

**JOINT STOSC COMPANY «ALT University»
named after MUKHAMEDZHAN TYNYSHBAYEV**



APPROVED
by decision of the ALT US from
27"03 2025 (Minutes №8)
Chairman of the Board-Rector
Zharmagambetova M.S.

EDUCATIONAL PROGRAM

Name: 8D07170 TRANSPORT FACILITIES

Level of training: Doctorate

Code and classification of areas of study: 8D071 Engineering and engineering affairs

Code and group of educational programs: D310 – Transport facilities

Date of registration in the Register: 30.06.2025

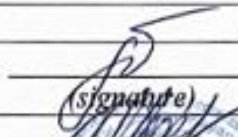
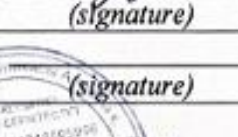
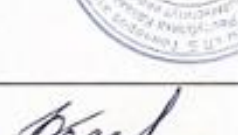
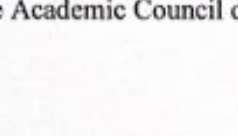
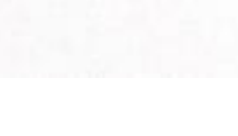
Registration number: 8D07100151

Almaty 2025 y.

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

1 DEVELOPED:		
<u>Associate Professor</u> (job title)	 (signature)	<u>Yespayeva G.A.</u> (FULL NAME)
<u>Apple Build Project LLP</u> <u>ch.engineer</u> (job title)	 (signature)	<u>Kurmanbekov J.K.</u> (FULL NAME)
<u>Associate Professor ALT</u> (job title)	 (signature)	<u>Turumbekova K.S.</u> (FULL NAME)
<u>Head of the Department of "ASI"</u> (job title)	 (signature)	<u>Kulmanov K.S.</u> (FULL NAME)
<u>Associate Professor ALT</u> (job title)	 (signature)	<u>Dyusengalieva T.M.</u> (FULL NAME)
<u>Student gr. ADA-22-3</u> (job title)	 (signature)	<u>Koishibai A.A.</u> (FULL NAME)
2 EXPERTS:		
<u>Saulet-SKB LLP, Direktor</u> (job title)	 (signature)	<u>Oshanov A.E.</u> (FULL NAME)
<u>«Kazakh Promtransportprojeht»</u> <u>LLP ch.engineer</u> (job title)	 (signature)	<u>Musaev M.T.</u> (FULL NAME)
3 REVIEWER:		
<u>Associate professor of "TSiU"</u> <u>KazADI named after</u> <u>L. Goncharov</u> (job title)	 (signature)	<u>Abiev B.A.</u> (FULL NAME)
4 REVIEWED AND RECOMMENDED:		
<u>AC meeting (department) «ASI»</u> <u>Protocol №7, «18» 02.2025z</u>	 (signature)	<u>Kulmanov K.S.</u> (FULL NAME)
<u>UMB meeting «TaC»</u> <u>Protocol №8, «17»03.2025z</u>	 (signature)	<u>Abdreshov SH.A.</u> (FULL NAME)
<u>EMC meeting</u> <u>Protocol №4, «20»03.2025z</u>	 (signature)	<u>Zharmagambetova M.S.</u> (FULL NAME)

5 APPROVED by the decision of the Academic Council dated « 27 » 03 2025r. №8
6 UPDATED

2. NORMATIVE REFERENCES

The educational program has been developed on the basis of the following regulatory 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 of the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations.

3. The sectoral qualifications framework for the "highways" industry was approved by the Protocol Decision of the Sectoral Council for Professional Qualifications in the Field of Highways No. 3 dated September 20, 2024

4. The State mandatory Standard of Higher and Postgraduate Education ((Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No. 2 (as amended by Order of the Acting Minister of Science and Higher Education of the Republic of Kazakhstan dated 04/22/2025 No. 200)).

5. Qualification directory of positions of managers, specialists and other employees, approved by 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 organizing the educational process on credit technology of education in organizations of higher and (or) postgraduate education, approved by Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan No. 152 dated 04/20/2011. (as amended by the Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated 03/26/2025 No. 134).

