

**Joint Stock Company "Academy of Logistics and Transport"**



**APPROVED**  
by the decision of the AC ALT from  
2023 y. (Protocol № \_\_\_)  
President-Rector  
Amirgalieva S.N.

**EDUCATIONAL PROGRAM**

**Name: 8D11361- Organization of transportation, traffic and operation of transport**

**Level of training: Doctoral studies (PhD)**

**Code and classification of training areas: 8D11 Transportation services**

**Code and group of educational programs: D147 Transportation services**

**Date of registration in the Registry: 19.02.2021**

**Registration number: 8D11300007**

**Almaty, 2023 y.**

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**1. INFORMATION ABOUT THE REVIEW, APPROVAL AND APPROVAL OF THE PROGRAM, DEVELOPERS, EXPERTS AND REVIEWERS**

**1 DEVELOPED BY:**

Academy of Logistics and Transport, Assistant Professor of the Department «ОТОГ», Doctor of Technical Sciences

  
Musabaev B.K.


Academy of Logistics and Transport, Associate Professor of the Department «ОТОГ», Candidate of Technical Sciences

  
Vakhitova L.V.

General manager  
Azurite Railway Solutions LLP

  
Sharubekov M.N.

Student of the educational program 8D11361-OTTOT

  
Aldanazarov K.T.

**2 EXPERTS:**

SIC «Development of the transportation process» LLP, Director of Commercialization, c.t.s.

  
Sman. A.

«TransCom» LLP, Transportation Analyst, c.t.s.

  
Aikumbekov M.

**3 REVIEWER:**

Director of the Department of Transportation Activities. «TransCom» LLP

  
Zhumataev A.Zh.

**4 REVIEWED AND RECOMMENDED:**

Meeting of the AC of the Department «Organization of transportation and operation of transport»

Protocol No. 6, «16» February 2023

  
Abibullaev S.Sh.


Meeting of the QAC-EMB of the Institute «Logistics and Management»

Protocol No. 4, «21» February 2023

  
Kaltaev A.K.

Meeting of the EMC

Protocol No. 4a, «29» March 2023

  
Zharmagambetova M.S.

**5 APPROVED** by the decision of the Academic Council of March 30, 2023 No. 13

**6 INTRODUCED** 07.08.2023

## 2. REGULATORY REFERENCES

The educational program is developed on the basis of the following normative legal acts and professional standards:

1. The Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III (with amendments and additions as of March 27, 2023).
2. The National Qualifications Framework approved by the Protocol of March 16, 2016 by the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations.
3. The sectoral qualifications framework of the field of "Education", approved by the Minutes of the meeting of the sectoral Commission of the Ministry of Education and Science of the Republic of Kazakhstan on social partnership and regulation of social and labor relations in the field of education and science dated November 27, 2019 No. 3.
4. State Mandatory Standard of Higher and Postgraduate Education (Order No. 66 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated February 20, 2023).
5. 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 August 12, 2022 No. 309.
6. Rules for the organization of the educational process on credit technology of education in organizations of higher and (or) postgraduate education, approved by the Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan No. 152 dated 20.04.2011. (with additions and amendments dated April 04, 2023 No. 145).
7. Classifier of training areas with higher and postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 13, 2018 No. 569 (with amendments and additions as of June 05, 2020).
8. The algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated December 4, 2018 No. 665 (with additions and amendments as of December 23, 2020 No. 536).
9. WI-ALT-33 "Regulations on the procedure for developing the educational program of higher and postgraduate education".
10. Professional standard: "Rail freight transportation: freight and commercial work (station level)", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
11. Professional standard: "Activity of bus stations and bus stations", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
12. Professional standard: "Organization of station work", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
13. Professional standard: "Dispatching regulation on railway transport (linear level)", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
14. Professional standard: "Transportation of goods by road", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
15. Professional standard: "Logistics of passenger transportation", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.

### 3 PASSPORT OF THE EDUCATIONAL PROGRAM

№	Field name	Note
1	Registration number	No. 8D11300007
2	Code and classification of the field of education	8D11 Services
3	Code and classification of training areas	8D113 Transportation services
4	Code and group of educational programs	D147 Transportation services
5	Name of the educational program	Organization of transportation, traffic and operation of transport
6	Type of educational program	Current
7	Purpose of the educational program	Training of highly qualified scientific, pedagogical and managerial personnel with innovative professional competencies and skills to generate ideas, predict the results of innovative activities, manage complex production and scientific processes, present methodological knowledge in the field of organization and management of the transportation process in transport
8	ISCED level	8
9	Level according to the NQF	8
10	Level according to the IQF	8
11	Distinctive features of the EP	No
	Partner University (JEP)	
	Partner University (Two-degree EP)	
12	Form of training	Full-time
13	language of education	Kazakh, Russian
14	Volume of credits	180
15	Academic degree awarded	Doctor of Philosophy PhD in the educational program «8D11361-Organization of transportation, traffic and operation of transport»
16	Availability of an appendix to the license for the direction of training	KZ12LAA00025205 от 04.03.2021
17	Availability of EP accreditation	Yes
	Name of the accreditation body	Independent Agency for Quality Assurance in Education (IQAA)
	Validity period of accreditation	04.06.2026

## 4 THE GRADUATE'S COMPETENCE MODEL

### Objectives of the educational program:

1. Assistance in the formation of the graduate's ability:
  - 1) demonstrate the developing knowledge and understanding gained at the level of higher and postgraduate education, which are the basis or opportunity for the original development or application of ideas, often in the context of scientific research;
  - 2) apply knowledge, understanding and the ability to solve problems in new or unfamiliar situations in contexts and within broader or interdisciplinary fields related to the field being studied;
  - 3) integrate knowledge, cope with difficulties and make judgments based on incomplete or limited information, taking into account ethical and social responsibility for the application of these judgments and knowledge;
  - 4) clearly and clearly communicate their conclusions and knowledge and their justification to specialists and non-specialists;
  - 5) continue to study independently.
  - 6) plan, develop, implement and adjust the complex process of scientific research;
  - 7) demonstrate a systematic understanding of the field of study, mastery of the skills and research methods used in this field;
  - 8) critically analyze, evaluate and synthesize new and complex ideas;
  - 9) conducting independent scientific research, the ability to communicate their knowledge and achievements to colleagues, the scientific community and the general public.
2. Assistance in the formation of graduate readiness:
  - 1) independently form professional and research competencies;
  - 2) independently perform research and professional tasks in accordance with the requirements of the professional standard and the educational program.

