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Chairman of «ALT University» JSC  
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Decision of the Academic Council of  
«ALT University» JSC  
«30» 02 2024 (Protocol №3)



**THE PROGRAM  
OF THE ADMISSION EXAM TO THE DOCTORAL PROGRAM**

Group of educational programs: «D148 Logistics by industry»

Almaty 2024

**The program of the entrance exam** was discussed and received a positive decision at the meeting of the Department of Logistics and Management in Transport, Protocol No. 8 dated April 15, 2024.

**Head of the Department  
of «Logistics and Management in Transport»**  **Kenzhebayeva G.Zh.**

**The program of the entrance exam** was reviewed and recommended at the meeting of the Council of the Institute of Logistics and Management, Protocol No. 5 dated April 22, 2024.

**Chairman of the SI «Logistics and Management»** \_\_\_\_\_ **Mussayeva G.S.**

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## 1. The purpose of the entrance exam for a group of educational programs

The purpose of the entrance exam for the group of the Educational program D148 Logistics (by industry) is to determine the theoretical and practical readiness of the applicant for doctoral studies, the level of compliance of knowledge, skills and abilities with the requirements of doctoral studies in the field of training.

The doctoral entrance exam consists of writing an essay, passing a test of readiness for doctoral studies and an exam on the profile of the group of the Educational Program.

## 2. Regulations for conducting the entrance exam for doctoral studies in a group of educational programs

The duration of the entrance exam is 3 hours and 10 minutes, during which the applicant writes an essay, passes a test for readiness for doctoral studies, answers an electronic examination ticket consisting of 3 questions.

The list of questions and topics of the interview and the essay are formed in random order. The maximum score for the entrance exam is 100 points, of which: interview – 30 points, essay – 20 points, GOP profile exam – 50 points.

## 3. Types and criteria of assessment

### 3.1 Interview evaluation criteria

The interview for persons entering the doctoral program is carried out by the OVPO independently before passing the entrance exams in the blocks "Writing an essay", answers to exam questions on the profile of the group of the Educational program.

Having provided for the following rules of the interview:

- 1) Video recording of the interview is strictly mandatory for both formats, the recording is archived for at least three years
- 2) The duration of the interview is 20 minutes per student (15 minutes for a conversation and 5 minutes for an assessment)
- 3) The interview is formalized by a protocol, which is signed by the teacher, members and secretary of the examination committee
- 4) In case of non-appearance of the applicant for the interview, the postponement of the interview is not allowed and 0 points are awarded and it is not allowed to take foreign economic activity
- 5) The result of the interview is reflected in the personal account in the "admission / non-admission" format

Criteria	Descriptors	Points
Motivation	Argumentation of motives for studying for a doctoral degree in a selected OP and admission to a certain university. Vision of the prospects for professional and personal growth upon completion of training	7
Research competence	Possession of research skills and experience necessary for research activities in a specific subject area	8
Creativity	Non-standard thinking, creative and alternative approaches to solving problems, situational tasks	7



<b>Communicativeness</b>	The ability to briefly, representatively, logically, argumentatively state your point of view, make generalizations and conclusions. Language proficiency	8
<b>Maximum number of points</b>		<b>30</b>

### 3.2 Essay evaluation criteria

Types of essays	Description	The volume of the essay
<b>Motivational</b>	Argumentation of the applicant about the motivations for research activities (research statement)	At least 250
<b>Scientific and analytical</b>	justification of the relevance and methodology of the proposed research (research proposal)	
<b>Problem-themed</b>	Presentation of the author's position on topical aspects of subject knowledge	

Criteria	Descriptors	Points
<b>The depth of disclosure of the topic is 6 points</b>	the problem is revealed at the theoretical level, with the correct use of scientific terms and concepts	2
	the author presents his own point of view (position, attitude) when revealing the problem	4
<b>Argumentation, evidence base 6 points</b>	the presence of arguments from scientific literature and sources relevant to the topic of the essay	6
<b>Compositional integrity and logic of presentation 4 points</b>	the presence of compositional integrity, the structural components of the essay are logically connected	4
<b>Speech culture 4 points</b>	demonstration of a high level of academic writing (vocabulary, knowledge of scientific terminology, grammar, stylistics)	4
<b>Maximum number of points</b>		<b>20</b>

