

**Evaluation tools for certification
in the discipline "Hygiene"
for students in basic vocational education
specialist 's program
specialty 31.05.03 Dentistry,
focus (profile) Dentistry
full-time education
for the 2023-2024 academic year**

1. Evaluation tools for conducting current certification in the discipline

The current certification includes the following types of tasks: solving situational tasks, control work, interview on control issues.

1.1. Example(s) of situational tasks

Verifiable indicators of competence achievement: ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-5.1.2., ПК-6.1.1., ПК-6.1.2., ПК-6.1.3., ПК-9.1.1., ПК-9.1.2., ПК-9.2.3.

Task number 1.

The office of the doctor of surgical dentistry is designed for 2 chairs, has an area of 20 m². The windows are oriented to C (S=3 m²). Winter time of the year. During the examination of the sanitary and hygienic condition, it was determined: the walls of the office are finished with glazed tiles of light gray color to the ceiling, the ceiling is white (alkyd-styrene paint), supply and exhaust ventilation works (inflow-2, exhaust-3), the air temperature in the office is +18 ° C, the temperature of the outer wall is +15 ° C, relative humidity is 60%, the air velocity is 0.2 m/s, 1.2% KEO, artificial lighting - 500 lux (l.l.), and equipped with local shadowless reflectors near each chair.

Task:

1. Evaluate the layout, parameters of the microclimate, aeration, lighting of the office of a doctor of surgical dentistry.
2. Give the necessary recommendations for the correction of the indoor environment of the room.

Task number 2.

A 48-year-old woman turned to the doctor with complaints of shortness of breath, heaviness during physical exertion, climbing stairs. The patient works as a teacher, leads a sedentary lifestyle, usually does not have breakfast in the morning, at work she snacks most often with pastries bought in the dining room, after work she has a plentiful dinner, as a rule, eating a fried meat dish with a side dish of potatoes or pasta for dinner. Objectively: body weight 81 kg with a height of 1.66 m, no deviations from the internal organs were detected.

Task:

1. Evaluate the nutrition status of a woman.
2. Give recommendations on nutrition correction.

1.2. Example of a variant of the control work

Verifiable indicators of competence achievement: ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-6.1.3., ПК-9.1.1., ПК-9.1.2.

Option 1.

1. Norms of physiological and hygienic need for water.
 2. Measures for the prevention of endemic fluorosis.
- Hygienic value of total hardness for drinking water.

3. Basic methods of water purification.

1.3. Examples of control questions for the interview

Verifiable indicators of competence achievement: ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-13.1.2.

1. Microbial pollution of the environment in the premises.
2. Criteria for indoor air quality.
3. Ventilation of premises: natural, artificial, air conditioning; indications for their device.
4. Polymer and synthetic materials, their hygienic assessment, possible effect on humans.

2. Evaluation tools for conducting intermediate certification in the discipline

Intermediate certification is carried out in the form of an exam.

2.1. List of questions for preparation for intermediate

No.	Questions for intermediate certification Verifiable indicators of competence achievement	Verifiable indicators of competence achievement
1	Hygiene as the main preventive discipline; the subject, goals, objectives of hygiene, the importance of hygienic measures in the activities of a dentist	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-5.1.2., ПК-6.1.1., ПК-6.1.2., ПК-6.1.3., ПК-9.1.1. ПК-9.1.2.
2	Sources of atmospheric air pollution; impact on public health. Toxic factors of low intensity, the concept.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
3	The impact of biosphere pollution on human health (immediate and long-term effects of adverse effects); prevention.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
4	The main directions of atmospheric air protection.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
5	Physical properties of air, influence on heat exchange and human health.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
6	Weather and climate, concepts. Classification of weather and climatic conditions. Hygienic aspects of acclimatization.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
7	The air quality of residential and public buildings, the impact on human health. Anthropotoxins, "sick building syndrome", concepts.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
8	Sources of anthropogenic indoor air pollution. Ventilation of premises.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
9	Microclimate of residential and public	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1.,

	normalization of microclimate parameters.	ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.
10	Natural and artificial lighting of residential and public buildings. Importance for human health.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
11	Urbanization, the concept. Living conditions in modern cities, the impact on public health.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
12	Physiological, hygienic and epidemiological significance of water	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
13	Methods of purification and disinfection of water.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1. ПК-9.1.1.
14	Diseases of the population associated with the use of non-standard water. Prevention of water epidemics.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-5.1.2., ПК-6.1.1., ПК-9.1.1.
15	Endemic diseases associated with non-standard salt and trace element composition. Prevention	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
16	The content of fluoride in the drinking water of the Volgograd region. The effect on the body of low fluoride content in drinking water, prevention.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.
17	Comparative characteristics of water supply sources. Zones of sanitary protection of water sources.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
18	Hygienic requirements for drinking water; methods for improving its quality.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
19	Alimentary-dependent diseases, preventive measures.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
20	Principles of rational human nutrition. Balanced nutrition, the concept.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2., ПК-9.2.3.
21	Human energy balance, types of energy costs. Rationing of nutrition of persons of the 1st professional group.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
22	Principles of modern rationing of the population's need for energy and nutrients.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
23	Nutrition status: concept, main types, indicators for its assessment.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.

