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Model of Design of Multimedia E-Learning Resources on the Subject "Safety of Life and Labor Protection"

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Abstract *— This article is a model for the development and implementation of multimedia e-learning resources on life safety and labor protection for students in the field of construction and installation of engineering communications training materials on life safety and labor protection taught in technical universities.*

Keywords: information, information-educational environment, information-methodical means, multimedia e-learning resources.

Introduction

The purpose of the multimedia e-learning resource on life safety and labor protection for students in the construction and installation of engineering communications is to provide students with a comprehensive informational impact on the formation of general cultural and professional competencies in life safety and labor protection, as well as lifelong professional readiness.

The choice of goals is conditioned by the formation of vocational training, the formation of general cultural and professional competencies in students of engineering-construction profile, informatization of vocational education, increasing requirements for labor protection in enterprises.

Today, in the context of changing socio-economic relations and modernization of production, vocational training has become one of the important factors in the sustainable development of society, the competitiveness of the state. The main strategies of vocational training are:

- Restoring the systemic role of vocational education in the life of each person and society as a whole;
- Development of flexible, practice-oriented, interdisciplinary forms of scientific research on the problems of vocational education;
- Ensuring the system-organizing functions of the pedagogy of vocational education in interdisciplinary research, which studies vocational education as a whole, its organizers as a whole.

Therefore, the design and implementation of a pedagogical approach to life safety and labor protection, and in particular a multimedia training complex on life safety and labor protection, is one of the components of industrial safety: healthy and safe working conditions in production, injuries and occupational diseases. prevention. The implementation of the strategies listed above puts the subjects of vocational education in the context of the dialectical interrelation of tradition and innovation. Vocational training as a social institution has a number of unique qualitative features: the ability to increase their values , to live, to develop themselves, to improve themselves, to ensure self-transformation. This ability is based on the unity of tradition and innovation of vocational training.

Tradition (Latin Traditio- transmission) is a social and cultural heritage that is passed down from generation to generation and preserved for a long time in certain communities and social groups.

The tradition of the vocational training system in our country is fundamental; the idea of shaping the provision of self-development, a multifaceted entity that is beneficial to society; social partnership of vocational education and production; integration of education and upbringing; state, society, personal values of vocational education. It is these traditions that ensure the quality of our country, the traditions of the vocational education system, its quality and membership.

Based on the subject of our study, the traditions of vocational training in the field of life safety and labor protection, for example, can be taken as follows:

- Continuity as a vertical integration of vocational education institutions that provide vocational training on the basis of continuity of educational programs, the division of responsibilities in the field of life safety and labor protection;
- social cooperation of vocational education institutions, social organizations and employers aimed at ensuring labor protection through joint committees and general vocational training programs.

