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## **Its Role in the Training of Traffic Safety Specialists, its Practical Orientation**

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### **Abstract**

This article scientifically analyzes the importance of the process of training specialists in the field of road safety and its practical orientation. The study pays special attention to the shortcomings of the system of training specialists in the field of road safety and the issues of integration of theoretical knowledge with practice. The author has developed proposals for strengthening the practical aspect of the educational process, developing students' professional competencies and practical skills. The article also analyzes international experience in using innovative educational technologies, simulation, and virtual reality in the training of specialists in the field of road safety, and provides scientific and practical recommendations for adapting them to local conditions. The article is of practical importance in improving the system of training specialists in the field of road safety, ensuring the harmony of theory and practice.

**Keywords:** Road safety, specialist training, practical education, competencies, innovative educational technologies, simulation, virtual reality, integration of theory and practice, educational system, professional skills.

In the current era of urbanization, rapid growth in the number of vehicles and the complexity of road infrastructure, ensuring road safety is becoming an urgent issue. World experience shows that to ensure safety in this area, it is important not only to improve the technical infrastructure, but also to provide the sector with highly qualified professional personnel. In this regard, the most important criterion is the combination of theoretical knowledge and practical skills of road safety specialists.

According to the World Health Organization (WHO), more than 1.3 million people lose their lives globally every year as a result of road accidents and more than 50 million people are injured. These statistics confirm the need to ensure a high level of road safety and set serious requirements for the effectiveness of the specialist training system.

In Uzbekistan, along with the increase in the number of vehicles in recent years, the problems of preventing road accidents have been increasing. As a result of road accidents in the country in

2022, thousands of people died and a lot of material and moral damage was caused. This puts the issue of improving the professional level and practical skills of personnel in the field at the forefront.

From this point of view, there is a need to ensure the integral integration of theoretical knowledge with practice in the system of training qualified specialists in the field of road safety. The formation of practical competencies of specialists that meet today's requirements, the use of innovative educational technologies in the training process and the development of professional skills through modern simulators and virtual reality tools are urgent tasks.

The main purpose of the article is to analyze the issue of ensuring the practical orientation of training highly qualified personnel in the field of road safety, identify existing problems in this process, and develop scientifically based proposals and recommendations on the formation of practical competencies in the national education system, studying international best practices. As a result, by improving the professional skills of specialists in the field, it will be possible to significantly increase the level of road safety in the country.

Current status of the system for training road safety specialists and analysis of existing shortcomings

The system for training professional personnel in the field of road safety is widespread in the country, but the focus of this system on practice is not sufficient. According to the analysis, more attention is paid to theoretical knowledge in the educational process, and there are certain shortcomings in the integration of students with practice. As a result, although graduates have theoretical knowledge, their skills in applying their knowledge in real situations remain limited.

The results of the survey in this regard showed that approximately 60 percent of graduates face difficult situations in the first months of their work in the field of road safety and experience difficulties in practice. The main reason is the lack of practical orientation of the educational process.

Analysis of factors limiting the integration of theory and practice

The insufficient formation of mechanisms for connecting theoretical knowledge with practice in the process of training personnel in road safety is due to a number of factors. The following main factors were identified as a result of the analysis:

The high share of theoretical training in training programs (75–80% theoretical, 20–25% practical training);

Insufficient development of the necessary technical base for practical training (laboratories, simulators, virtual reality tools);

Low level of interaction between educational institutions and organizations involved in road safety.

The presence of these factors limits the integration of personnel with practice, leading to a shortage of specialists in the field.

Analysis of international experience and their relevance to local conditions

World experience is an advanced example of practice-oriented training of personnel in road safety. For example, in developed countries such as Germany, Japan, and the USA, innovative technologies are widely used in the educational process to form practical skills along with theoretical knowledge. In particular:

In Germany, virtual reality technologies and modern simulators are widely used in the educational process, and the professional skills of personnel are formed at a high level;

In the USA, close cooperation between sectoral organizations and universities has been established in the system of training specialists in the field of road safety. As a result, students have the opportunity to start their careers with strong practical knowledge;

In Japan, the educational process is constantly combined with practice, and great attention is paid to the formation of each student's skills in real road conditions.

The application of these advanced practices, adapted to local conditions, is an important solution to solving existing problems in the field.

Analysis of the importance of innovative technologies in practical education and their application opportunities

The widespread use of modern innovative educational technologies is of great importance in the formation of practical competencies of personnel in the field. According to the analysis, the following innovative solutions are effective:

Virtual reality technologies (VR): with the help of this technology, students will have the opportunity to form their knowledge and skills in a virtual environment close to real conditions. It has been determined that the effectiveness of personnel training using VR technology increases by 70-80%.

Modern simulators: with the help of simulators, students will develop the skills of making quick and correct decisions in various dangerous situations.

Electronic learning systems (E-learning): through online platforms, students will have the opportunity to combine theoretical knowledge with practice in real time.