### Learning outcomes:

LO1 – Demonstrate the skills of writing academic and scientific texts of various genres when performing original research works in publications of various levels.

LO2 – To solve theoretical and applied research problems in the field of transport science with the development of methods for predicting car traffic and the development of an operational management system.

LO3 – To analyze the organization of the transport complex enterprises' activities and the methodology of servicing transport services consumers on the basis of outsourcing, reengineering and modern research approaches.

LO4 – Evaluate decision-making on the organization and conduct of tenders, reallocation and minimization of the use of various resources, ways to translate the activities of organizations into an optimal logistics business process.

LO5 – Formulate methods for evaluating, analyzing, forecasting, and improving the performance of transport systems.

**Field of professional activity:** Sections of science and technology that study connections and patterns in the theory of motion, calculations, design, testing and operation of ground transport in order to solve problems of creating new and improving existing models of equipment; higher and secondary vocational education.

**Objects of professional activity:** state and educational institutions, national and branch academies of sciences, scientific organizations, research institutes, research universities, scientific laboratories of higher educational institutions, experimental design bureaus, laboratories for collective use, research units of organizations for which scientific and (or) scientific and technical activities are not the main type of activity; transport, transport equipment and enterprises of the transport and communication complex.

### Types of professional activity:

- scientific research;
- scientific and pedagogical;

- production and technological;
- organizational and managerial;
- design and technological.

**Functions of professional activity:**

- 1) planning of research and experimental research works;
- 2) performing scientific research and experimental research;
- 3) educational: broadcasts educational information, teaches to acquire knowledge independently;
- 4) educating: introduces students to the system of social values;
- 5) social and communicative: interacts with the professional community and with all interested parties of education.

**List of specialist positions:**

- research associate;
- professor, associate professor, senior lecturer;
- manager in education;
- researcher;
- designer, head of enterprises for the repair and operation of transport and transport equipment.

**Professional certificates obtained at the end of training not provided**

**Requirements for the previous level of education:** master's degree in scientific and pedagogical direction.

The educational program of the scientific and pedagogical doctoral program includes two types of practical work:

- pedagogical practice – in the organization of education;
- research practice – at the place of the dissertation.

**Research practice.**

Research practice is a type of research activity aimed at deepening and systematizing the theoretical and methodological training of a doctoral student, practical mastery of the technology of research activities, acquisition and improvement of practical skills in performing scientific and experimental work in accordance with the requirements for the level of training of a PhD doctor.

The students' research practice is conducted in order to familiarize themselves with the latest theoretical, methodological and technological achievements of domestic and foreign science, with modern methods of scientific research, processing and interpretation of experimental data. The content of the research practice is determined by the topic of the dissertation research.

The doctoral student's research practice is conducted at the place of study or in scientific organizations, which can be considered as experimental platforms for conducting research related to the topic of a doctoral dissertation. During the practice, doctoral students are given the opportunity to conduct experimental research according to a pre-developed program that takes into account the tasks of the doctoral dissertation.

**Pedagogical practice.**

The pedagogical practice of doctoral students is the practical training of future teachers, conducted in conditions as close as possible to the professional activity of a teacher. Pedagogical practice is aimed at the formation of functional competencies, the development of abilities to perform tasks in the professional and educational spheres. In the process of pedagogical practice, the professional and personal development of future teachers is activated. During the practice, doctoral students draw up and implement an educational activity plan with a group of students, develop and conduct a system of classes reflecting the completed segment of the learning process based on the content of the profile disciplines, demonstrate mastery of modern technologies and teaching methods.

**The purpose of pedagogical practice is:**

- consolidation and deepening of knowledge in general scientific, psychological and pedagogical, methodological, basic and profile disciplines;

- formation of pedagogical skills, skills and competencies based on theoretical knowledge.

The program of pedagogical practice is developed by the department and approved by the President-Rector of the Academy of Logistics and Transport.

The program of pedagogical practice should be aimed at developing professionally significant skills in students and the formation of key competencies:

- planning, forecasting, analysis of the main components of the learning and upbringing process;
- the use of various forms and methods of organizing and implementing educational, cognitive, labor, social, environmental, recreational, gaming and other types of student activities;
- implementation of an individual approach to students in the course of educational and educational work, taking into account the peculiarities of their development;
- conducting pedagogical diagnostics of the state of the pedagogical process.

The bases of pedagogical practice are educational organizations that provide secondary vocational education, higher education.

The duration of pedagogical practice is determined by the Curriculum of the educational program in the field of personnel training 8D11 Transport services.

### **Research work of doctoral students (R&D).**

The planning of research in weeks is determined based on the standard working time of the doctoral student during the week. The number of credits allocated for the implementation of research and development in a specific academic period is determined by the working curriculum of the professional educational program in the field of personnel training 8D11 – Transport services.

NIRD should:

- 1) correspond to the main problems of the educational program of the doctoral program on which the doctoral dissertation is being defended;
- 2) be relevant and contain scientific novelty and practical significance;
- 3) be based on modern theoretical, methodological and technological achievements of science and practice;
- 4) be based on modern methods of data processing and interpretation using computer technology;
- 5) be carried out using modern methods of scientific research;
- 6) contain research (methodological, practical) sections on the main protected provisions.

The doctoral dissertation is carried out during the research period.

Within the framework of research and development, the individual work plan of a doctoral student for familiarization with innovative technologies and new types of production provides for mandatory passage of a foreign scientific internship in scientific organizations and (or) organizations of relevant industries or fields of activity.

