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## **PECULIARITIES OF THE EXPERT EMPLOYMENT SETTING OF THE PROSPECTIVE ECOLOGISTS**

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Peculiarities of the Expert Employment Setting of the Prospective Ecologists

The peculiarities of the expert employment setting of the prospective ecologists are defined in this article. The world organizations for improvement of quality of higher education are covered. The system and organizational, structural and functional analyses of administrative institutes for quality of education are conducted. The diagnosis of the information support for the bodies of trans-border integration to improve quality of education is given.

*Key words:* prospective ecologists, expert employment setting.

The environmental crisis has forced to accept a new paradigm of ecological and cultural value system at the same time, concepts and perceptions that shape a new vision of reality based on the harmonization of relations between human society and nature. For Ukraine, which, in fact, is on the verge of exhaustion of natural potential, sustainable development should be considered as such where the Nature stands a dominant of life rather than a resource for economic growth. Therefore, multivariate control process of environmental activities according to the natural laws of society life has to be seen as the only sure mean to achieve constancy of its development with balanced use priorities of technological and biotic mechanisms regulation of harmonization life process, simulation by regional and practical ways to achieve harmony and transition to environmentally sustainable development [1].

Most of the issues that arise in the management of the environment are associated with the implementation of eco-expert work on the evaluation of various objects. These objects are active business objects and environmental situations,

project and pre-project materials, documentation on the introduction of new techniques, technologies, etc [2].

The issue of environmental education and its development trends in higher vocational education are highlighted in the works of Bilyavs'kyi G., Boholyubov V., Drobnokhod M., Zlobin Yu., Kysel'ov M., Luk'yanova L., Ridey N., Rudyshyn S. etc; problems of continuous professional education are highlighted in the works of Andrushchenko V., Arnautov V., Yemchyk L., Zyazyun I., Nychkalo N., Sihayeva L., Skybyts'kiy E., Sokolova I., Stehantsev A., Finikov T. etc; methodological, didactic and methodological principles of environmental education are analyzed in the works of Andrushchenko V., Dobrovol's'kiy V., Zaskalyet S., Nekos V., Pometun O., Skyba Yu. etc; issues of professional training series are discussed in the works of Kudin A., Kremen' V., Sydorenko V., Sysoyeva S. etc.

However, despite the presence of diverse and very large-scale studies, the question of peculiarities of the expert employment of the prospective ecologists is still unexplored.

According to articles 33, 37 of the Law of Ukraine "On Environmental Expertise" ecologists as professional experts carry out ecological and expert analytical studies evaluation of facility ecological examination, which in future is taken into account when preparing the state ecological expertise conclusion.

The state environmental expertise is obligatory for kinds of activity and objects that make up an increased ecological danger of which is approved by the Ukrainian Cabinet of Ministers since 27.07.1995 № 554 "On the activities and facilities list that present increasing ecological danger". List of documentation that is submitted for State environmental examination, set by the Cabinet of Ministers of Ukraine dated 31.10.1995 No. 870 'on procedure of documentation on State ecological expertise'. The main document upon which a decision on the admissibility of the implementation object of ecological expertise is adopted is the data on the environment impact assessment (EIA).

Ecological expert activity is a kind of research and practical activities of specially authorized state bodies, environmental expert groups and associations of

citizens based on the cross-industry environmental research, analysis and evaluation of preproject , project and other materials or objects, implementation and operation of which may adversely affect or impact on the environment, and is aimed at the preparation of conclusions about conformity of the planned or ongoing activities and legislation norms on environmental protection, rational use and reproduction of natural resources, providing environmental security [3].

In the process of eco-expert activity the compliance with the legal order of project decisions is checked by a legal order of ecological character and quality estimation of projects from the point of view of ecological possibilities of natural systems is held as well as accordance to the necessities and society interests in relation to a favorable environment.

According to the general rule established by the 27 article “On Environmental Expertise” the expert of ecological examination can be a specialist, who has higher education, corresponding speciality, qualification and professional knowledge, possesses expert information analysis skills and ecological expert assessment methods as well as practical experience in the relevant area not less than 3 years.

