PRINCIPLES OF SELECTION AND STRUCTURING OF EDUCATIONAL MATERIALS FOR MULTIMEDIA ELECTRONIC EDUCATIONAL RESOURCES CREATED IN THE FIELD OF LIFE SAFETY AND LABOR PROTECTION

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Abstract
In this work, the principles of selection and structuring of educational materials for multimedia electronic educational resources created in the field of life safety and labor protection taught in technical higher education institutions are discussed.

Keywords: student, educational materials, life activity safety and labor protection, technical direction, general professional science.

The educational materials provided to students in the field of life safety and labor protection, which are provided for teaching in higher educational institutions, are knowledge, methods and activity experience, and a system of emotional-valuable relations.

Knowledge performs the following tasks as a component of educational material;

- forming a general vision of life safety and labor protection in production - ontological;
- normative that ensures recall and memorization of normative-legal documents on life safety in production and the science of labor protection;
- motivational, informative about the importance and importance of life safety and labor protection in production.

These functions of knowledge are reflected using terms, concepts, theories, arguments, regulations, schemes, tables, illustrations, conclusions and other means. It should be noted that in multimedia electronic educational resources, knowledge about life safety and labor protection in production cannot be given in the form of a hierarchical (tree-like) structure, because they are selected from different fields. At the same time, the implementation of the above-mentioned tasks enables the formation of knowledge about life safety and labor protection in production and the establishment of communication and relationships between them, the conscious perception and memorization of knowledge in students, as well as the formation of the following competencies:

Multicultural (ability to find organizational management solutions in non-standard situations, readiness for social interactions based on ethical and legal standards accepted in society, ability to solve socially significant problems, etc.);

Professional (mastering the general methods of protecting production workers and the population from possible accidents, catastrophes and accidents, knowing the rules and

technologies of testing and operating constructions, engineering systems and equipment of construction objects, samples of products developed by enterprises, construction objects and acquisition of the technical condition of equipment and methods of evaluating residual resources, ordering equipment and spare parts, preparation of technical documents and constructions for operation and repair of construction objects and equipment).

Activity methods are mastered by students in the form of skills and competencies. The methods of activities included in the content of multimedia electronic educational resources can be divided into the following two groups:

- subject-related (exercises, tests, competency-oriented assignments, practicals, design, information and initial data collection and systematization, calculation, construction, etc.);
- organizational (bibliography creation, perception, analysis, report creation, technical documents, etc.).

These types of activities help to form preparation for ensuring life safety and labor protection in production.

The inclusion of the above-mentioned methods of activity in the multimedia teaching tools created in the field of life safety and labor protection for the specialty of construction and installation of engineering communications of higher educational institutions of the technical direction allows for the formation of the following skills: formation of training for activities related to life and labor protection in production ; general cultural competence (acquiring the culture of thinking, ability to generalize, analyze, and accept information, set a goal and choose a way to achieve it, understand the social importance of one's future profession, acquire high motivation to perform professional activities); professional competence (acquiring the methods, methods and means of obtaining, storing, processing information, the ability to work with information in the global computer network, understanding the role and importance of information in the modern information society, the ability to understand the risks and attacks that arise in this process, developing design and technical working documents exit, formalization of construction work of the completed project, etc.).

The experience of life activity safety and labor protection in production is acquired by solving problematic issues and performing design and construction work.

The inclusion of tasks aimed at gaining experience in life safety and labor protection into the multimedia electronic educational resources created in the science of life safety and labor protection for the specialty of construction and installation of engineering communications of technical direction higher educational institutions allows to form the following: general cultural (working with a team , striving for self-development, striving to improve one's skills); professional competences (mastering the methods of carrying out engineering work, methods of designing details and constructions in accordance with technical tasks using practical software packages; mastering the technologies and methods of mastering the basics

of the technological process of production of construction, materials, constructions, machines and equipment, etc.).

The formation of an emotional-valuable attitude to life safety and labor protection in students can be solved by including general professional tasks aimed at evaluating production objects and situations in the multimedia teaching tool. For example, the multimedia educational complex on electrical safety and protective equipment of electrical devices includes not only the algorithm for installing grounding devices, but also production situations related to violations of operations performed during the installation of the external contour of the grounding device.

In the process of analyzing and evaluating such situations, students develop a stable orientation to warning of occupational diseases that may occur in production, providing first aid to the injured, as well as organizing safe methods of work.

The inclusion of assignments aimed at gaining experience in life safety and emotional value attitude to labor protection into the multimedia teaching tools created in the science of life safety and labor protection for the specialty of construction and installation of engineering communications of technical direction higher educational institutions allows to form the following: general cultural competences (using the basic rules and methods of social, humanitarian and economic sciences in solving social and professional issues); professional (organization of workplaces, their technical equipment, ability to carry out placement of technological equipment, acquisition of production methods, etc.).

For example, in the multimedia educational complex on electrical safety and electrical equipment grounding devices intended for construction students, we included a sample technological map of the installation of external and internal grounding devices. Such a map is used for planning production processes, organization of construction works, other organizational-technological documents, as well as familiarization with the rules of production-related work of workers and engineers.

A model technological map includes not only construction norms and rules, a set of rules of sanitary norms, technical conditions and planning management documents, but also methods of forming a given system and characteristics of materials in accordance with the fundamental concepts, laws and theories of modern technical sciences, methods of evaluating their quality indicators, power supply of buildings development prospects of systems, single-phase and three-phase electrical circuits and devices, as well as electrical machines and electrical facilities were developed taking into account the principles of operation.

Selection of educational material for the multimedia educational complex based on the scientific principle, formation of students' skills and qualifications for working with catalogs, archives and information forms; creating maps, annotations, block - schemes, creating

educational - production projects, making drawings, diagrams and graphs allows you to prepare presentations.

As a conclusion, it can be noted that the advantages of the multimedia electronic educational resources created on the subject of life safety and labor protection based on the educational materials selected on the basis of the principles of scientificity, componentity and harmony are as follows.

- students of educational materials given in training

deeper and more problematic study by;

- the possibility of saving time due to the reduction of the time of learning in the training process;
- long-term preservation of acquired knowledge in the learner's memory and the ability to apply it in practice;
- increase in the number of tasks performed in training;
- the student becomes an educational subject as a result of being required to actively control the computer;
- emergence of opportunities for students to observe, model and directly demonstrate processes that are difficult to observe, etc.

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