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 for including and excluding educational programs in the Register of Educational Programs of Higher and Postgraduate Education, approved by 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. RI-ALT-33 "Regulation on the procedure for developing an educational program for higher and postgraduate education".

10. Atlas of new professions: "Technologist of road construction from recycled plastic".

3. PASSPORT OF THE EDUCATIONAL PROGRAM

№	Fieldname	Note
1	Registrationnumber	8D07100151
2	Code and classification of the field of education	8D07 Engineering, manufacturing and construction industries
3	Code and classification of training areas	8D071 – Engineering and engineering affairs
4	Code and group of the educational program (OP)	D310 – Transport facilities
5	Name of the educational program (OP)	8D07170 Transport facilities
6	Type of educational program (EP)	New EP
7	The purpose of the educational program (OP)	Training of highly qualified scientific and engineering personnel capable of independently conducting fundamental and applied research, developing and implementing innovative technologies, as well as managing complex projects in the field of design, construction, reconstruction and operation of transport facilities, taking into account modern requirements of sustainable development, digitalization and international engineering standards.
8	Level according to the International Standard Classification of Education (ISCED)	8
9	National Qualification Framework (NQF) level	8
10	Level according to the Industry Qualification Framework (ORC)	8
11	Distinctive features of the educational program (EP)	No
	Partner university, joint educational program (SOP)	
	Partner university, double-degree educational program (DDOP)	
12	Formoftraining	Online, offline
13	Languageofinstruction	Kazakh, Russian, English
14	Volumeofloans	180
15	Academicdegreeawarded	Doctorate
16	Availability of an appendix to the license for the direction of training	KZ87LAA00036465
17	Availability of educational program accreditation (OP)	
	Name of the accreditation body	
	Validityperiodofaccreditation	

4. THE GRADUATE'S COMPETENCE MODEL

Objectives of the educational program

Assistance in the formation of a doctoral student's ability:

1. demonstrate systematic, in-depth and original knowledge based on the latest achievements of science and technology in the field of transport construction;
2. apply modern methods of scientific research and engineering analysis to solve complex theoretical and applied problems in the field of transport facilities;
3. develop and implement new scientific approaches, methods and technologies for the design, construction, reconstruction and operation of transport infrastructure;
4. to carry out a critical analysis of existing scientific concepts, technologies and methods, to develop original scientific solutions;
5. to present the results of their own scientific research at international conferences and in publications indexed in the Scopus and Web of Science databases;
6. Effectively interact in an interdisciplinary and international environment, contributing to the development of science and education in the field of transport facilities.

Assistance in the formation of a doctoral student's readiness:

1. plan, organize and conduct scientific research aimed at solving urgent problems of transport construction;
2. lead scientific and design teams engaged in the development of innovative technologies and engineering solutions in the field of transport facilities;
3. to carry out technical, economic and environmental assessment of innovative projects in the field of transport infrastructure;
4. develop recommendations, regulatory and technical documents and innovative methods aimed at improving the processes of design, construction and operation of transport facilities;
5. ensure the integration of scientific research with the educational process, transfer accumulated knowledge and experience to students of master's and bachelor's degrees;
6. Demonstrate commitment to the principles of academic integrity, sustainable development, and the rational use of natural and energy resources.

Field of professional activity: Engineering, manufacturing and construction industries:

Learning outcomes

P01- Demonstrate knowledge on the development and application of mathematical and computer modeling methods using artificial intelligence and their applicability to transport infrastructure tasks.

P02- To evaluate modern concepts, theories and methodologies of sustainable development of transport infrastructures, principles of integration of environmental, economic and social aspects of transport facilities for the introduction of innovative technologies and solutions aimed at increasing the sustainability of transport infrastructure.

P03- Formulate a research problem, hypothesis, and goals in writing, applying knowledge of the ethics of academic writing.

P04- Understand current trends and technologies in transport infrastructure, including digitalization, sustainable development and energy efficiency in the design, operation and modernization of transport systems.

P05- Formulate scientific problems in the selection and development of research methods, analyzing scientific literature and technologies in order to improve the efficiency of transport solutions.

P06- Evaluate applied and experimental research in interpreting the data obtained and forming scientifically sound conclusions in order to identify potential points of innovation.