### 3.3 Критерии оценивания ответов на вопросы электронного экзаменационного билета

Blocks	The nature of the question	Number of points
<b>1st question</b>	is theoretical - determines the level and consistency of theoretical knowledge	16
<b>2nd question</b>	practical - reveals the degree of forcing of functional competencies (the ability to apply techniques, technologies and techniques in the subject area)	17
<b>3rd question</b>	reveals a systematic understanding of the studied subject area, specialized knowledge in the field of research methodology (system competencies)	17
<b>Maximum number of points</b>		<b>50</b>

Question	Критерии оценивания	Number of points
1st question	demonstrates knowledge of the main processes of the studied subject area; the depth and completeness of the disclosure of the issue	5
	logically and consistently expresses his own opinion on the problem	6
	under discussion, owns the conceptual and categorical apparatus, scientific terminology	5
<b>Total</b>		<b>16</b>
2nd question	the application of methods, techniques, technology to solve problems in the subject area	5
	argues, compares, classifies phenomena, events, processes; draws conclusions and generalizations based on practical skills	7
	analyzes information from various sources	5
<b>Total</b>		<b>17</b>
3rd question	critically analyzes and evaluates theoretical and practical developments, scientific concepts and current trends in the development of science	7
	synthesizes methodological approaches in the interpretation of the main problems of subject knowledge	5
	identifies cause-and-effect relationships in the analysis of processes, phenomena, events	5
<b>Total</b>		<b>17</b>
<b>Maximum number of points</b>		<b>50</b>

#### 4. The content of the examination materials

Examination materials for the entrance exams to the doctoral program in the group of the Educational program D148 Logistics (by industry), including the topics of the interview, essays, examination questions on the profile are made in three languages: Kazakh, Russian and English.

##### 4.1 The content of the interview topic

1. The main directions of the chosen research activity
2. What research methods should be used in the framework of future research
3. What logistical problems would you use to solve advances in digital and artificial intelligence
4. Reveal the specifics of the development of transport logistics in Kazakhstan
5. Justify the choice of the chosen topic and the object of your future research. How relevant is conducting research in this area
6. To reveal the features and importance of the work of a logistician in transport and logistics companies and other production organizations
7. The use of artificial intelligence technologies in logistics
8. Artificial intelligence in warehouse logistics: the future or the present
9. Logistics outsourcing. The choice of the insourcing option is logistics outsourcing.
10. Transport and warehouse documentation in the company. The scheme of export and import document flow
11. Is it possible to build a chain of basic processes of this type: Supply of components – Production - Sale - IT-provision - Delivery



12. Business process reengineering: definition, tasks, main aspects
13. Stages of business process modeling and analysis in business process reengineering projects
14. Tools and technologies for automating modeling, analysis and redesign of business processes (CASE technologies)
15. Construction and analysis of the "AS IS" and "TO BE" models
16. Which goods are recommended for mandatory packaging
17. How to ship cargo by a transport company - stages of cargo transportation
18. Criteria and methods for evaluating the effectiveness of transport logistics
19. Features of cargo insurance: what is insurance, types and principles, information for the purchase of insurance, what affects the cost of insurance, features of determining the amount
20. The difference between cargo insurance and freight forwarder/carrier liability insurance

