



## **About the approval of the state obligatory standards on levels of education in the field of health care**

Order of the Minister of Health of the Republic of Kazakhstan dated July 4, 2022 No. ҚР ДСМ-63. Registered with the Ministry of Justice of the Republic of Kazakhstan on July 5, 2022 No. 28716

In accordance with paragraph 2 of Article 221 of the Code of the Republic of Kazakhstan "On the health of the people and the healthcare system" and Article 56 of the Law of the Republic of Kazakhstan "On Education" I ORDER:

1. Approve:

- 1) the state obligatory standard of technical and vocational education in accordance with Appendix 1 to this order;
- 2) the state compulsory standard of post-secondary education in accordance with Appendix 2 to this order;
- 3) the state compulsory standard of higher education in accordance with Appendix 3 to this order;
- 4) the state compulsory standard of postgraduate education in accordance with Appendix 4 to this order.

2. Recognize as invalid some orders in the field of healthcare according to the list in accordance with Appendix 5 to this order.

3. The Department of Science and Human Resources of the Ministry of Health of the Republic of Kazakhstan, in accordance with the procedure established by the legislation of the Republic of Kazakhstan, shall ensure:

- 1) state registration of this order with the Ministry of Justice of the Republic of Kazakhstan;
- 2) placement of this order on the Internet resource of the Ministry of Health of the Republic of Kazakhstan;
- 3) within ten working days after the state registration of this order with the Ministry of Justice of the Republic of Kazakhstan, submission to the Legal Department of the Ministry of Health of the Republic of Kazakhstan of information on the implementation of the measures provided for in subparagraphs 1) and 2) of this paragraph.
4. To impose control over the execution of this order on the supervising Vice Minister of Health of the Republic of Kazakhstan.
5. This order comes into force from the date of its first official publication.

## **State obligatory standard of postgraduate education**

### **Chapter 1. General Provisions**

1. This state compulsory standard of postgraduate education (hereinafter referred to as the standard) was developed in accordance with paragraph 2 of Article 221 of the Code of the Republic of Kazakhstan "On the health of the people and the healthcare system" (hereinafter referred to as the Code), article 56 of the Law of the Republic of Kazakhstan "On education" (hereinafter referred to as Law) and defines the requirements for the content of education with a focus on learning outcomes, the maximum volume of the teaching load of students, the level of training of students, the period of study in organizations of higher and (or) postgraduate education (hereinafter - OVPO), national and (or) research centers, scientific -research institutes accredited as residency bases (hereinafter referred to as Research Institutes/NCs), regardless of their form of ownership and departmental subordination.

### **Chapter 2. Requirements for the content of educational programs of postgraduate education in the field of healthcare**

#### **Paragraph 3 Requirements for the content of educational programs of postgraduate education in the field of healthcare in doctoral studies**

52. Theoretical training is 45 academic credits in the total volume of the doctoral educational program and consists of cycles of basic (hereinafter - DB) and major (hereinafter - PD) disciplines, which include disciplines of the university component (hereinafter - VC) and CV, practice. In this case, the ratio of the volume of the DB and PD is determined by the OVPO independently.

53. The list of CV disciplines is determined by the OVPO independently. This takes into account the needs of the labor market, the expectations of employers, the needs and interests of doctoral students.

The programs of disciplines and modules are interdisciplinary and multidisciplinary in nature, providing training at the intersection of a number of areas of knowledge.

54. Personnel training in PhD doctoral studies is carried out on the basis of educational programs of master's and residency programs. At the same time, at the "input", if the profile of the doctoral educational program coincides with the master's program, the learning outcomes of the previous level of education are automatically recognized; in

case of a mismatch between the profile of the doctoral educational program and the master's program, prerequisites for mastering are set for the doctoral candidate.

55. The list of required prerequisites and the terms for their development are determined by the OVPO independently. Prerequisites are mastered on a paid basis.

As prerequisites, the doctoral student submits the results of non-formal education of the appropriate level, the recognition of which is carried out by the VPO in accordance with subparagraph 38-3) of Article 5 of the Law.

56. Upon admission of masters of the profile direction, as well as those who have completed educational programs of continuous integrated education or residency in PhD doctoral studies, they are additionally established as prerequisites the educational program of postgraduate education of the pedagogical profile of the scientific and pedagogical magistracy.