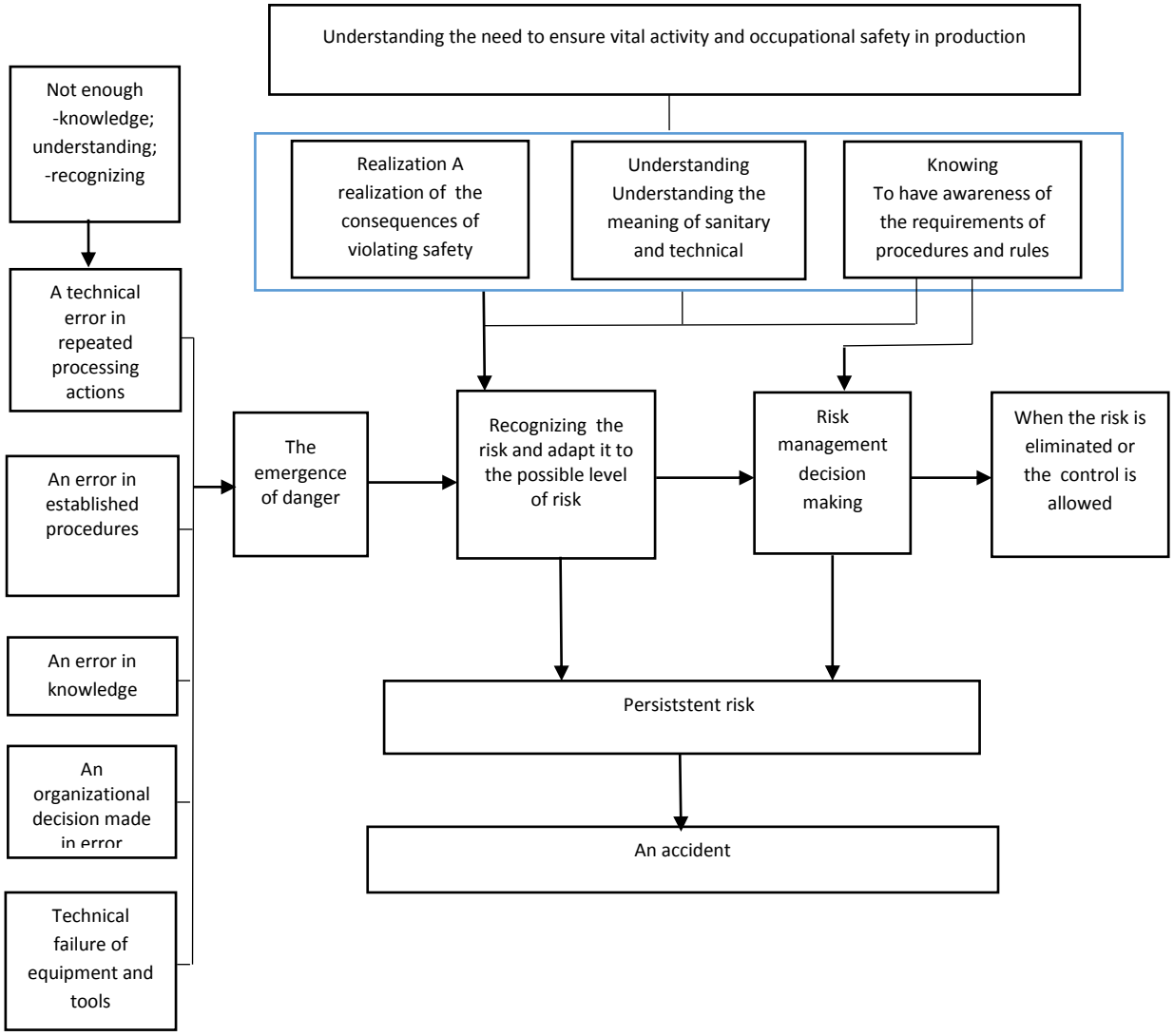

Figure 2 Understanding the need to ensure life safety and occupational safety in production .

Part, the effectiveness of vocational training is related to innovation. Innovation-economic, scientific-technical, ecological and social term. Innovations in the vocational training system can include: individualization of training; formation of general cultural and professional competencies, lifelong professionalism (" lcud life. edication ") quality management of vocational education; integration of vocational education, science and industry; the idea of man as the goal of vocational education; management mechanisms of the regional system of vocational education; international cooperation: network education clusters; Organization of "Alumni Fair", the transition through educational loans; "Graduate - employer" forms of contract employment.

Based on the subject of our study, the following are examples of innovations in the field of occupational safety and health:

- as a process that provides continuity, the formation of cultural and professional competencies, readiness for professionalism throughout life;
- The organization of support services for the process of vocational training in the field of life safety and labor protection, training and research centers;
- Consolidation of the region's innovative potential in the interests of its social and economic development, identification of trends in education policy and strategy development in the field of life safety and labor protection;
- Development of integrated educational programs on life safety and labor protection at all levels of vocational education to train competitive professionals;

- Development of a methodology for the formation of the state order for the training of specialists in occupational safety and health, taking into account the characteristics of the regional labor market and the interests of each participant;

- Development and testing of a quality management system for vocational training in the field of life safety and labor protection;

- Diversification of vocational training in the field of life safety and labor protection. It includes personal (creating optimal conditions for the personalization of vocational training and the formation of lifelong training), organizational (integration of the form, method of complex information exposure to students).

Based on the above, the unity of traditions and innovations is not only the methodological basis of scientific research, but also a prerequisite for effective professional training aimed at the formation of general cultural and professional competencies in life safety and labor protection, as well as lifelong professional preparation.

Thus, the formation of general cultural and professional competencies in students, computerization of vocational education, increasing requirements for the quality of vocational education through the use of multimedia technologies, construction and installation of engineering communications for bachelors in the field of life safety and labor protection. ensuring the impact of comprehensive information aimed at the formation of general cultural and professional competence in labor protection, as well as ensuring the readiness for lifelong professionalization.

Based on the purpose discussed above, the task of multimedia e-learning resources for life safety and labor protection for bachelors in the field of construction and installation of engineering communications is as follows:

- First, the acquisition by students of the types of scientific and theoretical knowledge identified in the educational program in the field of life safety and labor protection;

- secondly, the integration of professionally significant knowledge, skills and competencies in the field of life safety and labor protection to the level of professional competencies;

- Thirdly, the formation of a stable orientation of students in the development of methods of independent study of the subject and professionalization throughout life.

Methods of formation and maintenance of a package of professional standards for occupational safety and health; model of interaction between employers and vocational schools; as well as scientific and innovative activities of higher education institutions in the field of labor protection.

Studies show that only 17% of construction professionals dealing with occupational safety and health have higher technical education, 21% have higher humanities education, 33% have secondary vocational education, 12% have secondary general humanitarian education, and 17% have secondary education. educated [138] .

Thus, the multimedia training complex on life safety and labor protection is one of the tasks set in the curriculum, mastering the types of activities in the field of life safety and labor protection and mastering scientific and practical knowledge by students is conditioned not only by the requirements of Federal state educational standards. it is necessary to train specialists capable of ensuring safe and accident-free operation for modern production. This is because it requires all production entities to organize professional training for their employees in occupational safety, industrial safety, electrical safety, fire safety, radiation safety, first aid for the injured, etc. [108] .