The purpose of the research work is to prepare a doctoral student who knows the methodology of scientific knowledge of processes and is able to apply scientific methods in the study of problems of modern production, the final result of whose research activity is the writing and successful defense of a doctoral dissertation.

Tasks of research work:

- to prepare highly qualified specialists of modern formation with broad fundamental knowledge;
- to develop the abilities and abilities of doctoral students to critically analyze and master theoretical concepts in order to implement them into practice and with subsequent testing at the international level;
- to form doctoral students' abilities for professional growth and self-development, skills of independent creative mastery of new knowledge throughout their active life.

As a result of mastering the doctoral program, graduates should be prepared to perform the following types and tasks of professional research work:

- demonstrate a systematic understanding of the field of study, mastery of the skills and research methods used in this field;
- plan, develop, implement and adjust the complex process of scientific research;
- to contribute with their own original research to the expansion of the boundaries of the scientific field, which may deserve publication at the national or international level;
- critically analyze, evaluate and synthesize new and complex ideas;
- communicate their knowledge and achievements to colleagues, the scientific community and the



general public;

- to promote the development of a knowledge-based society.

The foreign scientific internship is conducted in order to:

- performing the tasks of the doctoral dissertation;
- familiarization with innovative technologies and new types of production;
- familiarization with the latest theoretical, methodological and technological achievements of domestic and foreign science;
- familiarization with modern methods of scientific research, processing and interpretation of experimental data;
- consolidation of theoretical knowledge gained in the course of training, acquisition of practical skills, competencies and professional experience in the specialty being studied, as well as the development of advanced foreign experience.

### **Requirements for R&D:**

- 1) compliance with the main problems of the educational program of the doctoral program on which the doctoral dissertation is being defended;
- 2) relevant and contains scientific novelty and practical significance;
- 3) based on modern theoretical, methodological and technological achievements of science and practice;
- 4) is based on modern methods of data processing and interpretation using computer technology;
- 5) performed using modern methods of scientific research;
- 6) contains research (methodological, practical) sections on the main protected provisions.

The Academy defines special requirements for the preparation of a doctoral student in the research part of the program. Special requirements include:

- knowledge in the field of scientific and managerial activity in the conditions of constant updating of knowledge and modernization of society;
- conducting independent research activities on problems and disciplines;
- the ability of practical processing and transmission of information using modern technical means;
- ability to predict the directions of technical and scientific development of the country;
- possession of modern specialized skills and methods necessary for making effective decisions in the field of engineering and technology.

The main content of the research is reflected in the individual work plan of the doctoral student.

### **The content of the R&D:**

The research work of a doctoral student can be carried out in the following forms:

- performance of tasks of the scientific consultant in accordance with the approved plan of research work;
- participation in the research work of the department;
- participation in scientific and methodological seminars held by the Academy, the Department;
- the use of modern methods of data processing and interpretation using computer technology;
- participation in the development of project documents and other provisions related to the subject area of scientific research;
- participation in scientific research, including joint research projects and programs;
- preparation and defense of a doctoral dissertation.

The forms of research work of doctoral students can be specified and supplemented depending on the specifics of the doctoral program, the topics of doctoral dissertations.

The research work of doctoral students includes:

- research work;
- field scientific trips (including participation in scientific conferences and seminars, internship at the basic university of a foreign scientific consultant);
- scientific publications;
- writing a doctoral dissertation.

### **Organization of a foreign scientific internship within the framework of Research and**

## **development.**

The foreign scientific internship is one of the most important components in the preparation of PhD doctors and is implemented in accordance with the IPRD in terms determined by the academic calendar and the individual work plan of the doctoral student.

The terms of the foreign scientific internship are determined by the Academy independently. The passage of a foreign scientific internship is usually planned for the second year of doctoral studies.

The foreign scientific internship of a doctoral student is carried out on the basis of contracts concluded with enterprises / organizations / institutions, universities and scientific organizations and leading scientists of foreign countries within the framework of Agreements and Memoranda of cooperation in the field of education and science, as well as on the basis of personal invitations from educational and scientific organizations.

The completion of training under exchange programs, including double degree programs, joint educational programs with foreign universities and organizations is equivalent to passing a foreign scientific internship.

The foreign internship of doctoral students is carried out within the framework of a dissertation research at a university and/or a large research center near or far abroad at the place of work of a foreign consultant within the terms agreed with him.

In case of non-completion of a foreign scientific internship, a doctoral student is not allowed to complete the final certification.

**The final certification of a doctoral student** is carried out in the form of writing and defending a doctoral dissertation.

**The purpose of the final certification of a doctoral student** is to assess the scientific-theoretical and research-analytical level of a doctoral student, the formed professional and managerial competencies, readiness to independently perform professional tasks and compliance of his training with the requirements of the educational program of doctoral studies.

Students who have completed the educational process in accordance with the requirements of the educational program, working curriculum and working curricula, as well as who have passed the preliminary defense (extended meeting) based on the results of the dissertation research are allowed to the final certification.

**5. MATRIX OF CORRELATION OF LEARNING OUTCOMES ACCORDING TO THE EDUCATIONAL PROGRAM WITH ACADEMIC DISCIPLINES/MODULES**

№	Name of the discipline	Number of credits	Matrix of correlation of learning outcomes according to the educational program with academic disciplines				
			LO1	LO2	LO3	LO4	LO5
1	Academic writing	4	+				
2	Methods of scientific research	6		+	+		
3	Pedagogical practice	10	+	+			
4	Outsourcing in transport	5			+	+	
5	Methodology of transport user service	5		+	+		
6	Reengineering of transport processes	5			+	+	
7	Forecasting of traffic flows	5		+			+
8	System analysis of transport operation	5		+			+
9	Research practice	10			+	+	+
10	Research work	123		+		+	+
11	Final certification	12	+	+	+	+	+

