Assessment tools for conducting attestation in discipline «Hygiene» for students of 2024 year of admission under the educational programme 33.05.01 Pharmacy, specialisation (profile) Pharmacy (Specialist's), form of study full-time for the 2025-2026 academic year

1. Assessment tools for conducting current attestation in discipline

1. Assessment tools for conducting the current assessment in the discipline
1.1. Assessment tools for conducting certification in seminar-type classes

Certification in seminar-type classes includes the following types of tasks: solving situational problems, control work, and an interview on control issues.

1.1.1. Example of a situational task
Verifiable indicators of competence achievement: CC-1.1.1., CC-1.2.1., CC-1.2.1, CC-1.3.1, CC-8.1.1, CC-8.2.1, CC-8.3.1, CC-3.1.1, CC-3.2.1, CC-3.3.1, PC–1.1.1, PC-1.2.1, PC-1.3.1.

In one of the districts of the city of M., a sample was taken in connection with complaints from residents about unsatisfactory water quality. Water supply is provided from a centralized water supply source. The analysis of water samples taken from the distribution network (from the water tap in the apartment) showed:
- chromaticity, degrees — 25
- odor, -2 points, chlorine at 20 ° C
- taste, points — 3, ferruginous at 20 ° C
- turbidity, mg/l – 1.5
- pH- 6.5
- residual chlorine (free), mg/dm3 – 0.4
- total hardness, mg-eq./dm3 — 5
- permanganate oxidizability, mg/dm3 - 5
- BPK5, mg O2/L -2 dm3
- dry residue, mg/dm3- 450
- nitrates (NO3), mg/dm3 — 28
- sulfates, mg/dm3 — 200
- chlorides, mg/dm3— 250
- iron, mg/dm3 — 1.2
- total microbial number, CFU/ cm3 — 50
- total coliform bacteria in 100 cm3 — absence.

Task:
1. Analyze the water quality and give a conclusion on the suitability of the water for drinking purposes.
2. Indicate the possible effects of drinking such water on the population.
3. Specify the document regulating the requirements for the quality of centralized water supply.
4. Specify the necessary methods to improve the quality of this water.

1.1.2. An example of a test case
Verifiable indicators of competence achievement: UK-1.1.1., UK-1.2.1., UK-1.2.1, UK-1.3.1, UK-8.1.1, UK-8.2.1, UK-8.3.1, OPC-3.1.1, OPC-3.2.1, OPC-3.3.1, PC–1.1.1, PC-1.2.1, PC-1.3.1.
Option 1.
1) Carbon dioxide content in atmospheric air, physiological significance.
2) Geometric indicators for evaluating natural lighting in a room (to list).
3) The main ways of heat release by the body.

1.1.3. Examples of control questions for an interview
Verifiable indicators of competence achievement: UK-1.1.1., UK-1.2.1., UK-1.2.1, UK-1.3.1, UK-8.1.1, UK-8.2.1, UK-8.3.1, OPC-3.1.1, OPC-3.2.1, OPC-3.3.1, PC–1.1.1, PC-1.2.1, PC-1.3.1.
1) The physiological, hygienic and epidemiological significance of water.
2) Methods of water purification and disinfection.
3) Endemic diseases caused by water consumption – definition, examples, methods of prevention.
4) Nutrition status: definition, classification.
5) Indicators used to assess nutritional status.

1.2. Assessment tools for students' independent work
The evaluation of independent work includes essay.

2. Choose a bathing regime in an open pond for 7-year-olds living in the Volgograd region.

1. A 10-year-old child had acute respiratory viral infections during the autumn holidays. Please indicate at what time it is recommended for him to start general (dousing) water procedures.

2. Assessment tools for conducting intermediate certification in the discipline
The intermediate certification is conducted in the form of a test.

2.1. List of questions for preparation for the interim assessment

№	Questions for the interim assessment	Verifiable indicators of competence achievement
1	Hygiene as the main preventive discipline; the subject, goals, and objectives of hygiene. The importance of hygiene measures in the pharmacist's activities.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
2	The environment (natural, anthropogenic, social) and human health. Environmental factors and their impact on public health.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
3	Air hygiene. The main pollutants of atmospheric air, their impact on the sanitary conditions of life and the health of the population (using the example of the Volgograd region). Directions of atmospheric air protection.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
4	Physical properties of air and their importance for the body. Types of microclimate (classification), their effect on heat exchange and human health.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
5	Weather and climate, concepts. Classification of weather and climatic conditions. Effects on the human body. Hygienic aspects of acclimatization, including the peculiarities of acclimatization to the climatic conditions of the Volgograd region.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
6	Microclimate of residential and public buildings: classification, human impact, normalization of microclimate parameters.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
7	Solar radiation, physiological and hygienic significance. Geographical and anthropogenic foci of rickets: concepts, prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
8	Urbanization, a concept. Hygienic and medical aspects of the negative potential of urbanization, prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
9	Living conditions in modern cities, the impact on public health.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1,

		ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
10	Air quality of residential and public buildings, impact on human health. Anthropotoxins, "sick building syndrome", concepts.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
11	Sources of anthropogenic indoor air pollution. Ventilation of premises.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
12	Natural and artificial lighting of residential and public buildings; importance for human health; rationing of parameters.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
13	The physiological, hygienic and epidemiological significance of water. Methods of water purification and disinfection.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
14	Diseases of the population associated with the use of non-standard water, risks for the population of the Volgograd region. Prevention of water epidemics.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
15	Endemic diseases associated with non-standard salt and trace element composition of water; prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
16	Hygienic requirements for drinking water; methods for improving its quality. Hygienic legislation in the field of water supply.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
17	Comparative characteristics of water supply sources. Sanitary protection zones of water sources.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
18	Hygienic assessment of purified (distilled) water: methods for determining and evaluating the quality of distilled water for the production of sterile dosage forms.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
19	Nutrition as a social and hygienic problem and a factor shaping human health. Types of nutrition.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
20	Alimentary-dependent diseases (ADD) - definition, classification. The most common ADD among the population of the Volgograd region, preventive measures.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
21	Principles of healthy human nutrition. Balanced nutrition, a concept. Human energy balance, types of energy expenditure. Rationing of nutrition for persons of the 1st professional group. Modern rationed nutrition of various population groups	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
22	Human energy balance, types of energy expenditure. Rationing of nutrition for persons of the 1st professional group.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
23	Modern rationed nutrition of various population groups.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
24	Nutrition status: concept, main types, indicators for its assessment.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1,

		ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
25	Healthy nutrition of people with intellectual labor: rationing and recommended dietary regimes.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
26	Healthy nutrition of elderly people: rationing, basic principles. Proteins in human nutrition: biological role, rationing, sources. Ways to increase the biological value of the protein part of diets.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
27	Proteins in human nutrition: biological role, rationing, sources. Ways to increase the biological value of the protein part of diets.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
28	Fats in human nutrition: biological role, rationing, sources.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
29	Carbohydrates in human nutrition: biological role, rationing, sources.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
30	Minerals and trace elements in nutrition: biological role, sources.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
31	Vitamins: concept, classification, biological role. Types of vitamin deficiency, causes, prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
32	Hypovitaminosis: causes, prevention. The most common hypovitaminosis among the population of the Volgograd region.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
33	Water-soluble vitamins: biological role, rationing, sources in nutrition. Ways to preserve the vitamin value of food and ready meals.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
34	Fat-soluble vitamins: biological role, rationing, sources in nutrition. Hypervitaminosis, concept, causes.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
35	Therapeutic and preventive nutrition as a method of prevention of occupational pathology. Types of therapeutic and preventive nutrition for employees.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
36	Food quality and safety. Xenobiotics in food, sources of supply.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
37	The importance of assessing the quality of food. Quality requirements for milk, meat, and bread. Diseases transmitted through milk and meat (on the example of the Volgograd region).	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
38	Nutritional and biological value of animal products.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
39	Nutritional and biological value of plant-based products.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.

40	Nutritional and biological value of milk. Diseases transmitted through milk. Milk quality requirements.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
41	Nutritional and biological value of meat. Meat-borne diseases. Meat quality requirements..	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
42	Nutritional and biological value of bread. Bread quality requirements.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
43	The importance of vegetables and fruits in daily and dietary nutrition.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
44	Classification of food poisoning. Food poisoning, most common in the Volgograd region.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
45	Microbial food poisoning, classification, prevention. Doctor's tactics in case of sporadic and massive food poisoning.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
46	Non-microbial food poisoning, classification, prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
47	Food toxicoinfections, pathogenesis, prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
48	Bacterial toxicosis, pathogenesis, prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
49	Occupational hygiene and physiology definitions, objectives, subject of study; role and place in the health protection system of the human worker. The concept of certification and special assessment of working conditions as elements of the occupational safety system.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
50	Harmful and dangerous production factors; concept, classification	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
51	Hygienic classification of working conditions according to the degree of harmfulness and danger. Hygienic standards of safe working conditions (MPC, remote control), the concept.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
52	Factors of the labor process that characterize the severity and intensity of work. Prevention of overwork.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
53	The main occupational diseases, their causes and prevention.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
54	Harmful production factors in the work of pharmacy workers; prevention of occupational diseases.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
55	Occupational hygiene of medical workers.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1,

		ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
56	Chemical harmful industrial factors, impact on the body of workers, prevention of occupational diseases using the example of enterprises in the Volgograd region.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
57	Ways of entry of toxic substances into the body of workers, their biotransformation and ways of elimination. Resorptive and local effects of toxic substances.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
58	Physical harmful industrial factors (noise, vibration, heating and cooling microclimate), impact on the body of workers; prevention of occupational diseases using the example of enterprises in the Volgograd region.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
59	Dust as an occupational hazard, impact on the body of workers; prevention of occupational diseases. Maximum permissible concentration, a concept.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
60	Types of medical examinations of employees, the purpose of conducting; regulatory documents.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
61	Mental health.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
62	Occupational health when working on personal computers.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
63	Hygiene of monotonous work.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
64	Hygiene of pharmacy organizations. Hygienic requirements for the location of pharmacy organizations (pharmacies, pharmacy warehouses and control and analytical laboratories) and the site layout.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
65	Hygiene of pharmacy facilities. Hygienic requirements for the layout, equipment and operation of pharmacy premises (industrial, sanitary, auxiliary, administrative).	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
66	Hygienic requirements for the planning, equipment and operation of the pharmacy aseptic unit. The main regulatory documents	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
67	Hygienic assessment of technological processes for manufacturing non-sterile dosage forms and medicines under aseptic conditions.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
68	Hygienic regulation of ventilation, microclimate, lighting, acoustic regime and water supply of pharmacy premises for various purposes; importance for the quality of pharmacy products and the health of employees.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
69	Sanitary-hygienic and anti-epidemic regime of drug production in pharmacies. Personal hygiene of the staff.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.

70	Hygienic requirements for the planning, equipment and operation of pharmacy warehouses and control and analytical laboratories. Personal hygiene of the staff.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
71	Occupational hygiene of pharmacy workers.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.
72	Factors shaping and deforming the health of the population. Health criteria. Classification of the health of children and adults.	УК-1.1.1., УК-1.2.1., УК-1.2.1, УК-1.3.1, УК-8.1.1, УК-8.2.1, УК-8.3.1, ОПК-3.1.1, ОПК-3.2.1, ОПК-3.3.1, ПК–1.1.1., ПК-1.2.1, ПК-1.3.1.

The interim assessment includes the following types of tasks: interviewing for the interim assessment, solving a situational problem.

2.2. Examples of situational tasks
Verifiable indicators of competence achievement: CC-1.1.1., CC-1.2.1., CC-1.2.1, CC-1.3.1, CC-8.1.1, CC-8.2.1, CC-8.3.1, CC-3.1.1, CC-3.2.1, CC-3.3.1, PC–1.1.1, PC-1.2.1, PC-1.3.1.

1. A 23-year-old girl went to the doctor complaining of weakness in her legs and arms, fatigue, and legs began to swell. The girl is a model. To reduce weight, she eats 2 meals a day. Excluded meat, fish and flour products from consumption. With a height of 180 cm, she weighs 55 kilograms.
Task:
1) Determine the nutrition status of the girl?
2) Determine the ideal body weight for a girl.
3) Predict possible changes in the patient's condition?

2. In the pharmacy manager's office (the working area is 20 m2) there are 2 windows, each with an area of 2 m2, the windows are oriented to the southeast. KEO – 1.5%. Artificial lighting is provided by fluorescent lamps placed in diffused light fixtures, while the illumination of the pharmacy manager's desk in the area where the working documents are located is 250 lux. The air temperature in the cold season was 20 °C, the relative humidity was 45%, and the air velocity was 0.1 m/s. Vertical temperature differences were 2 ° C, horizontal - 2.5 ° C, and the temperature gradient between the walls and the indoor air temperature was 4 °C. Aeration of the room is carried out through 2 windows, each with an area of 0.4 m2.
Task:
1) Evaluate the microclimate in the workplace (temperature, relative humidity and air mobility); natural and artificial lighting and the insolation regime of the room; calculate and evaluate the aeration coefficient.
2) Specify possible measures to prevent defects in the layout and operation of the production premises.

2.3. An example of a ticket for intermediate certification

Federal State Budgetary Educational Institution of Higher Education
"Volgograd State Medical University"
of the Ministry of Health of the Russian Federation

Department of General Hygiene and Ecology of the N.P. Grigorenko Medical Institute
Discipline: Hygiene
Specialty in specialty 05/33/01 Pharmacy, focus (profile) Pharmacy
Academic year: 202_-202_

Ticket no.
1. Solar radiation, physiological and hygienic significance. Geographical and anthropogenic foci of rickets: concepts, prevention.

2. Healthy nutrition of people with intellectual labor: rationing and recommended diet.
3. Situational task:
At the pharmacist's workplace (in the assistant's room), the parameters of the internal environment were evaluated: the light openings of the sales hall are oriented to the south, southwest. The light coefficient (SC) is 1:3, the natural illumination coefficient (KEO) is -1.7%. The general artificial lighting is provided by fluorescent lamps located on the ceiling of the assistant room, the illumination level is 310 lux. The medicine display cases are not equipped with a local lighting system. In the afternoon, during the warmer months, the staff in the sales area complains of a feeling of stuffiness.

Task. Give a hygienic assessment of the working conditions at the pharmacist's workplace. Develop the necessary preventive recommendations for optimizing working conditions.

M.P. Head of the Department _____ N.I. Latyshevskaya

The full fund of assessment funds for the discipline is available in the EIOS of the Federal State Budgetary Educational Institution of Higher Education VolgSMU of the Ministry of Health of the Russian Federation at the link: https://elearning.volgmed.ru/course/view.php?id=6084

Considered at the meeting of the Department of General Hygiene and Ecology of the Grigorenko Institute of Public Health, Protocol No. 10 dated May 23, 2025.

Head of the Department N.I. Latyshevskaya