Objects of Professional Activity (for Professional Doctoral Training)

Field of Professional Activity

Graduates of the educational program 8D07170 – Transport Structures carry out professional activities in the fields of science, engineering, and management related to the design, construction, operation, reconstruction, modernization, and digitalization of transport structures and infrastructure systems of railway and road transport.

Objects of Professional Activity include:

state and local executive authorities regulating the development and operation of transport infrastructure;

design, construction, research, expert and production organizations engaged in transport construction;

transport industry enterprises involved in the operation and maintenance of highways, bridges, tunnels, metro systems, aerodrome and port facilities;

higher education institutions, research institutes and innovation centers implementing scientific and infrastructure projects in the field of transport construction.

Types of Professional Activity

Research Activity — conducting fundamental and applied research aimed at developing the theory and practice of transport construction, creating innovative technologies and engineering solutions;

Design and Engineering Activity — development of design and technical documentation, modeling and optimization of transport structures using modern digital technologies (BIM, GIS, etc.);

Organizational and Managerial Activity — management of research, design and production teams, strategic planning and project management in the transport industry;

Expert and Analytical Activity — conducting technical, economic, and environmental assessments of transport infrastructure projects and preparing recommendations for their improvement;

Industrial and Technological Activity — participation in engineering and technological processes of design, construction, reconstruction and operation of transport structures, implementation of modern technologies and digital solutions in practice.

Functions of Professional Activity

development and implementation of transport infrastructure development strategies based on scientific research and innovative technologies;

analysis, modeling and forecasting of the condition of transport systems and structures;

organization and management of research, design and production processes in the transport sector;

development and implementation of new technologies for the construction, reconstruction and operation of transport structures;

scientific and technical consulting, preparation of recommendations for improving regulatory and technical documentation;

assessment of the efficiency and sustainability of transport systems considering ecological, economic, and social factors.

Positions that Graduates May Hold

head of a research or design institute;
chief engineer or technical director of a transport organization;
head (or deputy head) of a design, engineering or production department;
chief expert, design engineer, research fellow;
consultant, expert or analyst in the field of transport construction and infrastructure.

Professional Certificates

Not required.

Requirements for Prior Education

Master's degree in Transport Construction, Civil Engineering, Engineering Sciences, Transport or Logistics.

Internships and Practical Training for Doctoral Students

The doctoral program includes the following types of practical training:

industrial practice;
research (industrial) practice.

Industrial Practice

Aimed at developing professional competencies in industrial, engineering, project and technological processes, participation in real production tasks, and implementation of modern technologies in transport infrastructure enterprises.

Research (Industrial) Practice

Conducted in research institutes, design organizations and transport-sector production enterprises.

The purpose is to consolidate theoretical knowledge, obtain and analyze experimental data, and develop independent research and engineering skills aligned with the dissertation topic.

Final Attestation

Final attestation includes:

preparation and defense of a PhD dissertation containing original scientific results with academic novelty and practical significance for the transport industry;
publication of research results in journals recommended by the Committee for Quality in Science and Higher Education and in international databases (Scopus, Web of Science);
preliminary review and defense of the dissertation at the department and at the dissertation council.

Experimental Research Work of the Doctoral Student (ERWD)

ERWD is the core component of the doctoral program and is aimed at carrying out original scientific research with theoretical novelty and practical relevance.

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

№	Name of discipline	Number of credits	LO1	LO2	LO3	LO4	LO5	LO6
1	2	3	4	5	6	7	8	9
1.	Academic writing	4	+					
2.	Research methods	6						
3.	Mathematical modeling methods using artificial intelligence	5		+	+	+		
4.	Development and patenting of innovations in road construction	5						
5.	Information technologies in the construction and operation of transport facilities	5		+	+	+		
6.	Methods and technologies of experimental research in road construction	5			+			
7.	Sustainable development of transport infrastructure	5			+		+	+
8.	Academic writing	5					+	+