**6. THE STRUCTURE OF THE EDUCATIONAL PROGRAM OF DOCTORAL STUDIES IN THE SCIENTIFIC AND PEDAGOGICAL DIRECTION**

№ п/п	The name of the cycles of disciplines	Total labor intensity	
		in academic hours	in academic credits
<b>1</b>	<b>Theoretical training</b>	<b>1350</b>	<b>45</b>
<b>1.</b>	<b>Cycle of basic disciplines (BD)</b>	<b>750</b>	<b>25</b>
1)	Required component	300	10
	Academic writing	120	4
	Methods of scientific research	180	6
2)	Component of choice	150	5
3)	Pedagogical practice	300	10
<b>1.2</b>	<b>Cycle of profile disciplines (PD)</b>	<b>600</b>	<b>20</b>
1)	Required component	150	5
2)	Component of choice	150	5
3)	Research practice	300	10
<b>2</b>	<b>Research work of doctoral students</b>	<b>3690</b>	<b>123</b>
1)	Research work of a doctoral student, including internship and doctoral dissertation	3690	123
<b>3</b>	<b>Additional types of training</b>	<b>-</b>	<b>-</b>
<b>4</b>	<b>Final certification</b>	<b>360</b>	<b>12</b>
1)	Writing and defending a doctoral dissertation	360	12
	<b>Total</b>	<b>5400</b>	<b>180</b>

# 7. THE CURRICULUM FOR THE ENTIRE PERIOD OF STUDY

JSC "Academy of Logistics and Transport"

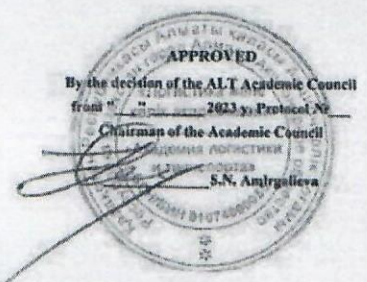
Form of study: full-time

Duration of study: 3 years

Admission: 2023

## STUDY PLAN

Direction of training:  
 8D113 - Transportation services  
 Group of educational programs:  
 D147 - Transportation services  
 Name of the educational program:  
 8D11361 - Organization of transportation, traffic and operation of transport  
 Degree: Doctor of Philosophy PhD



№	Discipline code	Name of cycles and disciplines	Total labor intensity		Form of control, semester		The amount of study load, contact hours						Distribution by semester						Separating the chair	
			in academic hours	in academic credits	Exam	KP (KR)	Total hours	Classroom			IWSU		1course		2course		3course			
								lectures	practical	laboratory	IWSUT	IWSU	1 sem. 15 weeks	2 sem. 15 weeks	3 sem. 15 weeks	4 sem. 15 weeks	5 sem. 15 weeks	6 sem. 15 weeks		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	18	19	20	23	
1.	<b>CYCLE OF BASIC DISCIPLINES (BD)</b>		750	25	5	0	450	60	90	0	24	275	15	10	0	0	0	0		
1.1.	University component:		600	20	3		300	30	75	0	16	179	10	10	0	0	0	0		
1.1.1.	19-0-D-VK-AP	Academic writing	120	4	1		120		45		8	67	4							LT
1.1.2.	19-0-D-VK-MNE	Research methods	180	6	1		180	30	30		8	112	6							OTOT
1.1.3.	19-0-D-VK-PedPr	Pedagogical practice	300	10	2								10							SHDPI
1.2.	Component of choice:		150	5	2		150	30	15	0	8	97	5	0	0	0	0	0		
1.2.1.	19-59-D-KV-AT	Outsourcing in transport	150	5	1		150	30	15		8	97	5							OTOT
	19-59-D-KV-MOFT	Methodology of transport user service	150	5	1		150	30	15		8	97	5							OTOT
2.	<b>CYCLE OF PROFILE DISCIPLINES (PD)</b>		600	20	6	0	300	60	30	0	16	194	10	0	10	0	0	0		
2.1.	University component:		450	15	4		150	30	15	0	8	97	5	0	10	0	0	0		
2.1.1.	19-59/60-D-KV-RDP	Business process reengineering	180	6	1		180	30	15		8	97	5		10	0	0	0		LTM
2.1.2.	19-0-D-VK-bPr	Research practice	300	10	3									10						OTOT
2.2.	Component of choice:		150	5	2		150	30	15	0	8	97	5	0	0	0	0	0		
2.2.1.	19-59/60-D-KV-FTP	Forecasting of transport flows	150	5	1		150	30	15		8	97	5							OTOT
	19-59/60-D-KV-SART	System analysis of the transports work	150	5	1		150	30	15		8	97	5							OTOT
<b>TOTAL FOR THE THEORETICAL COURSE OF STUDY (TCS):</b>			1350	45	11	0	750	120	120	0	40	470	25	10	10	0	0	0		
3.	19-0-D-VK-NIRD	<b>RESEARCH WORK OF A DOCTORAL STUDENT</b>	360	12									5	20	20	30	30	18		OTOT
4.	19-0-D-VK-IA	<b>FINAL CERTIFICATION: Writing and defending a doctoral dissertation</b>	360	12														12		OTOT
<b>TOTAL FOR THE ENTIRE PERIOD OF STUDY:</b>			5400	180	11	0	750	120	120	0	40	470	30	30	30	30	30	30		
<b>ADDITIONAL TYPES OF TRAINING (ATT):</b>																				
5.	Additional types of training (ATT):																			

AGREED:  
 Vice-Rector for AA Maly Zhar magambetova M.S.  
 Director DAPQ Lipkova M.A. Lipskova M.A.

DEVELOPED BY:  
 Director of the Institute "LaM" Kaltaev A.K. Kaltaev A.K.  
 Acting head of the department "OTOT" Abibullaev S.Sh. Abibullaev S.Sh.

