



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education  
**Far Eastern Federal University**  
(FEFU)  
INSTITUTE OF LIFE SCIENCES AND BIOMEDICINE (SCHOOL)

VALUATION FUND

*in the discipline (module) "Health technology assessment"*

*Area of study 32.04.01 Public Health*

*Master's program "Leadership and governance in public health" (program in  
English for foreign citizens)*

Vladivostok 2023

Professional competencies of graduates and indicators of their achievement:

Task type	Code and name of professional competence (result of mastering)	Code and name of the competency indicator
Organizational and managerial	PC-4 Ability to analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and implement a quality management system in a medical organization, prepare a justification for the volume of medical care in accordance with the resources of the medical organization and the needs of the population	PC-4.1 Knows the methodology for a comprehensive assessment of the results of a medical organization's activities PC-4.2 Is able to develop and select the optimal areas of activity of a medical organization PP-4.3 Possesses skills of a systematic approach in the development of development plans
Organizational and managerial	PC-6 Ability to develop plans and programs, form a system of indicators for the activities of a medical organization, assess the effectiveness of the activities of a medical organization, develop options for management decisions and assess the risks associated with their implementation	PC-6.1 Knows the peculiarities of the formation of the system of indicators of a medical organization PC-6.2 Is able to assess the effectiveness of the activities of a medical organization, taking into account the formed system of indicators PC-6.3 Possesses the skills of forming performance indicators, assessing their effectiveness, as well as the ability to develop management decisions with an assessment of the risks associated with their implementation

Code and name of the competency indicator	Name of the assessment indicator (the result of learning in the discipline)
PC-4.1 Knows the methodology for a comprehensive assessment of the results of a medical organization's activities	Knows the methodology for a comprehensive assessment of the results of the activities of a medical organization Able to conduct a comprehensive assessment of the results of the activities of a medical organization Possesses the skill of conducting a comprehensive assessment of the results of the activities of a medical organization
PC-4.2 Is able to develop and select the optimal areas of activity of a medical organization	Knows the optimal areas of activity of a medical organization Able to develop and select the optimal areas of activity of a medical organization Possesses the skill of developing the optimal direction of the medical organization's activities

PP-4.3 Possesses skills of a systematic approach in the development of development plans	Knows a systematic approach to the development of plans for the development of a medical organization Knows how to develop Possesses the skills of a systematic approach to the development of development plans
PC-6.1 Knows the peculiarities of the formation of the system of indicators of a medical organization	Knows the specifics of the formation of the system of indicators of a medical organization Able to form and fulfill the indicators of a medical organization Possesses the skill of forming and fulfilling the indicators of a medical organization
PC-6.2 Is able to assess the effectiveness of the activities of a medical organization, taking into account the formed system of indicators	Knows the main performance indicators of a medical organization Is able to assess the effectiveness of a medical organization, taking into account the formed system of indicators Possesses the skill of assessing the effectiveness of the activities of a medical organization, taking into account the formed system of indicators
PC-6.3 Possesses the skills of forming performance indicators, assessing their effectiveness, as well as the ability to develop management decisions with an assessment of the risks associated with their implementation	Knows the main performance indicators of a medical organization Is able to generate performance indicators, assess their effectiveness, and assess the risks associated with their implementation Possesses the skills of forming performance indicators, assessing their effectiveness, as well as the ability to develop management decisions with an assessment of the risks associated with their implementation

## MONITORING THE ACHIEVEMENT OF THE COURSE OBJECTIVES

Item No.	Supervised modules/sections/topics of the discipline	Codes and Stages of Competency Formation			Valuation Tools - Name	
					Current control	Intermediate Certification
1	National Standard of the Russian Federation. Evaluation medical technologies. Application domain. Regulatory documents. Types of	PP-6.1; PC-6.2; PP-6.3; PP-4.1; PP-4.2; PC-4.3	Knows:	Fundamentals of Health Technology Assessment	UO-1 interview, Abstract PR-4	Credit Questions 1-4
			Can	organize and evaluate technologies used in health care to provide high-quality medical care to the population;	PR-1 tests, typical calculations	