#### 4.2 The content of the Essay topic

№	Эссе тақырыбы (қазақ тілінде)	Эссе тақырыбы (орыс тілінде)	Эссе тақырыбы (ағылшын тілінде)
1	2	3	4
1.	Бүгінгі логистика: қиындықтар мен шешімдер	Логистика сегодня: вызовы и решения	Today's logistics: challenges and solutions
2.	Автомобиль көлігі саласындағы логистикадағы цифрлық трансформация	Цифровая трансформация в логистике в сфере транспортных автоперевозок	Digital transformation in logistics in the field of road transport
3.	Логистикалық платформаны құру үшін қажетті жүйелер	Системы необходимые для создания логистической платформы	Systems necessary to create a logistics platform
4.	Канбан әдісінің кемшіліктері	Недостатки метода Канбан	Kanban is a flawed method
5.	Логистика және көлік саласында цифрлық егіздерді енгізу негізінде цифрлық бизнесті дамыту	Развитие цифрового бизнеса на основе внедрения цифровых двойников в сфере логистики и транспорта	Development of digital business based on the introduction of digital twins in the field of logistics and transport
6.	Жасыл логистиканың даму перспективалары	Зеленая логистика и перспективы ее развития	Development prospects of green logistics
7.	Кәсіпорынның логистикалық қызметінде «Жасыл технологияларды» қолдану	Применений «Зеленых технологий» в логистической деятельности предприятия	Application of "Green technologies" in the logistics service of the enterprise
8.	Көлік логистикасындағы заманауи ақпараттық жүйелер	Современные информационные системы в транспортной логистике	Modern information systems in transport logistics
9.	Автоматтандырылған көлік және қойма кешендері мен жүйелері	Автоматизированные транспортно-складские комплексы и системы	Automated transport and warehouse complexes and systems



1	2	3	4
10.	Логистиканы басқарудағы контейнерлер мен қаптамалардың рөлі. Қаптаманы жобалау процесіне әсер ететін факторлар	Роль тары и упаковки в логистическом менеджменте. Факторы, воздействующие на процесс проектирования упаковки	The role of containers and packaging in logistics management. Factors affecting the packaging design process
11	Логистикалық ақпарат көлік ағынының стратегиялық ресурсы ретінде	Логистическая информация как стратегический ресурс транспортного потока	Logistics information as a strategic resource for traffic flow
12	Тауарларды жылжыту уақытына байланысты жеткізудің логистикалық схемасын таңдау	Выбор логистической схемы доставки товаров в зависимости от времени их продвижения	Choosing a logistics scheme of delivery depending on the time of movement of goods
13	Логисттің жеке және жалдамалы қойма арасындағы таңдауы	Выбор логиста между собственным и наёмным складом	Logistician's choice between own and hired warehouse
14	Микро, мезо және макро деңгейде логистикалық тәуекелдерді талдау	Анализ логистических рисков на микро-, мезо- и макроуровнях	Analysis of logistics risks at the micro, meso and macro levels
15	Логистикалық провайдерлердің классификациясы (2PL, 3PL, 4PL провайдерлері)	Классификация логистических провайдеров (2PL, 3PL, 4PL провайдеры)	Classification of logistics providers (2PL, 3PL, 4PL providers)
16	Жүктерді жеткізудің тиімді логистикалық схемасын зерттеу және таңдау	Исследования и выбор эффективной логистической схемы доставки груза	Research and selection of an effective logistics scheme for cargo delivery
17	Жаһандық экспорттық логистикадағы Каспий аймағының рөлі	Роль Каспийского региона в мировой экспортной логистике	the role of the Caspian region in global export logistics
18	Көлік инфрақұрылымының дамуына қандай шикізат көп әсер етеді	Какие сырьевые грузы оказывают наибольшее влияние на развитие транспортной инфраструктуры	What raw materials have the most influence on the development of transport infrastructure
19	Қазақстанның көлік инфрақұрылымы: қазіргі жағдайы және даму перспективалары	Транспортная инфраструктура Казахстана: текущее состояние и перспективы развития	Transport infrastructure of Kazakhstan: current situation and development prospects
20	Қазақстан Республикасының көліктік-логистикалық нарығының ағымдағы жағдайын контейнерлеу тұрғысынан бағалау	Оценка текущего состояния транспортно-логистического рынка РК в разрезе контейнеризации	Assessment of the current situation of the transport and logistics market of the Republic of Kazakhstan from the point of view of containerization