6. STRUCTURE OF THE BACHELOR'S DEGREE PROGRAM

№	Name of discipline cycles	Overall labor intensity	
		wakademi- cheskihchasakh	in a cademic credits
1.	Theoretical training	1350	45
1.1	Cycle of basic disciplines (DB)	450	15
1)	University component (BK):	300	10
	Academic writing	120	4
	Scientific research methods	180	6
2)	Elective component (CV)	150	5
1.2	Cycle of core disciplines (PD)	300	10
1)	University component	150	5
2)	Component of choice	150	5
7.	Research work of a doctoral student (NIRD):		
1)	Doctoral student's research work, including internships and doctoral dissertations	3690	123
3	Additional types of education (DVO)		
4	Final attestation (IA)	360	12
1)	Writing and defending a doctoral thesis	360	12
	Total	5400	180

7. CURRICULUM FOR THE ENTIRE PERIOD OF STUDY

JSC "ALT University named after Mukhamedzhan Tynyshepaev"

CURRICULUM

Form of study: full-time

Duration of training: 3 years

Admission: 2025

Training area (profile name):
8D071-Engineering and Engineering

Group of educational programs:
D210-Backbone networks and infrastructure

Name of the educational program:
8D07170-Transport facilities

Degree: doctor of industry



APPROVED
by the decision of the Academic Council
of the ALT University named after M. A. Tynyshepaev
from 04.04.2025 (12:20:25)
Chairman of the Academic Council
Prof. Dr. S. Zhaimbatzova

№	Discipline code	Name of cycles and disciplines	Total labor capacity		Control form, semester		Amount of training load, hours										Assignment to the department			
			In academic hours	In academic credits	Exam	CP (CP)	Total hours	Contact details					WED	1st course						
								lectures	practical features	laboratory data	INWT	1 sem. 15 weeks		2 sem. 7 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	16	17	18	19	20	
THEORETICAL TRAINING																				
1. CYCLE OF BASIC DISCIPLINES (DB):																				
1.1.	University component:		300	10	2		300	30	45	0	30	195	10	0	0	0	0	0	0	LE
1.1.1.	25-0-D-VK-AP	Academic writing	120	4	1		120	30			15	75	4							ps
1.1.2.	25-0-D-VK-MNI	Research methods	180	6	1		180	30	15		15	120	6							
2)	Component of your choice:		150	5	1	0	150	15	15	0	15	105	5	0	0	0	0	0	0	
1.1.3.	25-0-D-KV-RPIDS	Development and patenting of innovations in road construction	150	5	1		150	15	15		15	105	5							ACE
	25-0-D-KV-MMMIII	Mathematical modeling methods using artificial intelligence	150	5	1		150	15	15		15	105	5							
TOTAL by DB cycle:			450	15	3		450	45	60	0	45	300	15	0	0	0	0	0	0	
2. CYCLE OF PROFILE DISCIPLINES (PD):																				
2.1.	University component:		150	5	1		150	15	15	0	15	105	5	0	0	0	0	0	0	ACE
2.1.1.	25-0-D-KV-ITSETS	Information technologies in the construction and operation of transport facilities	150	5	1		150	15	15		15	105	5							
2)	Component of your choice:		150	5	1		150	15	15	0	15	105	5	0	0	0	0	0	0	
2.1.2.	25-0-D-KV-LRTI	Sustainable development of transport infrastructure	150	5	1		150	15	15		15	105	5							ACE
	25-0-D-KV-MTEIOS	Methods and technologies of experimental research in road construction	150	5	1		150	15	15		15	105	5							
TOTAL BY PD:			300	10	2	0	300	30	30	0	30	210	10	0	0	0	0	0	0	ACE
2.2.3.	25-0-D-VK-PPr	Production practice	600	20	2		600						20							
TOTAL THEORETICAL TRAINING (TO):			1350	45	6	0	1350	75	90	0	75	510	25	20	0	0	0	0	0	
2	Experimental research work of a doctoral student (AIRD):		3690	123			3690						5	10	30	30	30	30	18	
1)	25-0-D-VK-EIRD	Experimental research work of a doctoral student, including internships and doctoral dissertations	3690	123		1,2,3,4,5,6	3690						5	10	30	30	30	30	18	ACE
3	Additional types of training (DVE):		0	0			0					0								
4	Final certification (IA):		360	12			360												12	
1)	25-0-D-VK-NZDD	Writing and defending a doctoral thesis	360	12	6		360												12	ACE
TOTAL FOR THE ENTIRE TRAINING PERIOD:			5400	180	6	0	5400	75	90	0	75	510	30	30	30	30	30	30	30	

AGREED:

Acting Vice-Rector for AD  Kodzhabergenova A. K.

