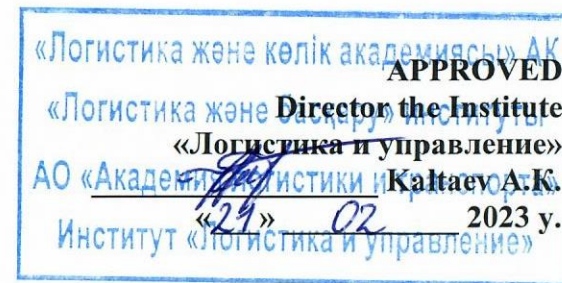
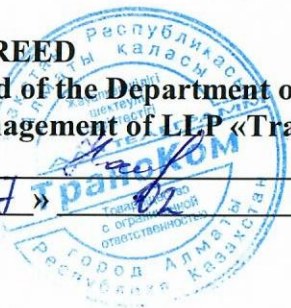


AGREED
Head of the Department of Dispatching Transportation
Management of LLP «TransCom»

« 17 » 02 / 2023 y.
Kosybaev K.K.



CATALOG OF DISCIPLINES OF THE COMPONENT BY CHOICE

EDUCATIONAL PROGRAM

7M11351 - Organization of transportation, traffic and operation of transport

Level of training: master's degree profile

Period of study: 1,5 years

Year of admission: 2023 y.

Module	Cycle	Component	Name of the discipline	Total labor intensity		Semester	Learning outcome	Brief description of the discipline	Prerequisites	Post-requisites	Department
				in academic hours	in academic credits						
1	2	3	4	5	6	7	8	9	10	11	12
Module 3 - Profiling competencies BD	BD	EC1	Lean manufacturing	270	9	2	LO2	Studies the basics of organization management based on the principles of lean production: minimizing all types of losses in the course of activity, achieving the maximum possible result in the shortest possible period of time, rational use of all types of resources, improving aspects of the organization's activities, involving employees in technological processes; formation of lean thinking among future managers, correlated with the ideas of concepts relevant to the modern world sustainable development and conscious consumption.	Transportation quality management, Transport flow management systems	Production practice, ERWM, FC	RS

	BD	EC1	SMART technologies in transport	270	9	2	LO5	The intellectual technologies used in railway transport are considered and studied. The basic concepts of the current state and prospects for the development of railway transport infrastructure based on SMART technologies are described. Familiarization of students and the formation of skills for assessing the improvement of operational safety of railway infrastructure facilities, taking into account the development of computer technologies, software and artificial intelligence.	Transportation quality management, Information support of cargo transportation	Production practice, ERWM, FC	RS
3Module 3 - Profiling competencies	PD	EC2	Transport flow management systems	270	9	1	LO4	Formulate theoretical foundations for establishing optimal routes for car traffic and rational distribution of work between railway transport facilities. To ensure the acceleration of cargo delivery, reduction of the cost of processing wagons with the correct organization of the work of railway lines, increase the productivity of rolling stock, rational use of the capacity of lines and railway stations, shunting facilities, sorting devices and track development of stations.	Basic bachelor's degree disciplines	Lean manufacturing, Transport security, Operational development methodology	OTaOT
	PD	EC2	Information support of cargo transportation	270	9	1	LO5	To study business processes in the management of operational work, their interaction and the tools used in the creation and operation of Information Technologies, the system of automated maintenance of the executed movement schedule, the functional composition of tasks and automated workplaces of dispatching personnel.	Basic bachelor's degree disciplines	SMART technologies in transport, Modern problems of transportation organization, Global container transport systems	OTaOT

Module 3 - Profiling competencies	PD	EC3	Contractual commercial work	180	6	2	LO7	To evaluate the effectiveness of managerial decision-making in the field of freight and commercial work, the level of customer service of the railway, the provision of mutual preliminary information of participants in transportation about railway cargo. To arrange cargo transportation at departure and destination stations in accelerated and simplified procedures in national and international communications. Coordinate the activities of the railway with other participants in the transportation process.	Transportation quality management, Modern problems of transportation organization	Production practice, ERWM, FC	OTaOT
	PD	EC3	Global container transport systems	180	6	2	LO7	To explore the world container transport system, technical and loading and unloading facilities, the interaction of rail and road transport, the organization of container transportation, the place and role of the container transport system in a single transport system. Analyze the effectiveness of the creation and functioning of a container transport system, the relationship of container and package transportation, the impact of containerization on the organization of the transportation process.	Information support of cargo transportation, Innovations in transport systems	Production practice, ERWM, FC	OTaOT
Module 3 - Profiling competencies	PD	EC4	Modeling the operation of transport hubs	180	6	1	LO6	The study of the functioning of transport hubs, the flow of transport processes in the implementation of freight and passenger transportation, as well as methods for optimizing transport systems and processes, studying the nature of the flow of transport processes in various transport hubs, solving problems of planning, forecasting, transport hubs, organizing operational, calendar management of complex transport systems, getting an idea of mathematical modeling and interpretation received solutions. Within the framework of the discipline, students perform group tasks, work in small groups.	Basic bachelor's degree disciplines	Transport security, Operational development methodology	OTaOT
	PD	EC4	Innovations in transport systems	180	6	1	LO5	To study the issues related to innovations in the management of operational work, their interaction and the means used in the creation and operation of information technologies, the system of automated maintenance of the schedule of executed traffic, the functional composition of tasks and automated workstations of dispatching personnel, automated control system of the station, support in the centers of branded transport services.	Basic bachelor's degree disciplines	Modern problems of transportation organization, Global container transport systems	OTaOT

Module 3 - Profiling competencies	PD	EC5	Transport security	180	6	2	LO8	To investigate the theoretical, conceptual, methodological and organizational foundations of transport security, classification and characteristics of the constituent elements of transport security and anti-terrorist activities, analyzes the state of transport security and security measures in the management and operation of transport systems.	Transport flow management systems, Modeling the operation of transport hubs	Production practice, ERWM, FC	OTaOT
	PD	EC5	Modern problems of transportation organization	180	6	2	LO4	To present organizational and managerial problems and tasks of restructuring and integration of disconnected transport systems in a single transport complex in the current conditions and for the future using positive international experience. To formulate a systematic view of the current state and prospects of transport development in the changing conditions of the transport market and taking into account the impact of external risks.	Contractual commercial work, Information support of cargo transportation, Innovations in transport systems	Production practice, ERWM, FC	OTaOT

Acting Head of the Department
 "Organization of transportation and operation of Transport"

Abibullaev S.Sh.