Theoretical basis of ecological-environmental expert analysis of the projects is interdisciplinary environmental knowledge of the natural and social sciences and environmental expert study, i. e. the scientific discipline of environmental expertise. Strategy, mechanisms and algorithms of eco-expert activity of the future ecologists are mastered by the students when studying the special subjects, in formation of which an important role is given to combining of sectoral and regional (ecosystem) principles in environmental activities [4].

The content of the environmental impact assessment is such a specific expert activity that involves closely interrelated ecological and expert knowledge elements as inspection and assessment of environmental content projects. Ecological expert activity in relation to projects verification is aimed at establishing of ecological validity of project elaborations from the position of ecological requirements, including normatively-legal character rules.

The environmental-expert verification extent and nature is largely determined by the project materials peculiarities, presented at the examination development stage, end-use and tasks, view projects, taking into account the specifics of the implementation in a particular region. However it is possible to distinguish some general ecological expert verification directions in practice interests.

The algorithm implementation for environmental impact assessment is determined by the order of actions in the system, combined environmental expert activity, which ultimately leads to the targets achievement, including the preparation of a reasonable and objective environmental expert opinion.

The main tasks that ecologists experts must solve are: pre-project and project development, substantiated documentation, research materials, expert assessments that will assist the rational use, natural resources restoration and protection, the use of territories and objects of natural-reserved fund and their preservation; substantiating documentation development for expertise in the field of waste management, hazardous chemicals, pesticides and agrochemicals to comply with the requirements of biological and genetic safety in creating, studying and practical use of genetically modified organisms (GMOs) in an open system; techniques development, technologies and environmental protection, the mechanisms development and effective systems implementation of environmental impact assessment, auditing, management, creation of information-analytical systems implementation, the formation of appropriate databases, conducting scientific, industrial, economic and other activities in accordance with the laws of Ukraine, European and international standards and requirements [5].

The environmental experts subject in this case is to conduct radiation measurements and determination of the radiation condition of facilities, vehicles, transportation, ecological and economic assessment and evaluation of systems and objects of natural-reserved fund, improvement and implementation of evidence-based remote sensing methods of sustainable environmental management and environmental monitoring, environmental engineering; assessment of risk of the potential impact of GMOs on the environment, development and review of the substantiating documents, process standards (regulations), standards, etc., providing

consulting and informational assistance to stakeholders on environmental issues (environmental consulting); implementation of environmental protection in accordance with the requirements of ISO 9000, ISO 14000, etc., to inform the public on environmental impact assessment, auditing, accreditation, certification, labeling in the field of environmental protection.

It was established that the peculiarities of expert employment setting of the future ecologists in modern conditions require higher school reorientation on target training environmental experts to expert activity with the acquisition of their knowledge and skills in information and analytical, scientific, organizational and legal support to implement certain state environmental policy in the areas of environmental protection, waste management, pesticides and agricultural chemicals, air protection, forests, flora and fauna, natural resources, territorial waters, maintain and use of ecological network and natural areas, and in areas of geological study and rational use of mineral resources, the development of water management and land reclamation.

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Шофолов Д. Л., Рідей Н. М., Сицька А. В.

Особливості експертної сфери працевлаштування майбутніх екологів

Визначено основні особливості експертної сфери працевлаштування майбутніх екологів; встановлено світові організації із забезпечення якості у сфері вищої освіти; здійснено системно-організаційний та структурно-функціональний аналіз управлінських інституцій систем освіти; діагностовано інформаційне забезпечення органів транскордонної інтеграції у досягненні якості освіти.

*Ключові слова:* майбутні екологи, експертна сфера працевлаштування.

Шофолов Д. Л., Ридей Н. М., Сицкая А. В.

Особенности экспертной сферы трудоустройства будущих экологов

Определены основные особенности экспертной сферы трудоустройства будущих экологов; установлены мировые организации по обеспечению качества высшего образования; осуществлен системно-организационный и структурно-функциональный анализ управленческих институтов систем образования; диагностировано информационное обеспечение органов трансграничной интеграции в достижении качества образования.

*Ключевые слова:* будущие экологи, экспертная сфера трудоустройства.

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