Geology and Oil-gas Business Institute named after K. Turyssov
Department of "Geophysics and Seismology"

THE EDUCATIONAL PROGRAM
8D07104 Oil and gas and ore geophysics

Code and classification of the field of education: **8D07 Engineering, manufacturing and construction industries**
Code and classification of training directions: **8D071 Engineering and engineering affairs**
Group of educational programs: **D109 Oil and ore geophysics**
Level based on NQF: 8
Level based on SQF: 8
Study period: 3 years
Amount of credits:180

Almaty 2026

The educational program 8D07104 Oil and gas and ore geophysics was approved at the meeting of the Management Board of Satbayev University
Protocol №5 of 10.03.2026 year

Reviewed and recommended for approval at the meeting of the Educational and Academic Council of K.I.Satbayev Kazakh National Research Technical University
Protocol №8 of 26.02.2026 year

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of K.I. Satbayev Kazakh National Research Technical University
Protocol №3 of 25.12.2026 year

Educational program 8D07104 Oil and gas and ore geophysics was developed and reviewed at the meeting of the Academic Committee
Protocol №5 of 22.12.2025 year

Passport of the educational program

General information

№	Field name	Comments
1	Code and classification of the field of education	8D07 Engineering, manufacturing and construction industries
2	Code and classification of training directions	8D071 Engineering and engineering affairs
3	Educational program group	D109 Oil and ore geophysics
4	Educational program name	8D07104 Oil and gas and ore geophysics
5	Short description of educational program	The content of the doctoral EP in 8D07104 Oil and gas and ore geophysics is built on the basis of the development of a multi-level system of personnel training, fundamentality and quality of training, continuity and continuity of education and science, unity of training, education, research and innovation activities, aimed at maximizing customer satisfaction. A graduate of the doctoral program in the field of preparation Oil and gas and ore geophysics should have an idea of current trends in the development of the geophysical specialty and possess: deep systematic knowledge in the field of geophysical methods of prospecting and exploration of mineral deposits. The educational program of the doctoral program in the direction 8D07104 Oil and gas and ore geophysics provides: - acquisition of in-depth theoretical knowledge and practical skills in the field of fundamental research of the earth's crust, methodologies and methods of conducting onshore and borehole and aerogeophysical research in the search and exploration of mineral deposits - training of highly qualified specialists who are able to apply innovative methods in the search and exploration of mineral deposits; use methods, skills and modern technical means necessary for the identification and exploration of oil and gas prospective structures and deposits of solid minerals; apply methods of system analysis in the evaluation of the obtained geological and geophysical and field-geophysical data; - formation of: a) the ability to find and work with the necessary literature, computer information, databases and other sources of information to solve the tasks; b) teamwork skills, but at the same time to show individuality, and if necessary to solve problems independently; c) to conduct a comprehensive analysis of geological and geophysical data and monitoring of geophysical work, as well as to make management decisions based on their results; - formation of industrial and ethical responsibility, the ability to understand the problem and to work together

		with various specialists, to find optimal solutions, the need to improve their knowledge and skills.
6	Purpose of the EP	To train highly qualified scientific, pedagogical, and research personnel (PhD) capable of independent generation of new knowledge, conducting professor-instructional activities, and developing innovative geophysical technologies for the efficient and sustainable development of oil, gas, and ore deposits
7	Type of EP	Acting EP
8	The level of the NQF	8
9	The level of the IQF	8
10	Distinctive features of the EP	no
11	Form of training	full - time
12	Duration of training	3
13	Volume of loans	180
14	Languages of instruction	Russian, Kazakh, English
15	Academic degree awarded	Doctor of Philosophy PhD
16	Developer(s) and authors:	1) Professor Abetov A.E. 2) Associate Professor Umirova G.K.