DEVELOPED BY:

Director of the TIS Institute  Abdreshov Sh. A.

Head of the ACE Department  Rulfmanov K. S.

8.CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

EDUCATIONAL PROGRAM 8D07170 Transport facilities

Education level: PhD

Duration: 3 year

Admission year: 2025 y.

№	Cycle	Component	Name of the discipline	Total labor intensity		Term	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements
				in academic hours	in academic loads					
1	2	3	4	5	6	7	8	9	10	11
1	BD	UC	Academic writing	120	4	1	LO1	The objectives of the discipline are: mastering the structural features and requirements for the design of academic and scientific texts. Improve the skills of abstracting and concise presentation of information, writing a bibliographic review. The ability to report scientific achievements to the general public and write scientific articles for publication in international publications.	Disciplines of the cycle of basic master's degree courses	Research practice, Research work of the doctor, Final certification
2	BD	UC	Research methods	180	6	1	LO2 LO3 LO4	Formation of a systematic understanding of theoretical and applied scientific research methods, including planning, organization and implementation of experimental research projects. Modern methods of data analysis and interpretation, information processing technologies, digital tools and approaches based on artificial intelligence, competencies for the preparation of scientific publications, presentation and protection of research results are being mastered. Special attention is paid to the principles of sustainable development, ethical aspects of scientific activity and risk management in the design and implementation of research.	Disciplines of the cycle of basic master's degree courses	Research practice, Research work of the doctor, Final certification
3	PD	UC	Information technologies in the construction and operation of transport	150	5	1	LO2 LO3 LO4	The purpose of the discipline is to develop doctoral students' system knowledge and professional skills in the application of modern information technologies in the processes of design, construction, monitoring and operation of transport facilities, including digital	Disciplines of the cycle of basic master's degree courses	Research practice, Research work of the doctor, Final

			facilities					modeling, control automation, engineering data processing and the introduction of intelligent systems in infrastructure projects.		certification
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Head of the department «Architectural and construction Engineering»



Kulmanov K.S.

9. CATALOG OF DISCIPLINES OF THE COMPONENT BY CHOICE

THE CATALOG OF DISCIPLINES OF THE COMPONENT OF CHOICE

EDUCATIONAL PROGRAM 8D07170 Transport facilities

Education level: PhD

Duration: 3 year

Admission year: 2025 y.

№	Cycle	Component	Name of the discipline	Total labor intensity		Term	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements
				in academic hours	in academic loans					
1	2	3	4	5	6	7	8	9	10	11
1	BD	EC	Development and patenting of innovations in road construction	150	5	1	LO3	The purpose of the discipline is to teach modern methods of creating and implementing innovative technologies, materials and constructive solutions in road construction with subsequent legal protection of the results of intellectual activity.	Disciplines of the cycle of master's degree courses	Research practice, Research work of the doctor, Final certification
2	BD	EC	Mathematical modeling methods using artificial intelligence			1	LO3	The purpose of the discipline is to provide doctoral students with system knowledge and practical skills in applying mathematical modeling methods using artificial intelligence (AI) technologies to solve research and engineering problems, including the construction, analysis and optimization of models of complex systems in various subject areas		
3	PD	EC	Sustainable development of	150	5	1	LO5,6	The purpose of the discipline is to provide doctoral students with a systematic understanding of the principles of sustainable development and develop competencies in analyzing, designing and	Disciplines of the cycle of master's	Research practice, Research work of the doctor, Final certification

			transport infrastructure					implementing environmentally, economically and socially sustainable solutions in transport infrastructure, taking into account current global trends, standards and challenges in the field of sustainability and climate change.	degree courses	
4	PD	EC	Methods and technologies of experimental research in road construction			1	LO5,6	The purpose of mastering the discipline: To provide doctoral students with deep theoretical knowledge and practical skills in planning, conducting and analyzing experimental research aimed at developing, evaluating and implementing new materials, structures and technologies in road construction, taking into account modern requirements for scientific validity, accuracy and reproducibility of results.	Disciplines of the cycle of master's degree courses	Research practice, Research work of the doctor, Final certification

Head of the department «Architectural and construction Engineering»



Kulmanov K.S.