	Medical Technologies		Owns	the ability to identify the quality of medical care based on the results of the assessment and use databases to find evidence of the validity of the decisions made	UO-1 Interview PR-1 Tests	
2	Aims and Objectives of Medical Technology Assessment. Organization of Medical Technology Assessment	PP-6.1; PC-6.2; PP-6.3; PP-4.1; PP-4.2; PC-4.3	Knows	Medical Technology Assessment Body	UO-1 interview, Abstract PR-4	Credit Questions 5-8
			Can	Establish a Medical Technology Assessment Working Group	PR-1 tests, typical calculations	
			Owns	Medical Records and Methods of Performance Evaluation	UO-1 Interview PR-1 Tests	
3	Medical Technology Assessment Procedure	PP-6.1; PC-6.2; PP-6.3; PP-4.1; PP-4.2; PC-4.3	Knows	Stages of Medical Technology Assessment	UO-1 interview, Abstract PR-4 PR-1 tests, typical calculations	Credit Questions 9-12
			Can	Use Medical Technology Assessment Topic Selection	UO-1 Interview PR-1 Tests	
			Owns	Medical Technology Assessment Plan (Protocol)	UO-1 interview, Abstract PR-4	
4	Evaluation of the scientific validity of the results of studies on the efficacy, efficacy and safety of medical technology	PP-6.1; PC-6.2; PP-6.3; PP-4.1; PP-4.2; PC-4.3	Knows	External and internal validity of studies	UO-1 interview, Abstract PR-4	Credit Questions 13-16
			Can	Apply Medical Technology Clinical Research Design	PR-1 tests, typical calculations	
			Owns	Methods of clinical and economic research, analysis and modeling	UO-1 Interview PR-1 Tests	
5	Synthesis and evaluation of medical	PP-6.1; PC-6.2; PP-6.3;	Knows	Rules for summarizing	UO-1 interview,	Credit Questions 17-20

	technology information	PP-4.1; PP-4.2; PC-4.3		information about medical technology	Abstract PR-4	
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**Scale for assessing the level of competence formation  
in the discipline "Health technology assessment"**

Code and Competency Statement	Stages of competence formation		Criteria	Indicators	Points
PC-4 Ability to analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and implement a quality management system in a medical organization, prepare a justification for the volume of medical care in accordance with the resources of the medical organization and the needs of the population	Knows (Threshold)	Fundamentals of planning and organization of measures to ensure the protection of public health in accordance with the resources of the medical organization and the needs of the population	Knowledge of the basics of planning and organizing measures to ensure public health in accordance with the resources of the medical organization and the needs of the population	Ability to explain and apply in practice the basics of planning and organizing measures to ensure the protection of public health in accordance with the resources of the medical organization and the needs of the population	61-70
	Can (Advanced)	properly draw up official medical documents, maintain primary medical documentation, carry out measures to ensure health protection, analyze and evaluate the performance of a medical organization	analyze and evaluate the performance indicators of a medical organization, manage the resources of a medical organization, develop and implement quality management systems in a medical organization, justify the volume of medical care in accordance with the resources of the medical organization and the needs of the population	ability to analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and evaluate the performance of a medical organization. implementation of a quality management system in a medical organization in accordance with the resources of the medical organization and the needs of the population	71-84
	Proficient (High)	methods of planning and organizing measures to ensure	Mastery of methods for planning and	ability analysis and evaluation of the	85-100

		the health of the population, developing and implementing a quality management system in a medical organization, preparing a justification for the volume of medical care in accordance with the resources of the medical organization and the needs of the population	organizing measures to ensure public health, analysis and evaluation of performance indicators of a medical organization, management of resources of a medical organization , development and implementation of a quality management system in a medical organization	performance indicators of a medical organization, management of the resources of a medical organization, development and implementation of a quality management system in a medical organization, preparation of justification for the volume of medical care in accordance with the resources of the medical organization and the needs of the population	
PC-6 ability to develop plans and programs, form a system of indicators for the activities of a medical organization, assess the effectiveness of the medical organization, develop options for management decisions and assess the risks associated with their implementation	Knows (Threshold )	Fundamentals of planning and principles of organization and implementation of measures to ensure the protection of public health, the main indicators of the activities of a medical organization	the basics of planning measures to ensure the health of the population and is able to assess the effectiveness of the activities of a medical organization	application of the basics of planning measures to ensure the health of the population, the system of indicators of the activities of a medical organization, taking into account management decisions	65-71
	Can (Advanced )	plan measures to ensure the protection of public health; develop plans and programs, form a system of indicators for the activities of a medical organization	properly execute official medical documents, maintain primary medical records, develop options for management decisions and assess the risks associated with their implementation	realize measures to ensure the protection of public health, to form a system of indicators for the activities of a medical organization, to assess the effectiveness of the activities of a	71-84

				medical organization	
	Proficient (High)	skills in planning, organizing and implementing measures to ensure the protection of public health	skills in preparing the justification of the volume of medical care in accordance with the resources of the medical organization and the needs of the population	substantiation of the scope of medical care in accordance with the resources of the medical organization and the needs of the population, options for management decisions and assessment of risks associated with their implementation	85-100

Scale for assessing the level of achievement of learning outcomes for current and intermediate certification *in the discipline*  
*«Sociology of medicine, human ecology and quality of life»*

