

# **OCCUPATIONAL SAFETY AND HEALTH**

(name of the discipline)

## **COURSE SYLLABUS ABSTRACT**

Specialty 1-70 03 01 Car roads

### **Distribution of academic discipline by semester**

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	1	2	2
Semester	2	3	3
Lectures, hours	34	6	6
Laboratory classes, hours	16	4	4
In-class test (semester, hours)		3 (2 h.)	3 (2 h.)
Exam, semester	2	3	3
Contact hours	50	12	12
Independent study, hours	58	96	96
Total course duration in hours / credit units	108 / 3		

#### 1. Course outline

The main provisions of the legislation on labor protection. Organization of work on labor protection in construction. Investigation, accounting and study of industrial injuries and occupational diseases. The main tasks of industrial sanitation and occupational health. Meteorological conditions of the production environment. The harmfulness of substances and the prevention of poisoning. industrial dust. Protection against ionizing, electromagnetic and laser radiation. industrial ventilation. Industrial lighting. Protection against noise, ultrasound and infrasound. production vibration. Issues of labor protection in organizational and technological documentation. Prevention of injuries during earthworks. Safety of work during the installation of buildings and structures. Safety of work during the operation of construction machines and mechanisms. Electrical safety. Prevention of injuries when working with vessels under pressure. Combustion and explosive properties of substances and materials. Fire resistance of buildings and structures. Protection of buildings of explosive productions. Fire prevention in construction. Ways and means of extinguishing fires.

#### 2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- laws, other regulatory legal acts in the field of labor protection;
- the main provisions of the labor protection management system at enterprises for the construction and operation of highways;
- dangerous and harmful production factors, methods for their identification and elimination;
- Fundamentals of the theory of labor protection in the design, construction and operation of roads.

be able to:

- create a system for managing labor protection at an enterprise for the construction and operation of roads;
- develop organizational and engineering measures to ensure safe working conditions;
- perform calculations of the main parameters of protective systems and devices.

possess:

- skills of analysis of the labor protection management system at the enterprise;
- methods for calculating the main parameters of protective systems and devices;
- methods of identification and elimination of hazardous and harmful production factors.

#### 3. Competencies

Codes of generated competencies	Names of formed competencies
БПК-11	Analyze the causes of occupational injuries and occupational diseases, develop and implement measures to prevent occupational injuries and occupational diseases

#### 4. Requirements and forms of current and intermediate certification.

As a form of monitoring the current progress, the defense of the essay, the test, and the current certification in the form of an exam are used.