## 8. CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

### EDUCATIONAL PROGRAMS

### 8D11361 – Organization of transportation, traffic and operation of transport

Education level: Doctoral studies (PhD)

Duration of study: 3 years

Year of admission: 2023

Cycle	Component	Name of the discipline	Total labor intensity		Semester	Learning outcome	Brief description of the discipline	Prerequisites	Post-requisites
			in academic hours	in academic credits					
1	2	3	4	5	6	7	8	9	10
BD	RC	Academic writing	120	4	1	LO1	The objectives of the discipline are: mastering by doctoral students the theory of academic writing as a system, as well as concepts and models of academic writing. The objectives of the discipline also include the formation of students' skills and abilities to write academic and scientific texts, various written scientific discourses.	Master's degree disciplines	Research practice, Research work of a doctoral student, final certification
BD	RC	Methods of scientific research	180	6	1	LO2, LO3	The main methods of scientific research are described, various levels of scientific knowledge are considered. The stages of research work are highlighted, including the choice of the research direction, the formulation of a scientific and technical problem, the conduct of theoretical and experimental research, recommendations for the design of the results of scientific work.	Master's degree disciplines	Research practice, Research work of a doctoral student, final certification
PD	RC	Business process reengineering	150	5	1	LO3, LO4	A system of reorganization of material, financial and information flows aimed at simplifying the organizational structure, redistributing and minimizing the use of various resources, reducing the time needed to meet customer needs, and improving the quality of their service. Application of methods and models for the study of logistics business processes in the construction of the transport and logistics system of the Republic of Kazakhstan; determination of the best way to translate an existing business process into an optimal logistics process	Master's degree disciplines	Research practice, Research work of a doctoral student, final certification
BD	RC	Pedagogical practice	300	10	2	LO1, LO2	Pedagogical practice is aimed at the formation of a comprehensive psychological and pedagogical, methodological and information technology readiness of a doctoral student for scientific and pedagogical activity at a university. The main objectives of the pedagogical practice of doctoral students: the study of the basics of pedagogical and educational-methodical work in universities	Academic writing	Final certification
PD	RC	Research practice	300	10	3	LO3, LO4, LO5	The purpose of the research practice is: analytical review of scientific and patent literature on the subject of scientific research in the field; acquisition of skills to work on modern scientific and/ or technological equipment; acquisition of skills for independent research work, as well as work as part of research teams.	Cycle of basic disciplines, Cycle of profile disciplines	Research work of a doctoral student, final certification

		Research work of doctoral students	3690	123	1, 2, 3, 4, 5, 6	LO2, LO4, LO5	The main goal is to study the latest theoretical, methodological and technological achievements of domestic and foreign science, as well as to consolidate practical skills in applying modern methods of scientific research, processing and interpretation of experimental data in dissertation research.	Cycle of basic disciplines, Cycle of profile disciplines, Research practice	Final certification
		FINAL CERTIFICATION: Writing and defending a doctoral dissertation	360	12	6	LO1-LO5	The purpose of the final certification of a doctoral student is to assess the learning outcomes and key competencies achieved upon completion of the study of the doctoral program.	Cycle of basic disciplines, Cycle of profile disciplines.	

## 9. CATALOG OF DISCIPLINES OF THE COMPONENT BY CHOICE

EDUCATIONAL PROGRAM

8D11361 - Organization of transportation, traffic and operation of transport

Education level: Doctoral studies (PhD)

Duration of study: 3 years

Year of admission: 2023

Cycle	Component	Name of the discipline	Total labor intensity		Semester	Learning outcome	Brief description of the discipline	Prerequisites	Post-requisites
			in academic hours	in academic credits					
2	3	4	5	6	7	8	9	10	11
BD	CC	Transport outsourcing	150	5	1	LO3, LO4	obtaining knowledge and information about the basics of organizing outsourcing activities on the main railway transport, methods and tasks of outsourcing activities, types of outsourcing in the organization of work on the main railway transport in the field of freight transportation, the procedure for drawing up tender documentation and conducting tenders to attract outsourcing companies to serve cargo owners and maintain the terminal and warehouse facilities of railway transport.	Master's degree disciplines	Research practice, Research work of a doctoral student, final certification
BD	CC	Methodology for servicing transport users				LO2, LO3	The discipline covers the following issues: Determining the indicators of the use of the fleet of freight cars. Assessment of the quality of transportation. Determination of performance indicators of transport enterprises. Determination of the capital return of fixed assets of the road division. Determination of the efficiency of the use of fixed assets of the railway. Calculation of the performance plan implementation by a motor transport company.		
PD	CC	Traffic flow forecasting	150	5	1	LO2, LO5	The purpose of the discipline is to study the following issues: Forecasting of cargo flows and technical development of the unified transport system. Theoretical prerequisites for optimizing the transportation process in transport systems. Optimization of the capacity of permanent devices of transport systems and their throughput capacities. Improving the system of operational management of interaction between different types of transport. Areas of optimal interaction between different modes of transport and the development of their competitiveness.	Master's degree disciplines	Research practice, Research work of a doctoral student, final certification



PD	CC	System analysis of transport operation				LO2, LO5	The purpose of the discipline is to analyze the functioning of the transport system, the changes occurring in it and to prepare scientifically based tools that allow the system to be rebuilt in accordance with the changes in the situation, as well as to study the nature of the flow of transport processes in various transport systems, solving problems of planning, forecasting the operation of transport systems, transport nodes, organizing operational, calendar management of complex transport systems.	Master's degree disciplines	Research practice, Research work of a doctoral student, final certification
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## **10. EXPERT OPINIONS**

## EXPERT OPINION

### 8D11361-Organization of Transportation, movement and operation of transport to the educational program

Level of training: doctorate (PhD)

Code and classification of training routes: 8D11 Transport services

Code and group of educational programs: D147 Transport services

The purpose of the educational program is to train highly qualified scientific, pedagogical and managerial personnel with innovative and professional competencies and skills to generate ideas, predict the results of innovative activities, manage complex production and scientific processes, present methodological knowledge in the field of organization and management of the transportation process in transport.

Field of professional activity: Sections of science and technology that study connections and patterns in the theory of motion, calculations, design, testing and operation of ground transport in order to solve problems of creating new and improving existing models of equipment; higher and secondary vocational education.

