

## **Course Annotation**

Course Title: **Ecological Audit**

Credits: 5 (180 h.)

## **Course objective**

Forming of the knowledge of environmental audit (EA) in accordance with the requirements of current legislation, procedure of carrying out the EA, international experience in the implementation of the EA, features of the EA implementation in Ukraine.

## **Course task**

Acquirement of theoretical knowledge about the legislation base of environmental audit, the rights and obligations of the customers and executors of the EA, the rules of EA documents drawing up, creation the generalized scheme of EA conducting and practical skills of EA evidence dealing.

## **Course main chapters**

Definitions of environmental audit (EA). Goals and objectives of EA. The history of EA. Basic principles of the EA and their legal support. Objects and subjects of EA. The rights and obligations of the customer and executors of the EA. Certification for EA conducting. Criteria and evidence of EA. The scope of the EA. Implementation levels and forms of EA. Specific types of EA (privatization, energy, investment types of EA). The environmental management system and audit (EMSA). Principles and objectives of environmental management. Introduction into EMSA. Environmental consulting services. Environmental statement. Environmental administration and environmental management. Similarities and differences between these concepts. International environmental standards. Objectives and scope of ISO 14000 use. Generalized scheme of the EA conduction. Agreement about carrying out the EA and additions to the contract. Preparation for the EA. Gathering of evidence for EA. The basic documents of the company, which are estimated under the EA. EA report. The main sections of the EA report. Conclusions and recommendations of the EA. Environmental insurance. International experience in the EA implementation.

## **Learning outcomes**

After attending the course students will be able to:

- justify the need for the EA conducting at the specific enterprises and make a draft EA plan;
- use the necessary technical documentation for the purpose of gathering EA evidence;
- analyze the negative impact of mining and metallurgical complex on the environment;
- determine the sources, types and levels of contamination;
- assess the effectiveness of environmental protection measurements by enterprise-client of the EA;
- assess the state of the statistical and other reports about environmental protection;
- determine the main environmental discrepancy between ecological characteristics of enterprises and requirements of the environmental legislation of Ukraine;
- develop environmental measures in order to improve the environment at the plant and the surrounding area;
- propose the alternative available technologies and assess their expediency;
- use the information about the standards ISO 14000 and ISO 1901.1 for environmental express-assessment of product samples from Ukrainian and foreign producers in accordance with international standards.

Final **assessment** of student's knowledge and practical skills is **examination**.

**Head of the Ecology Department,  
Professor**

**A.I. Gorova**