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Requirements for a Railway Operation Specialist on Traffic Safety Issues

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Abstract: The tasks and necessary source materials for conducting practical classes on the discipline "Rules of technical operation and traffic safety on railway transport" are given. Production situations are described, reflecting the essence and consequences of traffic safety violations. The necessary normative reference and other auxiliary materials are provided for their use in the performance of tasks.

Keywords: Railways, highly efficient, trouble-free, technical operation.

The railways have all the prerequisites for highly productive and trouble-free train and shunting work. This is determined by the basic provisions and operating procedures of railways and railway transport workers developed on the basis of many years of operational experience of railway transport units, the standards for the maintenance of the most important structures, devices and railway rolling stock, a well-developed system for organizing train traffic and shunting work. All these provisions are set out in the Rules of Technical Operation of Railways, as well as in instructions and guidelines for all levels of management of railway transport, issued as an appendix to the Rules of Technical Operation.

The safe operation of railway transport can be ensured and is ensured in cases when all the requirements of the Rules of Technical Operation and Instructions are strictly observed by each employee at all stages of the operation of railway transport, starting from the design, construction and construction of railway devices and railway rolling stock, and then, during the entire period of their operation in all links transportation process.

Analysis of the work of the railway network shows that the vast majority of employees and entire teams of railway transport work without incident, ensuring high labor productivity and complete safety of train traffic and shunting work.

However, there are still frequent cases of violations of traffic safety conditions, leading to gatherings, collisions of railway rolling stock, sometimes with serious consequences and even with human casualties.

Most often this happens due to non-compliance with the Rules of technical operation for reasons of poor knowledge, indiscipline and negligence of individual employees, insufficient control and demanding managers.

A significant impact on ensuring the safety of train traffic is provided by the reliability of technical means of railways, their proper maintenance, compliance with deadlines and repair technology. The purpose of this textbook is to assist students of the specialty "Operation of railways" in studying the basic provisions of ensuring the safety of train traffic on the basis of a systematic presentation of the most important documents aimed at ensuring the safety of train traffic, as well as the conditions of trouble-free operation of railways provided for by the Rules of Technical operation, instructions, orders and other documents on traffic safety.

This manual includes materials and documents, the content mainly corresponding to the list of issues aimed at specialists in traffic management and work in the field of freight transportation by rail. In addition to this publication, which provides mainly theoretical and informational presentation of the material, the textbook "Traffic Safety on Railways", part 2, is used, intended for use in practical calculations and performing individual tasks on the issues studied.

In this tutorial, the tasks and the necessary source materials for conducting practical classes on the discipline "Rules of technical operation and traffic safety on railway transport" are given. Production situations are described, reflecting the essence and consequences of traffic safety violations. The necessary normative reference and other auxiliary materials are provided for their use in the performance of tasks.

Taking into account the fact that specialists in the organization of transportation and management in railway transport, by virtue of their functional purpose, play a leading role in the organization of the transportation process, the main purpose of the discipline is to equip students with knowledge of the principles, conditions and methods of ensuring train safety, instilling skills of an integrated approach to solving this problem, as well as educating them feelings of special responsibility for ensuring trouble-free operation of railways.

Due to the fact that in the process of transportation, its safety is influenced by the state of railway equipment and the actions of employees of other farms (locomotive, wagon, track, STB, telecommunications, etc.), specialists in train traffic management and shunting work in their professional activities feel failures and difficulties arising through no fault of their own, negatively affecting their decisions and the overall level of train safety. Therefore, in order to more fully ensure the safety of train traffic and shunting work, students of the specialty "Operation of railways" get acquainted with the causes of violations and conditions for ensuring traffic safety in other farms of a complex railway conveyor.

In connection with the above, having studied the discipline "Rules of technical operation and traffic safety on railway transport", students should understand the basic provisions of the theory of traffic safety, terms and definitions related to trouble-free operation, the classification procedure for permissible traffic safety violations in train and shunting work and the current level of its provision, the causes of safety violations traffic in various railway transport facilities, in the requirements and norms of the Rules of technical operation, instructions and other documents on the design, maintenance and operation of railway equipment, as well as technological processes, in the principles and conditions that ensure trouble-free operation of railways in all production processes in the specialty.

They should use the requirements and standards for ensuring traffic safety in production work, as well as when developing projects for new and reconstructed railway transport facilities and technological processes of railway divisions, predict possible traffic safety violations by certain signs and anticipate their consequences if certain existing rules and regulations are not complied with, find ways to ensure trouble-free continuation in a timely manner work or its suspension, taking into account the current situation, to analyze and assess the level and state of traffic safety in train and shunting work, to plan and implement preventive measures that contribute to increasing the level of trouble-free operation.

Have an idea of the procedure for internal investigation and the organization of recovery work in cases of crashes, accidents and other violations of traffic safety in train and shunting work, the role and functions of traffic safety control and management units, the work of public inspectors to ensure trouble-free operation.

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