

GRADUATE MODEL

	6B07104 – «Transport, transport equipment and technologies»	7M07104 - «Transport, transport equipment and technologies»
Should be able to:	- apply systems concepts to understand and identify problems; - use program-target methods in analyzing technical, technological, organizational, economic, and social issues; - apply advanced sectoral, cross-sectoral, and international experience; - determine the specific conditions of design, manufacturing, operation, and working modes of transport equipment; - use analysis data on wear mechanisms, corrosion, and structural strength loss; - apply transport legislation and technical standards, including traffic safety, labor conditions, and environmental protection; - rely on socio-psychological principles of team management.	- analyze transport production processes using program-target methods across technical, technological, managerial, economic, ecological, and social aspects; - apply current transport-related laws, rules, and regulations; - utilize advanced domestic and international experience; - organize and perform basic industrial processes within professional activities; - decompose system (enterprise, organization, workshop, etc.) goals and select effective methods for achieving them; - use computer hardware and information technology (systems).

Should know and understand:	- the organizational structure of mechanical engineering and repair industries; - the fundamentals of comparison and evaluation of transport equipment; - program-target methods and their application methodology in the analysis and improvement of production; - the design and structure of transport equipment; - the basics of legislation and the regulatory framework of the industry; - the main principles of market economy; - methods of engineering calculations and approaches to making engineering and managerial decisions; - fundamentals of certification and licensing of enterprises and service personnel; - materials used in the design of transport equipment and their properties; - properties and features of using alternative types of fuel; - design features of transport equipment operating on alternative fuels; - the current state and trends of applying scientific achievements in professional activities; - methods of working and communicating with personnel, as well as staff selection and placement techniques; - foreign experience in the chosen field of activity.	- the main objects, phenomena, and processes related to the organization of transportation, traffic management, and transport operation; - the main technical and economic requirements for rolling stock and lifting, loading, and unloading equipment; - transport-operational characteristics of transport routes and the principles of urban transport planning; - the fundamentals of legislation and the regulatory framework of the industry; - the main principles of the market economy; - rules for maintaining and completing reporting and accounting documentation; - methods of modeling and designing vehicle movement and cargo delivery systems; - fundamentals of certification and licensing; - preparation and application of advanced scientific and technical achievements in professional activities; - program-target methods and methodology for their use in the analysis and improvement of transport production.
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Should be competent in:	- applying research methods and instruments; - using main regulatory documents related to the operation of transport equipment and machinery; - adhering to metrological rules and standards; - possessing methods of technical inspection and control under actual production conditions; - using effective methods for searching and applying scientific and technical information; - organizing safe working conditions and managing emergency response; - operating hardware and software-hardware complexes of information systems.	- organizing uni-, multi-, and intermodal transportation; - organizing road traffic; - operating transport systems; - the field of interaction between different types of transport; - the field of labor legislation.
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