<i>Points (rating score)</i>	Levels of achievement Training		<i>Requirements for the formed competencies</i>
	Current & Intermediate certification	<i>Intermediate Attestation</i>	
100 – 86	Increased	"Passed" / "Excellent"	Freely and confidently finds reliable sources of information, operates with the information provided, has excellent skills in analyzing and synthesizing information, knows all the basic methods of solving problems provided for in the curriculum, knows typical mistakes and possible difficulties in solving a particular problem and is able to choose and effectively apply an adequate method for solving a particular problem. trouble
85 – 76	Base	"Passed" / "Good"	In most cases, he is able to identify reliable sources of information, process, analyze and synthesize the proposed information, choose a method for solving a problem and solve it. Makes single serious mistakes in problem solving, experiences difficulties in rare or difficult cases of problem solving, does not know typical mistakes and possible difficulties in solving this or that trouble
75 – 61	Threshold	"Passed" / "Satisfied"	Makes mistakes in determining the reliability of sources of information, is able to correctly decide only Typical most often Occur trouble in (process information, choose a method to solve a problem, and solve it)
60 – 0	Level Not Reached	"Failed" / "Unsatisfactorily"	Does not know a significant part of the program material, makes significant mistakes, performs practical work unconfidently, with great difficulty.



## **Methodological Recommendations Defining the Procedures for Assessing the Results of Mastering the Discipline**

**Current assessment of students.** It is carried out in accordance with the local regulations of FEFU and is mandatory. It is carried out in the form of control measures: defense of a test work, interviews to assess the actual results of students' learning and is carried out by the leading teacher.

The objects of assessment are:

- academic discipline (activity in classes, timeliness of various types of tasks, attendance of all types of classes in the discipline being certified);
- the degree of assimilation of theoretical knowledge (survey);
- the level of mastery of practical skills and abilities in all types of educational work (colloquium);
- results of independent work.

**Intermediate attestation of students.** It is carried out in accordance with the local regulations of FEFU and is mandatory. It provides for the consideration of the results of all stages of the course. Upon successful completion of the two stages of the current certification, the student is given an intermediate certification (test, exam).

**Test and examination materials.** When assessing students' knowledge, the intermediate control takes into account the amount of knowledge, the quality of their assimilation, understanding of the logic of the academic discipline, and the place of each topic in the course. The ability to freely, competently, logically coherently present what has been studied, the ability to defend one's own point of view with arguments are evaluated.

*Certification of* students in the discipline "Health technology assessment" is carried out in accordance with the local regulations of FEFU in the form of a test.

### **I. Assessment Tools for Attestation**

#### **Questions for the test**

1. Basic principles of state policy in the field of public health protection.
2. Public health and health care as a science. History of development, methods, main sections.
3. Healthcare Management. Principles of management, management as a process, management cycle.
4. Legislative Framework of Primary Health Care in Russia.
5. What is evidence-based medicine?
6. Regulatory Framework for the Assessment of Medical Technologies.
7. Types of medical technologies.
8. Types of research (study design).

9. What is a conflict of interest?
10. Citizens' Rights in the Evaluation of Medical Technologies.
11. Cohort study.
12. Experimental study of medical intervention.
13. Experimental study of a diagnostic test.
14. Systematic review, meta-analysis.
15. A study of the evaluation of the results of the use of medical technology by patients.
16. Patient registries.
17. The rights of citizens to information about the state of their health (Constitution of the Russian Federation, Federal Law "On the Fundamentals of Public Health Protection in the Russian Federation").
18. Management, purpose, objectives, role in the health care system.
19. The concept of rational pharmaceutical management.
20. Structure of the Medical Technology Brief Assessment Report.

**Criteria for assigning a grade to a student at the test in the discipline  
"Health technology assessment"**

Assessment of the test	Requirements for the formed competencies
"Passed"	A grade of "passed" is given to a student if he/she knows the material well, presents it competently and to the point, without making significant inaccuracies in answering the question, correctly applies theoretical provisions in solving practical issues and problems, has the necessary skills and techniques for their implementation
"Not passed"	A "failed" grade is given to a student who does not know a significant part of the program material, makes significant mistakes, answers the questions with great difficulty. As a rule, a "failed" grade is given to students who cannot continue their studies without additional classes in the relevant discipline.

**Assessment Tools for Ongoing Attestation**

**Criteria for evaluating the abstract**

- 100-86 points are given to the student if the student expressed his opinion on the formulated problem, argued it, accurately determining its content and components. The data of domestic and foreign literature, statistical data, information of a regulatory and legal nature are given. The student knows and possesses the skill of independent research work on the research topic; methods and techniques of analysis of theoretical and/or practical aspects of the field under study.

- 85-76 points - the work is characterized by semantic integrity, coherence and consistency of presentation; No more than 1 mistake was made in explaining the meaning or content of the problem. For argumentation, the data of domestic and

foreign authors are given. Research skills and abilities have been demonstrated. There are no factual errors related to understanding the problem.

- 75-61 points - the student conducts a fairly independent analysis of the main stages and semantic components of the problem; understands the basic foundations and theoretical justification of the chosen topic. The main sources on the topic under consideration are involved. No more than 2 errors were made in the meaning or content of the problem.

- 60-50 points - if the work is a paraphrase or a completely rewritten source text without any comments or analysis. The structure and theoretical component of the topic are not disclosed. Three or more than three mistakes have been made in the semantic content of the problem being disclosed.