24	Proteins in human nutrition: biological role, rationing, sources.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.
25	Fats in human nutrition: biological role, rationing, sources.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.
26	Carbohydrates in human nutrition: biological role, rationing, sources.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
27	Minerals and trace elements in nutrition: biological role, sources.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
28	Vitamins: concept, classification, biological role. Types of vitamin deficiency.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
29	Hypovitaminosis: causes, prevention.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.
30	Water-soluble vitamins: biological role, rationing, sources in nutrition. Ways to preserve the vitamin value of food and ready meals.	ОПК-2.1.1. ОПК-4.1.1. ОПК-12.1.1. ОПК-12.1.2. ОПК-13.1.2. ПК-5.1.1. ПК-6.1.1. ПК-9.1.1. ПК-9.1.2.
31	Fat-soluble vitamins: biological role, sources in nutrition	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
32	Diet, concept. The recommended diet for persons of the first professional group.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
33	The value of assessing the quality of food. Diseases transmitted through milk and meat.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
34	Nutritional and biological value of animal products.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
35	Nutritional and biological value of plant products.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
36	Nutritional and biological value of milk.. Milk quality requirements. The importance of dairy products in the formation of the dental system	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
37	Nutritional and biological value of meat. Meat quality requirements.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
38	Nutritional and biological value of bread. Requirements for the quality of bread.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-5.1.2., ПК-9.1.1.
39	The importance of vegetables and fruits in daily and dietary nutrition.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
40	Classification of food poisoning. Food	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1.,

	toxicoinfection, bacterial toxicosis, pathogenesis, prevention.	ОПК-12.1.2., ОПК-13.1.2.,ПК-5.1.1., ПК-5.1.2., ПК-6.1.1., О ПК-6.1.3., ПК-9.1.1.
41	Hospital construction systems. Centralized and decentralized construction systems, advantages and disadvantages	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-6.1.3., ПК-9.1.1.
42	Hygienic requirements for the ward section and ward departments from the standpoint of creating optimal conditions for patients to stay in a dental hospital.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-6.1.3., ПК-9.1.1.
43	Air exchange, microclimate, lighting of the main rooms of the dental laboratory, value, rationing.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
44	The problem of nosocomial infections; measures of nonspecific prevention, purpose and content.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2.,ПК-5.1.1., ПК-5.1.2., ПК-6.1.1., ПК-9.1.1., ПК-9.1.2.
45	Sources, causes of the prevalence of nosocomial infections; the main directions of prevention.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-5.1.2.,ПК-9.1.1., ПК-9.1.2.
46	Harmful and dangerous production factors; concept, classification.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-5.1.2.,ПК-9.1.1., ПК-9.1.2.
47	Physical harmful production factors (heating microclimate, noise, vibration), prevention.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.,ПК-9.1.2.
48	Chemical harmful production factors, prevention.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.,ПК-9.1.2.
49	Hygienic classification of working conditions according to the degree of harmfulness and danger. Hygienic standards of working conditions (MPC, remote control), the concept.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.,ПК-9.1.2.
50	Factors of the labor process that characterize the severity of labor. Prevention of overwork. Recommended working position for dentists.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2.,ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
51	Factors of the labor process that characterize the intensity of labor. Recommended working hours for dentists.	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
52	Occupational diseases, causes and prevention. The main occupational diseases of a dentist, prevention	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
53	Harmful production factors in the work of medical workers; prevention of occupational	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.

	diseases.	
54	Chemical harmful production factors, influence on the body of workers, prevention of occupational diseases in dental doctors	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ПК-5.1.1., ПК-6.1.1., ПК-9.1.1.
55	Physical harmful production factors (noise, vibration, heating and	ОПК-2.1.1., ОПК-4.1.1., ОПК-12.1.1., ОПК-12.1.2., ОПК-13.1.2., ПК-5.1.1., ПК-5.1.2., ПК-1.1., ПК-9.1.1., ПК-9.1.2., ПК-9.2.3.

2.2. Example of an examination ticket

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

Department: General Hygiene and Ecology of IOZ
Discipline: Hygiene
Specialty in the specialty 31.05.03 Dentistry, orientation (profile) Dentistry
Academic year: 20__-20__

Examination ticket No. 5

1. Human energy balance, types of energy costs. Rationing of nutrition of persons of the 1st professional group.
2. The content of fluoride in the drinking water of the Volgograd region. The effect on the body of low fluoride content in drinking water, prevention.
3. Factors of the labor process that characterize the severity of labor. Prevention of overwork. Recommended working position for dentists.

M.P. Head of the Department

_____ N.I. Latyshevskaya

Full information about evaluation tools for certification

<https://elearning.volgmed.ru/mod/folder/view.php?id=253440>

Considered at the meeting of the department of General hygiene and ecology IPH may, 24, 2023, protocol No 9.

Head of the Department



N.I. Latyshevskaya