The educational program is aimed at the formation of professional and scientific competencies among undergraduates necessary for the training of scientific and pedagogical staff.

As can be seen from the educational program, the content of the disciplines is quite capacious and meets modern requirements for undergraduates who can find application of their qualifications in production, science, educational institutions and other sectors of the economy.

The educational program is aimed at training professional scientific and pedagogical personnel in the field of Transport services with high scientific potential, who are able to formulate and solve modern scientific and practical problems, organize and conduct research activities in the chosen direction.

The educational program has sufficient personnel, educational and methodological, informational and logistical support necessary for the training of highly qualified specialists.

Based on the analysis of the educational program for the preparation of doctoral students 8D11361-Organization of transportation, traffic and operation of transport, it can be concluded that this program opens up wide opportunities for the training of highly qualified specialists in the field of Transport services.

**SIC «Development of the transportation process» LLP,  
Director of Commercialization, c.t.s.**



**A. Sman**

## EXPERT OPINION

### 8D11361-Organization of Transportation, movement and operation of transport to the educational program

Level of training: doctorate (PhD)

Code and classification of training routes: 8D11 Transport services

Code and group of educational programs: D147 Transport services

The educational program regulates the purpose, expected results, content, conditions and technologies for the implementation of the educational process, assessment of the quality of graduate training in this field of training.

The purpose of the educational program 8D11361 – "Organization of transportation, traffic and operation of transport" is to train highly qualified scientific, pedagogical and managerial personnel with innovative and professional competencies and skills to generate ideas, predict the results of innovative activities, manage complex production and scientific processes, present methodological knowledge in the field of organization and management of the transportation process in transport.

Among the specific advantages of the program, it should be noted that a sufficiently experienced teaching staff is involved in its implementation, as well as practitioners who provide theoretical classes at a high professional level, as well as professionally prepare students for practical training and professionally provide guidance during practical training.

Teachers from among the current managers and leading employees of specialized organizations, enterprises and institutions are involved in the educational process.

In summary, I would like to note that, in general, the reviewed educational program fully meets all the requirements of the state educational standard of higher professional education in the field of training 8D11 Transport services (qualification "doctor PhD"), corresponds to the formation of general cultural and professional competencies in the field of training, as well as the requirements of the professional community and can be used to carry out educational activities in the direction of training qualified specialists for the transport and communication, scientific and pedagogical sector of the republic.

«TransCom» LLP,  
Transportation Analyst, c.t.s.



M. Aikumbekov

## **11. REVIEWER'S CONCLUSION**

## REVIEW

### **8D11361-Organization of Transportation, movement and operation of transport to the educational program**

**Level of training: doctorate (PhD)**

**Code and classification of training routes: 8D11 Transport services**

**Code and group of educational programs: D147 Transport services**

The educational program regulates the goals, expected results, content, conditions and technologies for the implementation of the educational process, assessment of the quality of graduate training in this field of training and includes: curriculum, and other materials that ensure the quality of training of students

The strategic goal of the educational program is to train highly qualified specialists capable of managing research processes and innovation activities in organizations of any organizational and legal form (commercial, non-commercial, state, municipal), as well as in the field of state innovation infrastructure management.

One of the advantages is taking into account the requirements of employers in the formation of compulsory disciplines, which in their content allow to ensure the competence of the graduate. The quality of the content component of the curriculum is beyond doubt. The disciplines included in the plan reveal the essence of the current economic problems.

The educational program «8D11361-Organization of transportation, traffic and operation of transport» – training of scientific and scientific-pedagogical personnel in doctoral studies, implemented in the direction of training 8D11 Transport services fully meets the requirements, reflects a comprehensive and targeted approach for the qualitative training of scientific and pedagogical personnel in doctoral studies in the direction of training highly qualified personnel with professional skills and competencies necessary for further professional activity in the relevant field of training.

Based on the above, I believe that the educational program «8D11361-Organization of transportation, traffic and operation of transport» of scientific and scientific-pedagogical personnel in doctoral studies can be implemented and used in the educational process.

**Director of the Department  
of Transportation Activities  
«TransCom» LLP**



**Zhumataev A.Zh.**

## 12. RECOMMENDATION LETTERS

**To the President-Recor  
of the Academy of Logistics and Transport  
S.N. Amirgalieva**

AZURITE RAILWAY  
SOLUTIONS LLP  
WWW.AZURITE.TRADE

**Dear Saltanat Nuradilovna!**

The management of «AZURITE RAILWAY SOLUTIONS» (АЗУРИТ РЭЙЛУЭЙ СОЛЮШНС) LLP, represented by General Director Sharubekov M.N., got acquainted with the content of the educational program 8D11361 - "Organization of transportation, traffic and operation of transport".

The educational program as a whole meets the requirements of the modern market, the goal is to train highly qualified scientific, pedagogical and managerial personnel with innovative professional competencies and skills to generate ideas and also makes the following recommendations:

- to include in the content of the educational program disciplines that form graduates' ideas about management activities in transport companies;
- in order to achieve certain competencies, it is necessary to provide for students to complete all types of internships and internships at the bases of leading logistics and transport companies;
- to achieve the result of training in the formulation of methods of assessment, analysis, forecasting and improvement of transport systems, it is necessary to strengthen the content of the studied disciplines in relation to scientific analysis and analytical work;

It is also necessary to strengthen the content of the studied disciplines in the following areas:

- analysis of the results of the work of transport enterprises;
- identification of problematic issues in management and transportation activities;
- forming knowledge and skills of special sections of mathematics and economics, in the study of which software products are used.