10.EXPERT OPINIONS

on the educational program 8D07170 Transport facilities

The implementation of the educational program «8D07170 Transport facilities» is carried out through a sequence of subjects studied, with the establishment of specific tasks and target indicators. Interdisciplinary interaction is clearly traced, which consists in a complex relationship between the content of individual academic disciplines, through which the internal unity of the specialist training program is achieved.

The curriculum of the educational program defines a list of all academic disciplines of the mandatory component and the elective component, the complexity of each academic discipline in credits, the sequence of their study, types of training sessions and forms of control. It is important to study the environmental situation and ensure safe working conditions at the enterprises of LLP «Kazakh Promtransportproekt». Educational trajectories have been developed in accordance with the demands of the transport and communication industry.

The purpose of the educational program is relevant, formulated quite concisely and combines the learning outcomes. The description of the disciplines reflects their goals and content as an indicator of the achievement of learning outcomes in this educational program. Also, the educational program, developed on the basis of a professional standard, reflects the main labor functions in competencies and learning outcomes, indicates the types of relations with employers: conducting guest lectures, lectures by leading top managers, the presence of branches of departments based on organizations.

Thus, the educational program «8D07170 Transport facilities» submitted for examination in the field of personnel training «8D071 Engineering and Engineering affairs» fully complies with the requirements of the State Educational Standard, has a clear sequence in development, meets modern labor market requirements, professional standards and can be implemented for training personnel in the educational program «8D07170 Transport facilities» in the direction.

**Expert, Chief Engineer of
LLP «Kazakh Promtransportproject»**



Musaev M.T.

10. EXPERT OPINIONS

The curriculum of the educational program defines a list of all academic disciplines of the mandatory component and the elective component, the complexity of each academic discipline in credits, the sequence of their study, types of training sessions and forms of control. It is important to study the environmental situation and ensure safe working conditions at the enterprises of LLP «Saulat-SKB».

The purpose of the educational program is relevant, formulated quite concisely and combines the learning outcomes. The description of the disciplines reflects their goals and content as an indicator of the achievement of learning outcomes in this educational program. Also, the educational program, developed on the basis of a professional standard, reflects the main labor functions in competencies and learning outcomes, indicates the types of relations with employers: conducting guest lectures, lectures by leading top managers, the presence of branches of departments based on organizations.

**Expert,
Director of LLP «Saulet-SKB»**



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11. EXPERT CONCLUSIONS

Review

of the educational program in the field of training «8D07170 Transport facilities»

The Bachelor's degree program «8D07170 Transport facilities» contains the following information: graduate's qualifications, form and duration of study, direction and characteristics of graduate activities, a complete list of competencies that a graduate should possess as a result of mastering this educational program.

The disciplines of the curriculum according to the reviewed educational program form the entire necessary list of general cultural and professional competencies provided by the State Educational Standard for the relevant types of activities.

The curriculum of the educational program defines a list of all academic disciplines of the mandatory component and the elective component, the complexity of each academic discipline in credits, the sequence of their study, types of training sessions and forms of control. The catalog of elective subjects and the Catalog of the intra-university component fully reflect the continuity of the disciplines Underground and aboveground tracks: innovations in bridge construction and tunneling; Automation and mechanization in urban road construction; Safety and innovation in urban infrastructure; Quality control of road construction works.

The sequence of studying the disciplines has been observed, and the disciplines necessary for production and the technological process have been included.

The content of the work programs of academic disciplines and practices allows us to conclude that it corresponds to the competence of the graduate model.

The educational program provides for professional and practical training of students in the form of practice. The content of the internship programs testifies to their ability to form the practical skills of students.

Experienced teaching staff, leading representatives of the employer, and students were involved in the development of the educational program, and their requirements were taken into account when forming professional cycle disciplines.

Conclusion:

In general, the reviewed educational program meets the basic requirements of the State Educational Standard, the national qualifications framework, the industry qualifications framework, professional standards, the Atlas of New Professions and contributes to the formation of general cultural and professional competencies in the field of training «8D07170 Transport

facilities».