57. The educational program for the preparation of a Doctor of Philosophy (PhD) has a scientific and pedagogical focus and involves fundamental educational, methodological and research training and the study of disciplines in the direction of health care for the system of higher and postgraduate education and the scientific field. The educational program for the preparation of a doctor in the profile involves fundamental educational, methodological and research training and in-depth study of disciplines in the direction of science for the health and medicine industries.

58. The educational program of doctoral studies in terms of professional training is developed on the basis of studying the experience of foreign universities and research centers that implement accredited programs for the preparation of PhD doctors or doctors in their field.

59. Practice is carried out with the aim of developing practical skills in scientific, scientific-pedagogical and professional activities.

The educational program of doctoral studies includes:

- 1) teaching and research practice - for students in the Ph.D. program;
- 2) industrial practice - for students under the profile doctoral program.

60. The scientific component of the educational program of doctoral studies is formed from research (hereinafter referred to as SRW) or experimental research work (hereinafter referred to as EIRD) of a doctoral student, scientific publications, writing and defending a doctoral dissertation.

The volume of research (experimental research) work of a doctoral student is 123 academic credits in the total volume of the doctoral educational program.

61. Within the framework of research and development (EIRD), an individual work plan for a doctoral student to get acquainted with innovative technologies and new types of production provides for a mandatory scientific internship in scientific

organizations and (or) organizations of relevant industries or fields of activity, including abroad.

The terms of passing a foreign internship are determined by the OVPO independently.

62. Requirements for R&D of a PhD student:

- 1) compliance with the main issues of the educational program of doctoral studies, on which the doctoral dissertation is defended;
- 2) relevant and contains scientific novelty and practical significance;
- 3) is based on modern theoretical, methodological and technological achievements of science and practice;
- 4) is based on modern methods of processing and interpreting data using computer technology;
- 5) is performed using modern methods of scientific research;
- 6) contains research (methodological, practical) sections on the main protected provisions.

Requirements for the EIRD of a doctoral student in the profile:

- 1) compliance with the main issues of the educational program of doctoral studies, on which the doctoral dissertation is defended;
- 2) relevant and contains scientific novelty and practical significance;
- 3) is based on modern achievements in science, technology and production and contains specific practical recommendations, independent solutions to management problems of a complex, cross-functional nature;
- 4) is performed using advanced information technologies;
- 5) contains experimental research (methodological, practical) sections on the main protected provisions.

63. Every year, at the end of the academic year, a doctoral student undergoes an academic certification for the implementation of an individual work plan.

64. The completion of a doctoral dissertation is carried out during the research and development period.

The final result of the NIRD is a doctoral dissertation.

65. To supervise a doctoral dissertation, a doctoral student is assigned a scientific supervisor within two months after enrollment in accordance with the qualification requirements of Order No. 391.

The scientific leadership is approved by the order of the rector of the OVPO based on the decision of the collegiate governing body (Academic Council, Academic Council, Senate).

66. Scientific consultants ensure the completion of a doctoral dissertation and the observance of the principles of academic honesty, and the timely submission of a dissertation for defense.

67. The topic of the doctoral dissertation is determined during the first semester and approved by the decision of the Academic Council.

68. The content of the dissertation research is aimed at the implementation of national priorities, state programs, programs of fundamental or applied research.

69. The main results of scientific research of a doctoral student are published in scientific, scientific-analytical and scientific-practical publications in accordance with Order No. 127 "On Approval of the Rules for Awarding Degrees" (registered in the Register of State Registration of Normative Legal Acts under No. 6951) (hereinafter - Order No. 127).

70. Doctoral educational programs are structured according to the principle of modular education.

71. The final certification is 12 academic credits in the total volume of the educational program of doctoral studies and is carried out in the form of writing and defending a doctoral dissertation.

The doctoral dissertation is being tested for the detection of borrowing of the text of other authors, which is carried out by the National Center for State Scientific and Technical Expertise.

72. The purpose of the final certification is to assess the acquired scientific, theoretical, research, analytical level of a doctoral candidate, the formed professional and managerial competencies, the readiness of a doctoral student to independently perform professional tasks, the compliance of his preparation with the requirements of a professional standard and an educational program for doctoral studies.

73. The educational program of continuous postgraduate medical education provides for the development by students of all the required competencies, in accordance with the requirements of the residency, and also includes theoretical training in the amount of 45 credits in accordance with the structure of the educational program of the specialized doctoral studies. EIRD for students is carried out during training under the residency program. The student's individual work plan provides for a mandatory scientific internship in scientific organizations and (or) organizations of relevant industries or fields of activity in the amount of at least 15 credits, including abroad.

