

Passport of the educational program

Code and classification of the field of education	6B11 Services
Code and classification of the direction of training	6B113 Transportation services
Number and name of the educational program group	6B11329 Organization of transportation, traffic and operation of transport
The purpose of the program	Training of competitive specialists in the field of organization of transportation, movement and operation of transport who are able to organize the transportation process of passengers, organize maintenance, organize highly efficient production of loading and unloading operations and warehouse operations based on the use of modern systems of machines, equipment, instruments, computer technology.
Distinctive features of the educational program	<ol style="list-style-type: none"> 1. Close partnership relations have been established with the leading companies of Kazakhstan JSC NC "Kazakhstan Temir Zholy", Semey International Bus Station 2. Partner companies provide passage of all types of practices 3. Practical classes and the management of these are carried out by practical teachers who have extensive experience in production
Availability of accreditation	No
Learning outcomes	<p>To select suitable mathematical methods and algorithms for solving the problem; to apply numerical methods using modern computer technology to solve the problem; to conduct qualitative mathematical research</p> <p>Demonstrate knowledge and skills of using fundamental physical laws and theories, as well as methods of physical research; apply the basic laws and ratios of DC, AC and three-phase electric circuits for their analysis and calculation, read electrical circuits and understand the purpose of the main nodes of electric blowing; evaluate measurement errors and carry out verification of electrical measuring devices, choose a semiconductor device and an integrated circuit to work in electronic circuits, using reference literature</p> <p>Perform drawings of geometric constructions, projection drawings, axonometric projections, analyze and synthesize spatial forms; read and express technical thoughts with the help of a drawing; develop technological processes of projected and reconstructed transport devices and structures; develop and make longitudinal and transverse profiles of roads; develop and draw up diagrams of railway and transport junctions; develop and draw up diagrams of intersections of highways; perform technical and economic calculations</p> <p>Demonstrate knowledge of the documentation requirements adopted in professional communication; understanding of oral speech within professional topics; select the necessary information from foreign language sources.</p> <p>Choose types of transport, types of rolling stock, loading and unloading machines and devices, packaging means, modes of transportation and storage, registration of transportation documents and unsaved transportation; perform technical and economic calculations on measures that ensure the efficiency of transport; perform a system</p>

analysis of specific transport systems with access to mathematical models in order to obtain qualitative and quantitative characteristics; make a transport and technological scheme for the delivery of various goods. choose the rolling stock in accordance with its operational qualities. perform an analysis of the functioning of cars and lower-level systems. fill out applications and orders, waybills, and schedule drivers' work

choose technical means that ensure the interaction of modes of transport; determine the structure and capacity of transport nodes. have the skills to identify technological links between elements of the transportation process; coordination of temporary modes of operation of modes of transport; organization of multimodal transportation; coordination of modes of transport in passenger transportation; organization of interaction of modes of transport in non-transshipment transportation

Choose analogues and prototypes of structures during design; perform engineering calculations and design simple standard mechanical devices, ensuring their operability; make kinematic schemes of mechanisms and machines; design rational schemes of mechanisms; perform kinematic studies by graphical and analytical methods for various mechanisms (gear, planetary, lever, etc.); make dynamic models of machines and mechanisms

To use topogeodetic material, in particular, to read a topographic map, solving on its basis the corresponding tasks of both graphic and mathematical calculation nature; to set specific tasks related to the creation of a construction object before the relevant geodetic and surveying services, to direct these works with an indication of the requirements imposed on them based on construction tolerances; to make geodetic measurements related to the solution of typical construction tasks – detailed breakdown of structures, control of geometric shapes of the constructed structure, executive surveys of the results of individual stages of construction and installation work

Apply the principles of forming a unified transport system; ensure clear interaction in the work of a unified transport system; improve operational management of transportation; make operational decisions on passenger transportation services taking into account the effective use of rolling stock; perform calculations for the analysis and forecasting of passenger flows; develop train schedules, schedules of passenger, passenger technical stations and stations; calculate a plan for the formation of passenger trains; conduct a road survey, evaluate traffic flow and traffic safety modes, develop measures to improve the transport and operational qualities of roads and traffic safety; prepare applications for transportation accounting and accounting documents, choose cargo transportation conditions, determine the terms of loading, unloading and delivery of goods

To draw up various types of business contracts; to solve problems and incidents compiled on the basis of generalization of law enforcement and judicial practice of resolving economic disputes; to develop and evaluate measures to improve the quality of production; to analyze the main economic indicators; to calculate the cost of transportation and loading and unloading operations; to apply planning methods; to apply the principles of scientific labor organization.

	<p>To develop technological schemes of material flows; to manage the basic functions of the logistics information system in logistics; to calculate the optimal structure of warehouse equipment; to solve the problems of choosing a material delivery system; to find opportunities to improve the efficiency of transportation based on the logistics concept; to apply logistics principles of transportation management; to plan services and turnover of the service center at the station and at the station; to draw up schemes of intermodal transport systems in passenger traffic; to search for ways to improve the quality of transport and logistics services for cargo owners; to implement measures to ensure the safety of train traffic, the safety of transported goods and environmental protection during the transportation of various goods, especially when transporting dangerous, heavy and bulk cargo.</p> <p>assess traffic safety on roads; identify and study emergency road sections; analyze traffic accident statistics; develop comprehensive engineering measures to improve conditions and ensure traffic safety in various road conditions; identify the main faults of the switch; collect data on geometric road elements affecting traffic modes and safety; examine and evaluate the evenness and coupling qualities of road surfaces; assess road safety; identify and study emergency road sections; work with the texts of regulatory legal acts; conduct a road survey; evaluate traffic flow and traffic safety modes</p> <p>To work at automated workplaces (APMs) of the main mass professions (input and output of information, interactive mode of operation on personal computers); to develop algorithms for new tasks of subsystems related to cargo and passenger transportation management; to develop unified forms of input and output documents, arrays of normative reference information for tasks prepared for inclusion in automated control systems on railway transport; to prepare initial data on control objects for input into the computer network; to work with technical means, operating systems and application programs as the basis of technical and software support of automated information systems;</p> <p>Create advanced technology for the design and reconstruction of railway stations and junctions; perform technical and economic calculations on measures to ensure the efficiency of railway transport; conduct professionally informed consultations on the optimal choice of transport and technological schemes for cargo delivery, taking into account the wishes and requirements of shippers and consignees; to draw up accompanying documents at all stages of the implementation of various transport and technological schemes of cargo delivery, including acceptance and delivery operations, warehousing, batch unbundling and customs clearance of cargo; to apply the principles of terminal systems construction in an international transport expedition; to work with transport documentation; to organize the operation of international cargo delivery in accordance with the logistics concept of international cargo delivery;</p> <p>systematize, summarize legal and economic information for use in professional, including entrepreneurial activities. Analyze, summarize economic information and systematize safety standards for use in professional activities</p>
Awarded Degree	Bachelor in the field of services in the specialty 6B11329- Organization of transportation, traffic and operation of transport

List of qualifications and positions	Head of the Department of Organization and Conditions of Transportation; Leading engineer for cargo and commercial work Engineer for the organization of cargo transportation Bus station and bus station manager Head of the Traffic Safety Department Manager responsible for traffic safety Dispatcher of road and rail transport
Professional area	Transport enterprises and divisions; Regional transport management bodies and the state transport inspectorate; Transport and forwarding enterprises and organizations.