The reviewer

Assoc.Professor of the department of "TSiU"
KazADI named after L.Goncharov



Abiev B.A.

12. LETTERS OF RECOMMENDATION

Dear Meruert Sovetovna

The management of KazdorNII JSC, represented by Yerembayev U.M., got acquainted with the content of the educational program «8D07170 Transport facilities» and made the following recommendations:

- to include the following disciplines in the content of the educational program: roads,

- to increase the number of hours allocated for conducting part of laboratory and practical classes at employers' bases in order to form certain types of professional competencies;

- to update the content of educational programs by including in the cycle of basic and profile modules disciplines reflecting modern innovative technologies in the transport and communication sphere. It is proposed to include the following disciplines: Underground and aboveground tracks: innovations in bridge construction and tunneling; Automation and mechanization in urban road construction; Safety and innovation in urban infrastructure; Quality control of road construction works.

- increase the number of hours allocated for conducting production practices; enable disciplines:

- Underground and aboveground tracks: innovations in bridge construction and tunneling";

- Automation and mechanization in the construction of urban roads;

- Safety and innovation in urban infrastructure;

- Quality control of road construction works.

**Director of the Almaty branch
of KazdorNII JSC**



Yerembaev U.M.

13. MINUTES OF REVIEW AND APPROVAL

13. PROTOCOLS OF REVIEW AND APPROVAL

Academy of Logistics and Transport

PROTOCOL №7

Meetings

Des akademischen Ausschusses für das Bildungsprogramm und der führenden
Lehrer des Lehrstuhls "Architektonisch-Bauingenieurwesen»

city of Almaty

«18» 02 2025 year

Chairman: Kulmanov K.S.

Secretary: Begezhanova G.S.

Attended by: Head of the Department of "ASI" Ph.D., Assoc. Professor Kulmanov K.S., Candidate of Technical Sciences, associate professors: Bondar I.S., Espayeva G.A., Tursumbekova H.S., Candidate of Technical Sciences, assistant professors; Dyusengalieva T.M., Uteshbaeva A.A., Dzhaksenbaev E.K., Murzalina G.B., Dzhumagaliev T.K., senior lecturers; Zhigitbaeva B.E., Suleimenov I.T., Kalpenova Z.D., Karimova M.B.

Representatives from the production: Chief Engineer of LLP «Apple Build Project» Kurmanbekova Zh.K., Director of LLP «Saulet-SKB» Oshanov A.E., Chief Engineer of LLP «Kazakh Promtransproekt» Musaev M.T., Dezi Invest LLP Nurmukanov A.K., Assoc. Professor of TSU KazADI named after L.B. Goncharov Abiev B.A.

AGENDA:

1. Consideration of the graduate's competence model
2. Consideration of the possibility of including disciplines in QED and RUP

On the first question

MADE A SPEECH:

The head of the department, K.S. Kulmanov, proposed to consider the graduate's competence model at 3 levels of education: bachelor's degree, master's degree, doctoral degree.

The graduate's competence model includes the following parts:

- The purpose and objectives of the educational program;
- Learning outcomes;
- Area, objects, types and functions of professional activity;
- The list of positions in the educational program;
- Professional certificates obtained upon graduation;
- Requirements for the previous level of education.

PERFORMED:

Representative of employers: Musaev M.T. who proposed, due to the specifics of their organization, to reflect the following in the objects of professional activity: Modern innovative technologies in the transport and communication sphere

THE SPEAKER was:

Member of the department Tursumbekova H.S. who proposed to approve

After reviewing the graduate's competence model, it was proposed to approve this Model for 3 levels of education.

THEY DECIDED:

- provide a graduate's competence model for 3 levels of education: Bachelor's degree, Master's degree, doctoral degree for consideration and approval by the Council of the Institute of Transport and Construction.

On the second question

MADE BY: Head of the department K.S. Kulmanov with a proposal to hear representatives of employers and trainees on the inclusion of new disciplines in the CAD and RUP of admission in 2025.

MADE BY: representative of employers of «Apple Build Project» LLP, chief engineer Kurmanbekov Zh.K.