### **Chapter 3**

#### **Paragraph 3 Requirements for the volume of the teaching load of students in educational programs of postgraduate education in the field of healthcare in doctoral studies**

85. The study load is measured by the time required by a doctoral student to study an academic discipline, module or the entire doctoral educational program and necessary to achieve the established learning outcomes in the doctoral educational program.

86. The study load includes all the educational activities of a doctoral candidate - lectures, seminars, group classes, practical and laboratory work, industrial practice, scientific or professional internship, research work (experimental research work), writing and defending a doctoral dissertation, independent work including under the guidance of a teacher.

87. A doctoral student is trained on the basis of an individual work plan, which is compiled under the guidance of scientific consultants.

88. An individual work plan for a doctoral student is drawn up for the entire period of study and includes the following sections:

- 1) IEP (updated annually);
- 2) research, experimental research work (topic, direction of research, timing and form of reporting);
- 3) practice (program, base, terms and reporting form);
- 4) the topic of a doctoral dissertation with justification and structure;
- 5) a plan for the implementation of a doctoral dissertation;
- 6) a plan for scientific publications and internships, including foreign ones.

89. When determining the teaching load of a doctoral student, it is assumed that the academic year consists of academic periods, the forms of which (semester - 15 weeks, trimester - 10 weeks, quarter - 7-8 weeks) are determined by the OVPO independently, taking into account the period of final certification (at graduation course).

90. The full academic load of one academic year corresponds to 60 academic credits and corresponds to 1800 academic hours for one academic year. At the same time, during one semester, a doctoral student masters 30 academic credits.

91. One academic credit corresponds to 30 academic hours.

92. A doctoral student acquires less or more academic credits per semester. For certain categories of doctoral students, depending on the form and technology of training, the actual time to achieve learning outcomes differs and is calculated by the OVPE independently.

93. The main criterion for the completion of the educational process for the preparation of Doctors of Philosophy (PhD) (doctor in the field) is the development by a doctoral candidate of at least 180 academic credits, including all types of educational and scientific activities.

The educational program of continuous postgraduate medical education, which includes residency and doctoral programs in clinical profile, includes at least 60 credits in addition to the term established by the residency TUPL.

In case of early mastering of the educational program of doctoral studies and successful defense of the dissertation, the doctoral student is awarded the degree of Doctor of Philosophy (PhD) (doctor in the field) regardless of the period of study.

#### **Chapter 4. Requirements for the level of training of students in educational programs of postgraduate education in the field of health**

##### **Paragraph 3 Requirements for the level of training of students in educational programs of postgraduate education in the field of healthcare in doctoral studies**

102. The requirements for the level of training of a doctoral student are determined on the basis of the Dublin Descriptors of the third level of higher education and reflect the acquired competencies, expressed in the achieved learning outcomes.

103. Descriptors of the third level within the Comprehensive Framework of Qualifications of the European Higher Education Area reflect learning outcomes that characterize the ability of the student to:

- 1) demonstrates a systematic understanding of the field of healthcare in the field of his qualification, possesses the skills and research methods used in this field;
- 2) uses specialized knowledge to critically analyze, evaluate and synthesize new complex ideas that are at the forefront of healthcare;
- 3) conducts independent research and works for a scientific result, shows a steady interest in the development of new ideas and projects leading to the emergence of new technologies in the field of healthcare;
- 4) participates orally or in writing in professional discussions, publishes research results in international academic publications;
- 5) generates ideas, predicts the results of innovative activities, promotes the advancement in the academic and professional context of the technological, social or cultural development of a knowledge-based society;
- 6) demonstrates leadership qualities, innovation and independence in work and study activities in new contexts that require solving problems associated with many interrelated factors;
- 7) communicates on topics in his area of competence with peers in status, with the broad scientific community and society;
- 8) demonstrates self-reflection skills, commitment to lifelong learning and experience for teaching at the undergraduate and postgraduate levels.

104. Persons who have mastered the educational program of doctoral studies and defended a doctoral dissertation, with a positive decision of the dissertation councils of the OVPO with a special status or the Committee for Quality Assurance in Education

and Science of the Ministry of Education and Science of the Republic of Kazakhstan, based on the results of the examination, are awarded the degree of Doctor of Philosophy (PhD) or doctor in the profile and a diploma is issued in accordance with order No. 127.

105. Persons who have received a PhD degree, in order to deepen scientific knowledge, solve scientific and applied problems on a specialized topic, carry out a post-doctoral program or conduct scientific research under the guidance of a leading scientist of the chosen OVPO.