### 4.3 The content of the sections on the blocks submitted for the entrance exam

The topics of the examination questions correspond to selected sections from the study programs of the cycles provided for in the group of the Educational program “D148-Logistics (by industry)”:

№	Name of disciplines
1	Logistics analysis of the activities of transport enterprises
2	Transport and logistics services market research
3	International transport corridors and logistics centers
4	Logistics risk management in supply chains
5	Strategic management and innovation in supply chains

### 5. Recommended literature

#### 5.1 Basic literature

1. Б.А. Аникин Логистика: учебное пособие / Под ред. Б.А. Аникина, Т.А.Родкиной. - М.: Проспект, 2020. - 408 с.
2. Гайдаенко А.А. Логистика: учебник / А.А. Гайдаенко, О.В. Гайдаенко. - 3-е изд., стереотип. - М.: КНОРУС, 2016. - 268с.
3. Логистика: тренинг и практикум: учебное пособие / Под ред. Б.А. Аникина, Т.А. Родкиной. - М.: Проспект, 2016. – 448 с.
4. Афоничев Р.Ю. Информационные технологии в логистике: учебное пособие / Р.Ю. Афоничев, Н.А. Тихонова, В.Г. Шахов. - М.: ФГБУ ДПО "Учебно-методический центр по образованию на железнодорожном транспорте", 2018. - 196 с.
5. Сыртанов С.А. Транспортные системы и процессы. Человеческие ресурсы и конкурентоспособность предприятия транспорта: учебное пособие / С.А. Сыртанов. - Алматы, 2016. - 94 с.
6. Иванов Г.Г. Складская логистика: учебник для вузов / Г.Г. Иванов, Н.С. Киреева. - М.: ФОРУМ: ИНФРА-М, 2016. - 192с.
7. Герами В.Д. Управление транспортными системами. Транспортное обеспечение логистики: Учебник и практикум / В.Д. Герами, А.В. Колик.- М.: Изд-во Юрайт, 2016. – 438 с.
8. А.С. Балалаев. Терминально - логистические комплексы: учебное пособие / А.С. Балалаев, Р.Г. Король. - М.: ФГБУ ДПО "Учебно методический центр по образованию на железнодорожном транспорте", 2018. - 156 с.
9. Л.Б. Миротин и др. Логистика транспорта в цепи поставок: учебное пособие. - М.: ФГБУ ДПО "Учебно методический центр по образованию на железнодорожном транспорте". - 2018. - 144 с.
10. Балалаев А.С. Технология работы операторских и экспедиторских компаний: учебное пособие / А.С. Балалаев, Е.И. Гарлицкий. - М.: ФГБУ ДПО "Учебно методический центр по образованию на железнодорожном транспорте", 2018. - 134 с.
11. Мусалиева, Р.Д. Взаимодействие видов транспорта: учебное пособие / Р.Д. Мусалиева. - Алматы: КазАТК, 2017. - 204 с.
12. Инновационные процессы логистического менеджмента в интеллектуальных транспортных системах / Под общ. ред. Б.А. Левина, Л.Б. Миротина. - М.: ФГБОУ "Учебно-методический центр по образованию на железнодорожном транспорте", 2015. - 374 с.

## 5.2 Additional literature

1. Неруш Ю.М. Логистика: теория и практика проектирования: Учебник и практикум. / Ю.М. Неруш, С.А. Панов, А.Ю. Неруш. - М.: Юрайт, 2019. - 422 с.
2. Степанов В.И. Логистика: учебник / В.И. Степанов. - М.: Проспект, 2016. - 488 с.
3. А.М. Гаджинский Логистика. М.: Издательско-торговая корпорация «Дашков и К» - 2016. -308 с.
4. Милославская С.В. Транспортные системы и технологии перевозок: учебное пособие / С.В. Милославская, Ю.А. Почаев. - М.: ИНФРА-М, 2017. - 116 с.
5. Троицкая Н.А. Транспортно-технологические схемы перевозок отдельных видов грузов: учебное пособие / Н.А. Троицкая, М.В. Шилимов. - М.: КНОРУС, 2016. - 232 с.