Organizations are interested in specialists with a good level of training and knowledge in the field of design and construction of highways. We are making proposals to include the following demanded disciplines in the RUP: Underground and aboveground tracks: innovations in bridge construction and tunneling; Automation and mechanization in urban road construction; Safety and innovation in urban infrastructure; Quality control of road construction works.

THEY DECIDED:

1. Take the information into consideration;
2. Take into account the suggestions and recommendations of employers and students;
3. Consider the inclusion in the RUP of the following disciplines: Underground and aboveground tracks: innovations in bridge construction and tunneling; Automation and mechanization in urban road construction; Safety and innovation in urban infrastructure; Quality control of road construction works.

Chairman:

Secretary:

A handwritten signature in blue ink, appearing to read 'Kulmanov', is written over a light blue rectangular background.

Kulmanov K.S.

Begezhanova G.S.

**MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
JSC "ALT UNIVERSITY NAMED AFTER MUKHAMEDZHAN TYNYSHPAYEV"
INSTITUTE OF TRANSPORT AND CONSTRUCTION**

**EXTRACT
from the Protocol № 8
of the extraordinary meeting of the Educational and Methodological Bureau (MDB)
of the Institute of Transport and Construction
in Almaty 17 March 2025 y.**

Chairman: Abdreshov S.A.

Secretary: Murzalina G.B.

Were present: UMB members, members of the Academic Committee, Representatives from the production: Chief Engineer of LLP «Apple Build Project» Kurmanbekova Zh.K., Director of LLP «Saulet-SKB» Oshanov A.E., Chief Engineer of LLP «Kazakh Promtransproekt» Musaev M.T., Dezi Invest LLP Nurmukanov A.K., Assoc. Professor of TSiU KazADI named after L.B. Goncharov Abiev B.A.

AGENDA:

1. Discussion of new educational programs for the 2025-26 academic year.

On the issue

WE LISTENED TO: the director of ITiS, Sh.A. Abdreshov, who proposed to consider the following sections of educational programs for admission in 2025: the graduate's competence model and educational program passports, as well as work curricula, catalogs of the university component (CVK) and catalogs of elective disciplines (CED).

PERFORMED:

1) The head of the department, K.S. Kulmanov, who presented for consideration the sections of the new educational program 8D07170 Transport facilities for admission in 2025: the graduate's competence model, the passport of the educational program, as well as the working curriculum, the catalog of the university component (CVK) and the catalog of elective disciplines (CED).

In connection with the opening of a new group of educational programs 8D071 – Engineering and engineering affairs, construction work and civil engineering, the materials submitted for consideration were developed. A meeting of the Academic Committee on Educational Programs and leading teachers of the department was held at the Department of Architectural and Construction Engineering with the involvement of representatives of employers and students to discuss the structure and content of the new educational program. Following the discussion, a positive decision was made to approve them.

The presented materials were developed with the participation of employers, students and graduates, taking into account the requirements of regulatory legal acts. The working curriculum and CED for admission in 2025 have been drawn up and agreed with employers.

THEY DECIDED:

1. To approve the presented new educational program 8D07170 Transport facilities for admission in 2025, including the Graduate's Competence Model, QED, QVC, work curriculum and educational program passport.
2. Submit these documents for consideration and approval by the Academic Council of the University.

Chairman of UDB ITiS
Secretary of UDB ITiS



Abdreshov S.A.
Murzalina G.B.

14. APPROVAL SHEET

No	Full name	Place of work/study	Post	Date of approval	Signature
	Сусеева Н.З	ИТЦ	заместитель		
	Давраев К. Н.	ИТЦ	заместитель		
	Тоигринова А. Ж	ИТЦ	заместитель		
	Ахметов Р. Т	АЛТ Университет	Head of Dept		
	Оболтаев М. О	АЛТ Университет	Head of Depart		
	Смаилов Ф. Д	АЛТ Университет	Head of LE dep.		
	Мухамедов Р. Д	АЛТ Университет	зам. зам. зам.		
	Тондова А. Р	АЛТ Университет	зам. зам. зам.		
	Кысанов К. К	ИТЦ	зам. зам.		

15. CHANGES REGISTRATION SHEET

№	Section, paragra ph of the docume nt	Type of change (replace, cancel, add)	Number and date of notification	Change made	
				Date	Surname and initials, signature, position