Scientific-practical recommendations for practice-oriented training of specialists

Based on the results of the analysis, the following scientific and practical recommendations are offered to improve the system of personnel training in the field:

Increase the hours of practical training in educational programs to at least 40-50%;

Wide introduction of modern innovative technologies (simulator, virtual reality) in educational institutions;

Development of the mechanism of cooperation between educational institutions and industry organizations and expansion of the student internship system.

The implementation of these measures will serve to train highly qualified specialists in the field and increase road safety.

According to the results of the research, the practical orientation of the training of highly qualified specialists in the field of road safety is one of the urgent tasks of socio-economic importance for the country. Currently, the effectiveness of the personnel training system in the field is decreasing due to the priority of theoretical knowledge in the educational process and insufficient organization of practice-oriented training. The main reason for this is the lack of skills of students to fully apply their knowledge in real practice after graduation.

The analysis showed that several factors influence the origin of the deficiencies that exist in the system of training specialists in the field to date. In particular, the main reasons were identified as the high proportion of theoretical training in educational programs, the lack of modern technical means necessary for practice (simulators, virtual reality laboratories), and the lack of sufficient interaction between educational institutions and sectoral organizations in this area.

At the same time, the experience of foreign countries was analyzed and it was found that in countries such as Germany, Japan, and the USA, special attention is paid to practice in the training of personnel in the field of road safety. In these countries, along with theoretical knowledge, virtual reality technologies, modern simulators, and electronic learning platforms are widely used in the educational process. Also, the existence of a mechanism for continuous cooperation

between educational institutions and sectoral organizations significantly increases the level of readiness of personnel for practice. The implementation of such experience in the education system of Uzbekistan can yield high results.

Based on this, the following scientific and practical recommendations were developed within the framework of the study to eliminate existing shortcomings in the field and form highly qualified, practice-ready specialists in road safety:

In order to ensure the balance of theoretical and practical training in educational programs, increase the number of hours of practical training from the current 20–25% to 40–50%;

Widely introduce modern innovative technologies into the educational process, in particular, virtual reality (VR), simulators and digital educational platforms, and develop their material and technical base;

Organize extensive practical bases for the development of students' practical skills by strengthening cooperation between educational institutions and sectoral organizations;

Regularly involve professors and teachers in advanced training in sectoral organizations, thereby ensuring their constant updating of their knowledge through practice.

In general, as a result of the implementation of the above recommendations, the professional competences of road safety specialists will be formed, which will create the basis for the reduction of road traffic accidents in the country, the increase of population safety, and the provision of economic and social stability. That is why it is necessary to pay special attention to the development of practical education in this direction.

## REFERENCES

1. Ўзбекистон Республикаси Президентининг «Йўл ҳаракати хавфсизлигини таъминлаш тизимини янада такомиллаштириш чора-тадбирлари тўғрисида»ги қарори. – Тошкент, 2022 йил, 4 апрель, ПҚ–190-сон.
2. Ўзбекистон Республикасининг «Йўл ҳаракати хавфсизлиги тўғрисида»ги Қонуни. – Тошкент: Адолат, 2013.
3. Всемирная организация здравоохранения (ВОЗ). Доклад о состоянии безопасности дорожного движения в мире. – Женева: ВОЗ, 2022.
4. Бегматов А.С. Йўл ҳаракати хавфсизлиги ва унга таъсир этувчи асосий омилларнинг таҳлили. – Тошкент: Фан, 2020.
5. Каримов Р.С., Турсунов М.Х. Йўл ҳаракати хавфсизлигини таъминлашнинг ташкилий-ҳуқуқий механизмлари. – Тошкент: Академия, 2021.
6. Назаров М.К. Йўл-транспорт ходисалари сабабларининг ижтимоий-психологик таҳлили. – Самарқанд: СамДУ нашриёти, 2019.
7. Ильин И.А. Управление безопасностью дорожного движения: теория и практика. – Москва: Транспорт, 2021.
8. Павлов В.И. Дорожно-транспортные происшествия: причины, факторы, условия. – Москва: Юрайт, 2020.
9. Светлов А.В. Организация дорожного движения и безопасность: международный опыт. – Санкт-Петербург: Питер, 2021.
10. Кудрявцев А.В. Современные технологии обеспечения безопасности дорожного движения. – Москва: ИНФРА-М, 2022.
11. Transportation Research Board (TRB). Highway Safety Manual (HSM), American Association of State Highway and Transportation Officials (AASHTO). – Washington, D.C.: TRB, 2021.

12. Глобальный отчет о безопасности дорожного движения, Организация объединённых наций (ООН). – Нью-Йорк, 2022.
13. Yannis G., Evgenikos P., Papantoniou P. Traffic safety management: International experience and best practices. – Springer, 2020.
14. World Bank. Road Safety Management Capacity Review: Guidelines. – Washington, D.C.: The World Bank, 2021.
15. Йўл ҳаракати хавфсизлиги бошқармаси статистик ҳисоботлари, Ўзбекистон Республикаси ИИВ ЙҚХББ. – Тошкент, 2022.