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4<sup>TH</sup> FLOOR,  
15 REPUBLIC SQUARE,  
ALMATY,  
KAZAKHSTAN

**General Director  
of «AZURITE RAILWAY SOLUTIONS»  
(АЗУРИТ РЭЙЛУЭЙ СОЛЮШНС) LLP**



**Sharubekov M.N.**



### 13. PROTOCOLS OF REVIEW AND APPROVAL

Академия логистики и транспорта

#### ПРОТОКОЛ № 6

##### Заседания

Академического комитета по образовательной программе и ведущих преподавателей кафедры «Организация перевозок и эксплуатация транспорта»

г. Алматы

«16» февраля 2023 года

**Председатель:** Абибуллаев С.Ш.

**Секретарь:** Суйеншипова М.

**Присутствовали:** И.о. зав.кафедрой «ОПЭТ», ассистент-профессор Абибуллаев С.Ш.; ассоциированные профессора Альтаева Ж.Ж., Вахитова Л.В.; ассоциированные профессора АЛИТ: Мусабаев Б.К., Молгаждаров А.С.; ассистент-профессоры: Избаирова А.С., Муратбекова Г.В.; сениор-лекторы: Бекмагамбетова Л.К., Нуржаубаев М.; Лектор: Алданазаров К.Т., специалист Суйеншипова М.Е.

**Представители с производства:** Начальник отдела АСУ, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматинское отделение ГП» - Абдреев Г.А., Начальник станции Алматы-1, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматинское отделение ГП» - Садыков Б.А., Начальник отдела диспетчерского управления перевозками ТОО «Транском» - Косыбаев К.К., Генеральный директор ТОО «Azurite Railway Solutions» - Шарубеков М.Н., Начальник регионального центра управления движением поездов по Юго-Восточному региону ТОО «КТЖ-Грузовые перевозки» - Турғалиев А.Е., Начальник вокзала Алматы-2 – Акпанов Б.Б.

**Обучающиеся:** обучающийся группы УС-ОП-21-3р Мусин Д.А., обучающийся группы МН-ЭЭИВЖТ-22-1 Муратбеков Б.П., обучающийся группы МН-ОПДЭТ-22-1 Асанов А.Ж.

#### ПОВЕСТКА ДНЯ:

1. Рассмотрение компетентностной модели выпускника
2. Рассмотрение возможности включения дисциплин в КЭД и РУП

#### По первому вопросу

##### ВЫСТУПИЛ:

И.о. зав.кафедрой Абибуллаев С.Ш. предложил рассмотреть компетентностную модель выпускника по 3 уровням образования: бакалавриат, магистратура, докторантура. Представлены образовательные программы 6В11326-ОПДЭТ, 7М11351/52-ОПДЭТ, 7М11353-ЭЭИВЖТ, 8Д11361-ОПДЭТ.

Компетентностная модель выпускника включает в себя следующие части:

- Цель и задачи образовательной программы;
- Результаты обучения;
- Область, объекты, виды и функции профессиональной деятельности;
- Перечень должностей по образовательной программе;
- Профессиональные сертификаты, полученные по окончании обучения;
- Требования к предшествующему уровню образования.

##### ВЫСТУПИЛ:

Представитель работодателей: Садыков Б.А., который предложил в силу специфики их организации отразить в объектах профессиональной деятельности следующее: процессы организации и управления эксплуатационной деятельности пассажирского и грузового транспорта.

**ВЫСТУПИЛ:**

Ассоциированный профессор АЛит Молгаждаров А.С., который предложил в образовательных программах учесть проведение ряда практических занятий на производственной базе, в филиале кафедры в филиале «ТОО-Грузовые перевозки» - «Алматинское отделение ГП». Кроме того, следует внести в учебные планы актуализированные дисциплины, которые требуется согласовать с представителями работодателей.

После рассмотрения компетентностной модели выпускника было предложено утвердить данную Модель по 3 уровням образования для образовательных программ 6В11326-ОПДЭТ, 7М11351/52-ОПДЭТ, 7М11353-ЭЭИВЖТ, 8Д11361-ОПДЭТ.

**ПОСТАНОВИЛИ:** Представить компетентностную модель выпускника по 3 уровням образования: бакалавриат, магистратура, докторантура по образовательным программам 6В11326-ОПДЭТ, 7М11351/52-ОПДЭТ, 7М11353-ЭЭИВЖТ, 8Д11361-ОПДЭТ для рассмотрения и утверждения на Совете института «Логистика и управление».

**По второму вопросу**

**ВЫСТУПИЛ:** И.о. зав.кафедрой Абибуллаев С.Ш. с предложением заслушать представителей работодателей и обучающихся по включению новых дисциплин в КЭД и РУП приема 2023г.

**ВЫСТУПИЛ:** представитель работодателей Косыбаев К.К.

Организации заинтересованы в специалистах, имеющих хороший уровень подготовки и знаний в области организации перевозок, движения и эксплуатации транспорта. Вносим предложения о внесении в РУП следующих востребованных дисциплин: Наименование дисциплин для внесения в ОП 6В11326-ОПДЭТ: «Организация эксплуатационной работы железнодорожного участка»; «Пассажирский транспортный комплекс»; «Транспортная безопасность и системы управления движением поездов»; «Проектирование и эксплуатация железных дорог» (Устройство ж.д. пути (было не в полном объеме)).

**ВЫСТУПИЛ:** представитель работодателей Шарубеков М.Н. Вносим предложения о внесении в РУП следующих востребованных дисциплин для образовательных программ магистратуры. Наименование дисциплин для внесения в ОП 7М11351/52-ОПДЭТ: «Интеллектуальные транспортные системы»; «Методы принятия управленческих решений»; «Моделирование работы транспортных узлов»; «Транспортная безопасность».

**ВЫСТУПИЛИ:** представители работодателей Турғалиев А.Е., Акпанов Б.Б.

Организации заинтересованы в специалистах, имеющих хороший уровень подготовки и знаний в области организации перевозок, движения и эксплуатации транспорта. Вносим предложения о внесении в РУП следующих востребованных дисциплин: Наименование дисциплин для внесения в ОП 6В11326-ОПДЭТ: «Особые условия перевозок грузов»; «Организация работы оперативного персонала»; «Управление работой грузовой станции»; «Оптимизация транспортных потоков». Наименование дисциплин для внесения в ОП 7М11351/52-ОПДЭТ: «Прогнозирование и организация транспортных потоков»; «Бережливое производство»; «Смарт-технологии на транспорте»; «Система организации транспортных потоков».

