

Protection of the population and facilities from emergency situations . Radiation safety ABSTRACT

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

for specialty 1 – 27 02 01 Transport logistics (by directions)

1– 27 01 01 Economics and organization of production (by directions)

Qualification of a specialist Engineer-economist

	Form of higher education
	Full-time (daytime)
Course	1
Semester	1
Lectures, hours	34
Laboratory classes , hours	16
Credit, semester	1
Classroom hours in the academic discipline	50
Independent work, hours	58
Total hours/credits	108/3

1. Summary of the discipline

Theoretical foundations of human life safety. Brief description of emergency situations. Emergency prevention and response. Actions of management bodies, forces of the State Emergency Service, Civil Defense, the population in emergencies. Physical nature and sources of radiation hazard. Basics of radiation safety of living organisms. The disaster at the Chernobyl nuclear power plant and its consequences for the Republic of Belarus Measures to protect the population from ionizing radiation

2 Learning outcomes

know: - theoretical foundations of ensuring the safety of human life in modern conditions, taking into account the profile of professional training; - the content of measures to prevent emergency situations; - The procedure for providing first aid to victims in emergency situations; - The procedure for providing psychological self- and mutual assistance to victims in emergency situations; - the content of measures to ensure the sustainability of the functioning of organizations in conditions of hazards and in emergency situations of a natural and man-made nature, dangers arising (arising) from the conduct of hostilities or as a result of these actions; - the structure, tasks, functions and capabilities of the State System for Prevention and Elimination of Emergency Situations and Civil Defense. - the basics of human radiation safety and its survival in conditions of radioactive contamination.

be able to: - use the methods of forecasting, assessing the situation in emergency situations and take measures to prevent them in their areas of work; - act correctly in emergency situations and make appropriate decisions; - survive in conditions of emergency situations of natural and man-made nature, dangers arising (arising) during the conduct of hostilities or as a result of these actions; - organize work to ensure safety in emergency situations ; - use personal protective equipment; - work with instruments of chemical, dosimetric and environmental control, as well as with other equipment used in the network of observation and laboratory control.

possess: - skills to carry out measures to prevent emergency situations ; - Performance skills measures to ensure the sustainability of the functioning of organizations in emergency situations of peacetime and wartime.

3. Competencies to be formed

Code	Names of formed competencies
for 1-27 02 01 -BOD- 9 for 1- 27 01 01 BOD-10	Be able to assess the environmental and energy sustainability of materials, technologies and industries, form measures to protect the population in emergency situations, ensure radiation safety, develop labor protection measures, methods and methods safe production of works, protection of life and health of people

4. Requirements and forms of current and intermediate certification

The following forms are used for competency diagnostics :

- oral;
- written;
- oral and written.

To assess the level of knowledge of students , the following diagnostic tools are used:

- written reports on laboratory work (written form);
- reports on laboratory work with their oral defense (oral and written form);
- assessment on the basis of a modular-rating system (oral-written form);
- oral tests (oral form).