

Population and Facility Protection in Emergencies. Radiation Safety
ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION
for the specialty

6-05-0715-03 Cars, tractors, mobile and technological complexes

profiling

Computer engineering in hoisting and transport engineering

profiling

Computer engineering in construction and road engineering

profiling

Computer engineering in the automotive industry

| | Form of higher education |
|---|--------------------------|
| | Full-time (daytime) |
| Course | 1 |
| Semester | 2 |
| Lectures, hours | 16 |
| Laboratory classes, hours | 16 |
| Pass, semester | 2 |
| Class hours for the academic discipline | 32 |
| Independent work, hours | 76 |
| Total hours per academic discipline / credits | 108/3 |

1. Brief content of the discipline

Theoretical foundations of human life safety. Brief description of emergency situations. Emergency prevention and response. Actions of governing bodies, forces of the State Emergency Service, Civil Defense, the population in emergency situations. Physical nature and sources of radiation hazard. Fundamentals 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: - the 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 the face of dangers and in emergency situations of a natural and man-made nature, dangers arising (arising) during military operations or as a result of these actions; - the structure, tasks, functions and capabilities of the State system for the prevention and elimination of emergency situations and civil defense. - basics of radiation safety of a person and his survival in conditions of radioactive contamination

be able to: - use methods of forecasting, assessing the situation in emergency situations and taking measures to prevent them in their areas of work; - act correctly in emergency situations and make appropriate decisions; - survive in 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 chemical, dosimetric and environmental control devices, as well as with other equipment used in the surveillance and laboratory control network.

have the skill - to carry out measures to prevent emergency situations;

- implementation of measures to ensure the sustainability of the functioning of organizations in emergency situations of peacetime and wartime..

3. Formed competencies

BPC-4 Apply the basic rules of safety, industrial sanitation, fire safety and methods of protecting production personnel and the public from the possible consequences of accidents, natural disasters.

4. Requirements and forms of current and intermediate certification

Protection of laboratory work; test; intermediate control of progress; credit - intermediate certification