is sufficiently provided with basic methodological materials on the disciplines taught.

The classrooms of the Department are connected to the WI-Fi network for online conferences, lectures, seminars with the participation of leading scientists of Kazakhstan, near and far abroad. The classrooms of the Department are connected to the WI-Fi network for online conferences, lectures, seminars with the participation of leading scientists of Kazakhstan, near and far abroad. The Portal of educational resources of the Shakarim University of Semey is functioning (<http://ais.semgu.kz>), which

contains lectures, videos, hyperlinks, tasks for self-examination, presentations on topics, textbooks and other educational and methodological content on the studied disciplines of the OP, the content of which the teaching staff uses in the classroom, and to which students have round-the-clock access. The most common innovative methods developed by teaching staff of departments for lecturing, conducting practical and laboratory classes, protection and pre-protection of graduation papers include: video lectures, slide presentations, working with an interactive whiteboard, the use of multimedia complexes.

## 2.4 Information about teaching staff implementing the educational program

№	Показатели	Unit of measurement	2024-2025 academic year	2025-2026 academic year	2026-2027 academic year	2027-2028 academic year
1	The share of the teaching staff with an academic degree in the educational program	%	50	55	60	60
2	Including the share of the teaching staff with an academic degree in the cycle of general education disciplines	%	75	75	80	80

## 2.5 Characteristics of educational program achievements

The teaching staff of the Department is constantly improving knowledge and undergoing advanced training, including short-term refresher courses, visits to various seminars held by the Ministry of Education and Science of the Republic of Kazakhstan, internships at leading universities of Kazakhstan and educational and scientific centers.

Every year, practical teachers are involved in conducting classes:

1. Kurmanov Ildar - Head of Logistics and Transportation Organization Department;
2. Gurzhiy Elena - cargo dispatcher of Logistics and Transportation Organization Department;
3. Amanzholova Anel – logistician of «Tab Trade» LLP.

## 3 The main objectives of the educational program development plan

For the effective implementation of the educational program, the following tasks are defined: improving the quality of education in accordance with the requirements of domestic and international standards; attracting domestic and foreign scientific and pedagogical personnel to the educational process; developing human resources; attracting employers and students to the process of improving the educational program, determining the professional competencies of the graduate; strengthening the material and technical base; training educational and methodological support of disciplines offered by employers; ensuring the integration of education and science; information support of the educational process and the active use of innovative educational technologies; development of double-degree education.

The expected end results imply a clear orientation towards the future, which is manifested in training of highly qualified specialists, opportunities for students to build their education taking into account success in personal and professional activities that meet the requirements of employers, the introduction of research results into the educational process, participation in funded grant projects, the publication activity of the teaching staff in rating publications with a non-zero impact factor, the development and operation of joint educational programs with other universities, as well as academic mobility of the teaching staff and students.

#### **4 Risk analysis of the educational program**

The identification and assessment of risks is carried out in accordance with the Strategic Development Plan of the University until 2025. The mechanism for monitoring possible risks is surveys and questionnaires of students' satisfaction with the organization of the educational process, the quality of teaching, and the material and technical base. In order to assess the quality of the implemented educational program, meetings are held with specialists, graduates of previous years, students.

Monitoring is carried out systematically through questionnaires of employers who evaluate the quality of training of specialists. The results of the survey and monitoring of the risks of the educational program are analyzed and used in the future when updating educational programs.

<b>№</b>	<b>Name of risks</b>	<b>Measures to eliminate</b>
1	Decrease in the number of students enrolled in the educational program	Strengthening career guidance among students of schools and colleges by means of activating publications on social networks and holding meetings and excursions
2	Insufficient level of language knowledge for the	Passing of language courses of the teaching staff and students



	introduction of trilingual education	
3	Decrease in the level of employment	Extensive involvement of practitioners for the implementation and development of the educational program, the formation of competencies that meet the requirements of the labor market.
4	Insufficient development of external and internal academic mobility of students and teaching staff	Expansion of geography of internal and external academic mobility of students, development of academic exchanges
5	The risk of reducing the settling down of the teaching staff according to the educational program	An increase in the number of students enrolled in master's and PhD doctoral studies.
6	Motivation of the teaching staff for scientific research, publication of scientific articles and results of research activities	The introduction of financial support for initiative teachers, the introduction of a rating assessment of the activities of the teaching staff in order to improve their professional level, motivation and stimulation of scientific and pedagogical activity (KPI).

## 5 Action plan for the development of EP

№	Criteria	Expected results	units of measurement	2024-2025 academic year		2025-2026 academic year		2026-2027 academic year		2027-2028 academic year	
				plan	Actual implementation	plan	Actual implementation	plan	Actual implementation	plan	Actual implementation
<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 examination of the Educational program 6B11303 "Logistics and organization of transportation" in order to improve the practice orientation and development of professional competencies of graduates	fact.	+		+		+		+	