A graduate of a specialized doctoral program is engaged in scientific and pedagogical activities while mastering a cycle of disciplines of a pedagogical profile and passing pedagogical practice. This cycle is mastered during an additional academic period (if not provided for by the educational program of doctoral studies), upon completion of which he is issued an appropriate certificate for the main diploma.

106. A doctoral student who has mastered the full course of theoretical study of the doctoral educational program, but has not completed NIRD (EIRD), is given the opportunity to re-master academic credits of NIRD (EIRD) and defend a dissertation in subsequent years on a paid basis.

A doctoral student who has mastered the full course of theoretical training of the doctoral educational program, completed research and development work (EIRD), but did not defend a doctoral dissertation, is awarded learning results and academic credits and is given the opportunity to defend a dissertation within one year after graduation on a free basis, and in subsequent years on a paid basis basis in the amount of at least 4 academic credits.

At the same time, after 3 years after graduation, a doctoral student is allowed to defend only after the re-approval of the scientific justification of the dissertation research (research proposal) on a paid basis.

#### **Chapter 5**

#### **Paragraph 3 Requirements for the terms of study of students in educational programs of postgraduate education in the field of healthcare in doctoral studies**

110. The term of doctoral studies is determined by the amount of mastered academic credits. Upon mastering the established amount of academic credits and achieving the expected learning outcomes for obtaining a Doctor of Philosophy (PhD) degree or by profile, the doctoral educational program is considered to be fully mastered.

111. Doctoral training is carried out on the basis of master's and residency educational programs with a training period of at least three years.

Application  
to the state  
generally binding standard  
postgraduate education



**Requirements for the volume of the teaching load of programs in the medical specialties of residency**

No.	Name of disciplines and activities	Volume of academic hours (credits)		
		2 years of study	3 years of study	4 years of study
1	2	3	4	5
1	Cycle of major disciplines	4020/134	6060/202	8100/270
1)	Required Component	3900/130	5820/194	7740/258
2)	Selectable Component	120/4	240/8	360/12
2	Intermediate certification *	120/4	180/6	240/8
3	Final examination *	60/2	60/2	60/2
	Total	4200/140	6300/210	8400/280

Note:

\* The number of academic hours (credits) allocated for intermediate and final certification are included in the total labor intensity.

Annex 5 to the order  
Minister of Health  
Republic of Kazakhstan  
July 4, 2022  
№ KP DSM-63

**List of invalidated certain orders in the field of health**

1. Order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state mandatory standards and standard professional training programs for medical and pharmaceutical specialties" (registered in the Register of State Registration of Normative Legal Acts under No. 12007).
2. Order of the Minister of Health and Social Development of the Republic of Kazakhstan dated July 29, 2016 No. 661 "On amendments and additions to the order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state compulsory standards and model professional curricula in medical and pharmaceutical specialties" (registered in the Register of State Registration of Normative Legal Acts under No. 14246).
3. Order of the Minister of Health of the Republic of Kazakhstan dated June 29, 2017 No. 471 "On amendments and additions to the order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state compulsory standards and standard professional training programs for medical and pharmaceutical specialties" (registered in the Register of State Registration of Regulatory Legal Acts under No. 15362).
4. Order of the Minister of Health of the Republic of Kazakhstan dated July 17, 2017 No. 530 "On amendments and additions to the order of the Acting Minister of Health

and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state compulsory standards and standard professional training programs for medical and pharmaceutical specialties" (registered in the Register of State Registration of Regulatory Legal Acts under No. 15382).

5. Clause 2 of the order of the Minister of Health of the Republic of Kazakhstan dated October 11, 2018 No. ҚР DSM-26 "On amendments and additions to the order of the Minister of Health of the Republic of Kazakhstan dated April 14, 2017 No. 165 "On approval of Model programs for advanced training and retraining of medical and pharmaceutical Personnel" and in the order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647 "On approval of state mandatory standards and standard professional training programs for medical and pharmaceutical specialties" (registered in the Register of State Registration of Regulatory Legal Acts under No. 17684 ).

6. Order of the Minister of Health of the Republic of Kazakhstan dated February 21, 2020 No. KR DSM-12/2020 "On Amendments to the Order of the Acting Minister of Health and Social Development of the Republic of Kazakhstan dated July 31, 2015 No. 647" On approval of state compulsory standards and standard professional training programs in medical and pharmaceutical specialties" (registered in the Register of State Registration of Normative Legal Acts under No. 20071).