Therefore, we have included modules such as textual, demonstration control, reference, as part of a multimedia training complex on life safety and labor protection for students majoring in construction and installation of engineering communications.

- First of all, the modular-competent construction of educational material, first of all, allows the theoretical and practical organizers of vocational training to integrate them optimally. In doing so, it provided a reconsideration of the place and role of theoretical knowledge in the process of acquiring competencies, organizing and systematizing them, which ultimately leads to an increase in the motivation of learners to master them.

- Second, the modular-competent construction of the training material allows it to quickly update and replace its content at a competitive level of training in the event of changes in occupational safety requirements.

Third, the modular-competent construction of educational material allows to personalize professional training, knowledge, skills, and previous education (or work experience) of students based on the required modules or their separate combinations.

-Fourth, the modular competent construction of educational material allows students to master the methods of independent study of the subject and conditions the formation of a stable orientation to professionalization throughout life.

Modernization of production through reconstruction and technical re-equipment is an important component of its development strategy. The introduction of modern high-performance technological equipment is a prerequisite for the production of competitive products, which in turn increases the level of demand for professional training of competent specialists in the field of life safety and labor protection. The study of safe methods and techniques of work and the provision of first aid to the injured is carried out by the employer when hiring, transferring to a new job and if necessary. Specialists need departments that are familiar with the forms and methods of labor protection, the negative factors of labor activity. They help reduce the level of injuries and occupational diseases, manage occupational risks.

Therefore, the employer provides professional training of specialists in the field of life safety and labor protection, and checks the knowledge on life safety and labor protection requirements through the guidance on life safety and labor

protection; study of methods and techniques of safe performance of work by internships and examinations in the workplace; learning to provide first aid to those injured in production.

However, improving the process of vocational training in the field of life safety and labor protection is not possible without creating a professionally oriented virtual-educational environment, one of the forms of vocational training in occupational safety and health, virtual consulting "Occupational Safety" The creation of centers is not a random solution.

Therefore, the design and implementation of multimedia training complexes on life safety and labor protection is relevant not only for vocational education pedagogy, but also for modern production.

Life safety and labor protection of the multimedia functions of electronic educational resources [11] (the students to monitor the implementation of the activities of life safety and labor protection training program in the field of scientific and theoretical knowledge and development activity ; k ASBIS important cognitive skills, work skills muhorfaza integration of professional competencies in the field of education; the formation of a stable orientation of students to the study of methods of independent study of science and lifelong professionalism) provides the following opportunities :

-Personalization of the training process ;

- Diagnosis (verification) of errors in the control of the formation of general cultural and professional competencies in the field of labor protection ;

- self-monitoring and self-regulation of vocational training ;

- visualization of educational materials ;

- modeling and simulation of the process of life safety and labor protection ;

- Formation of skills and competencies in the analysis of standard and non-standard situations related to occupational injuries, occupational diseases, accidents and accidents ;

the direction of construction and installation of engineering communications for bachelors is determined by the requirements of federal state educational standards, the requirements of current legislation on life safety and labor protection and modernization of production, the selection of criteria for the effectiveness of multimedia training complex on life safety and labor protection. Therefore, the direction of construction and installation of engineering communications for bachelors can be included in the set of criteria for the effectiveness of a multimedia training complex on life safety and labor protection.

1) Knowledge - perceptions of safe working conditions and protective equipment ; knowledge of normative and legal acts providing protection ;

understanding the essence of occupational hygiene, industrial sanatorium, technical aesthetics, safety ; professional exposure (noise, helixes, vibration, heat, stress, infectious diseases and threats to safety) and health risk awareness ;

2) Active - the ability to identify the risks of obtaining relevant information and means of intelligence in the working conditions in the workplace ; the ability to ensure the safety of workplaces, their technical equipment in order to bring the impact of adverse conditions of the production environment of the employee to the required level of risk ;

3) Competence - mastering the methods of design, research, production, technological, production management, experimental research, installation, selection of construction materials that provide the required indicators of safety, reliability, cost-effectiveness of facilities in the course of operational activities ; sanitary-hygienic, treatment-prophylactic, rehabilitation measures on life safety and labor protection ; mastering methods of labor protection control ; the ability to prioritize risks and develop strategies to improve labor protection.

References

[1] Ярлакабов, Умирзак Маматкулович. "Некоторые способы формирования образных компонентов технического мышления у будущих учителей профессионального образования." *Молодой ученый* 12-2 (2011): 160-162.

[2] Бадрутдинов, М.Н. Функции мультимедийно-обучающего комплекса как средства социальной практики [Электронный ресурс]. Общество: социология, психология, педагогика. – 2014. – № 1. – Режим доступа: http://dom-hors.ru/issue/spp/2014-1/badrutdinov.pdf