<b>1.2</b>	Monitoring and updating catalogs of elective disciplines in accordance with the development of key and professional competencies, the demands of the labor market	Improving the quality of the content of educational programs by including elective courses aimed at developing key and professional competencies of graduates in accordance with the demands of the labor market.	fact.	+		+		+		+	
<b>1.3</b>	Introduction of modern learning technologies into the educational process, contributing to the development of cognitive activity, communicative ability of students	Improving the quality of teaching academic disciplines, taking into account the novelty and variety of forms of work that contribute to the development of cognitive activity.	fact.	+		+		+		+	
<b>1.3.1</b>	Introduction of mass open online courses (MOOC) into the educational process according to the educational program 6B11303 "Logistics and organization of transportation"	Introduction of disciplines into the educational process Improving the quality of teaching academic disciplines, taking into account the novelty and diversity of forms of work that contribute to the development of cognitive activity.	unit	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.4</b>	Involvement of social partners and employers in the development, examination of the implementation of educational programs	Improving the quality of implemented educational programs taking into account market demands and recommendations of employers	unit	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.5</b>	Development and implementation of elective courses in English	Introduction of disciplines in English into the educational process	unit	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.6</b>	Conducting seminars and round tables on the application of innovative technologies in the educational process	Introduction of innovative technologies in the educational process	unit	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.7</b>	Publication of educational, methodical and scientific literature on the implemented educational programs	Improvement of educational and methodological support in the disciplines of the implemented educational programs	unit	<b>2</b>		<b>2</b>		<b>2</b>		<b>2</b>	

<b>1.8</b>	Conclusion of contracts with foreign and domestic partner universities in order to develop academic exchange of students of all levels and teaching staff	Creation of a database of foreign and domestic partner universities for the development of academic exchange of students of all levels and teaching staff	unit	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.9</b>	Inviting students from partner universities to study for a semester, short-term internships, internships, etc.	Development of international recognition of educational programs, implementation of academic mobility programs for students	number of people	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.10</b>	Participation of the teaching staff and students in international academic exchange programs	Development of international cooperation with foreign universities implementing educational programs in the direction 6B113 Transport services	number of people	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>1.11</b>	Development of outgoing academic mobility of teaching staff and students in the direction of 6B113 Transport services	Improvement of the educational program based on the use of the experience of implementing such programs in the leading universities of the Republic of Kazakhstan	number of people	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>Direction 2. Teaching staff</b>											
<b>2.1</b>	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 passed advanced training at the national level is at least 20%	number of people	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>2.2</b>	Advanced training, retraining, internships of teaching staff at the international level	Completion of at least 2 teachers of the advanced training program, retraining, internships of teaching staff at the international level	number of people	<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	
<b>2.3</b>	Promotion of publications of the works of teaching staff in international publications indexed by the Web of Science and Scopus databases	Increase in the share of teaching staff who have published the results of scientific research in publications indexed by the Web of Science and Scopus databases – at least 30% of the total number of teaching staff	%	<b>30</b>		<b>30</b>		<b>30</b>		<b>30</b>	

2.4	Involvement of practical specialists in teaching and scientific activities	Participation in the implementation of educational programs of practitioners (at least 20% of specialists)	%	30		30		30		30	
<b>Direction 3. Internationalization of educational programs</b>											
3.1	Conclusion of agreements on international cooperation with foreign universities	Implementation of joint projects, preparation of scientific publications with foreign partners, creation of bases for scientific internships of students	unit	1		1		1		1	
3.2	Attracting foreign students to study under the educational program 6B11303 "Logistics and organization of transportation"	Increasing the number of foreign students	number of people	1		1		1		1	
3.3	Organization of joint scientific and practical events with international partners	Improving the efficiency of scientific and methodological activities of teaching staff, exchange of experience with foreign partners	unit	1		1		1		1	
3.4	Invitation of foreign specialists to give lectures and consultations on master's 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	unit	1		1		1		1	
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	number of people	1		1		1		1	
<b>Direction 4. Logistics and digitalization</b>											

4.1	Step-by-step equipping of classrooms with technical training tools (projectors, panels, interactive and multimedia whiteboards, multifunctional devices, webcam, projector screen, etc.)	Equipping classrooms assigned to the department with technical training tools (projectors, panels, interactive and multimedia boards, multifunctional devices, webcam, projector screen, etc.)	unit	1	1	1	1
4.2	Automation of the educational process (testing, session management, student contingent movement, dean's office, department, teaching staff load, schedule, library, syllabuses)	Information management based on the automation of the educational process (testing, session management, student contingent movement, dean's office, department, teaching staff load, schedule, library, syllabuses)	fact.	+	+	+	+
4.3	Replenishment of the full-text database of research results of teaching staff and students, teaching staff (articles, monographs, etc.)	Increase in the number of results of scientific works of scientists, research of teaching staff and students, teaching staff (articles, monographs, etc.)	unit	1	1	1	1
4.4	Expansion of the fund of scientific and educational literature, including on electronic media for implemented educational programs	Ensuring the implementation of educational programs based on modern educational and information resources, including on electronic media	%	20	20	20	20
4.5	Monitoring the content and improvement of the faculty's website	Formation of the faculty's website on various aspects of the implementation of educational programs	%	70	80	100	100

Head of the Department TE and ME

Sovetbaev R.A.

**REVIEWED**

at the meeting of the Commission on Academic Quality  
Graduate School Artificial Intelligence and Construction  
Minutes of the meeting № 1 «06» 06. 2024  
Chairman CAQ Adykanova A.Zh.

**AGREED**

Dean Kozhahmetova D.O.  
«06» 06. 2024