**ВЫСТУПИЛ:** обучающийся Мусин Д.А.

Для нашего общего развития и формирования soft-skills считаем необходимым включить в РУП следующие дисциплины: «Тайм-менеджмент»; «Управленческая экономика».

**ПОСТАНОВИЛИ:**

1. Информацию принять к сведению;
2. Учесть предложения и рекомендации работодателей и обучающихся;
3. Рассмотреть включение в РУП следующие дисциплины:

**Наименование дисциплины для внесения в ОП 6В11326-ОПДЭТ:**

1. Организация эксплуатационной работы железнодорожного участка;
2. Пассажирский транспортный комплекс;
3. Транспортная безопасность и системы управления движением поездов;
4. Проектирование и эксплуатация железных дорог (Устройство ж.д. пути (было не в полном объеме));
5. Особые условия перевозок грузов.
6. Организация работы оперативного персонала
7. Управление работой грузовой станции
8. Оптимизация транспортных потоков
9. Тайм-менеджмент;
10. Управленческая экономика.

**Наименование дисциплины для внесения в ОП 7М11351/52-ОПДЭТ:**

1. Интеллектуальные транспортные системы
2. Методы принятия управленческих решений
3. Моделирование работы транспортных узлов
4. Транспортная безопасность
5. Прогнозирование и организация транспортных потоков
6. Бережливое производство
7. Смарт-технологии на транспорте
8. Система организации транспортных потоков

Председатель



Абибуллаев С.Ш.

Секретарь



Суйенишова М.Е.

Академия логистики и транспорта

ПРОТОКОЛ № 4

Заседания КОК УМБ института «Логистика и управление»

г. Алматы

«21» февраля 2023 года

**Председатель:** Калтаев А.К.

**Секретарь:** Маулина Н.Х.

**Присутствовали:** Калтаев А.К – председатель, директор института «ЛиУ» ассистент-профессор АЛТ; Бадамбаева С.Е – зам. председателя, зам. директора института «ЛиУ», Еленица Ж.Б. - секретарь, ассистент-преподаватель кафедры «ЛМТ», зав. кафедрой «ОПЭТ», ассоц. профессор Битилеуова З.К., зав. кафедрой «ЛМТ», ассоц. профессор Мусалиева Р.Д., в.о. зав. кафедрой «ОПЭТ», ассистент-профессор Абибуллаев С.Ш., ассоц. профессор кафедры «ЛМТ» Арзаева М.Ж., ассистент-профессор кафедры «ЛМТ» Сугурова А.Ж., ассистент-профессор кафедры «ЛМТ» Маликова Л.М., ассистент-профессор кафедры «ЛМТ» Мурзабекова К.А., ассоц. профессор кафедры «ОПЭТ» Вахитова Л.В., ассистент-профессор кафедры «ОПЭТ» Альтаева Ж.Ж., ассоц. профессор кафедры «ОПЭТ» Мусабаев Б.К., ассист. профессор кафедры «ОПЭТ» Муратбекова Г. В., ассоц. профессор АЛТ кафедры «ОПЭТ» Молгаждаров А.С.; ассистент-профессор кафедры «ОПЭТ» Избаирова А.С., сениор-лектор кафедры «ЛМТ» Урсарова А.К., сениор-лектор кафедры «ОПЭТ» Нуржаубаев М.М., сениор-лектор кафедры «ОПЭТ» Алданазаров К.Т, лектор кафедры «ЛМТ» Ебесова А.Б, докторант Олжабаева Р.С.

**Представители с производства:** Начальник отдела АСУ, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматинское отделение ГП» - Абдреев Г.А., Начальник станции Алматы-1, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматинское отделение ГП» - Садыков Б.А., Начальник отдела диспетчерского управления перевозками ТОО «Транском» - Косыбаев К.К., Генеральный директор ТОО «Azurite Railway Solutions» - Шарубеков М.Н., Начальник регионального центра управления движением поездов по Юго-Восточному региону ТОО «КТЖ-Грузовые перевозки» - Тургалиев А., Начальник вокзала Алматы-2 – Акпанов Б.Б., директор ТОО «STLC» - Токтамысова А.Б.

**Обучающиеся:** обучающийся группы УС-ОП-21-3р Мусин Д.А., обучающийся группы МН-ЭЭИВЖТ-22-1 Муратбеков Б.Н., обучающийся группы МН-ОПЭТ-22-1 Асанов А.Ж., обучающийся группы МН-РИЛ-21-1 Еркебай Айя, обучающийся группы ТЛ-20-4 Сасамбаев Д.Т,

**ПОВЕСТКА ДНЯ:**

1. Рассмотрение Каталога элективных дисциплин (КЭД), Рабочей учебной программы (РУП), паспорта образовательных программ бакалавриата, магистратуры и докторантуры.

**ВЫСТУПИЛ(а):** зав. кафедрой «ОПЭТ» Абибуллаев С.Ш. представил на рассмотрение КЭД, РУП бакалавриата, магистратуры и докторантуры.

На кафедре «ОПЭТ» было проведено заседание с привлечением представителей работодателей и обучающихся по обсуждению структуры и содержанию образовательных программ бакалавриата, магистратуры и докторантуры 6В11326-Организация перевозок, движения и эксплуатация транспорта; 6В11367-Организация дорожного движения; 7М11351 (7М113:2)- Организация перевозок, движения и эксплуатация транспорта.

Представителями работодателей и обучающимися были предложены ряд новых актуальных дисциплин, которые кафедра одобрила и включила в новые КЭД и РУП.


**ПОСТАНОВИЛИ:**

1. Информацию принять к сведению;
2. Учесть все предложения и рекомендации работодателей, представителей студенческого актива;

3. Представить КЭД, РУП и ОП бакалавриата, магистратуры и докторантуры для рассмотрения и утверждения на Совете института, УС Академии.

Председатель КОК УМБ

Секретарь



Калтаев А.К.

Маулина Н.Х.



