



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

**EDUCATIONAL PROGRAM  
7M07105 Oil and gas and ore geophysics**

Code and classification of the field of education: 7M07 Engineering, manufacturing and construction industries

Code and classification of training areas: 7M071 Engineering and engineering affairs

Group of educational programs: M109 Oil and ore geophysics

The level of the NQF: 7

The level of the IQF: 7

Duration of training: 2 years

Volume of credits: 120

**Almaty 2025**

Reviewed and recommended for approval at a meeting of the Educational and






Methodological Council of NJSC "Kazakh National Research Technical University named after K.I.Satpayev".

Protocol No. 10 of March 6, 2025.






The educational program 6B07201 Oil and gas and ore geophysics was approved at the meeting of the Scientific Council of NJSC "Kazakh National Research Technical University named after K.I.Satpayev".

Protocol No. 3 of December 20, 2024.

The educational program 7M07105 Oil and gas and ore geophysics was developed by the academic committee in the field of training: 7M071 «Engineering and engineering trades»

| Full name                      | Academic degree/ academic title                 | Position   | Workplace   | Signature   |
|--------------------------------|---|--|---|---|
| <b>Teaching staff:</b>         |   |  |   |   |
| Ratov Boranbay Tovbasarovich   | Doctor of Technical Sciences                    | Head of the Department of "Geophysics and Seismology " | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |   |
| Abetov Auez Egemberlyevich     | Doctor of Geological and Mineralogical Sciences | Professor  | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |
| Umirova Gulzada Kubashevna     | Doctor of PhD                                   | Associate Professor                                    | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |
| Togizov Kuanysh Serikkhanovich | Doctor of PhD                                   | Professor  | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |
| Aliakbar Madiyar Manarbekuly   | Master of Technical Sciences                    | Senior lecturer  | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |
| <b>Employers:</b>              |   |  |   |   |

NON-PROFIT JOINT STOCK COMPANY «K.I.SATPAYEV KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY»

|                                  |                                 |   |   |   |
|----------------------------------|---------------------------------|---|---|---|
| Khitrov Dmitry Mikhailovich      | Candidate of Technical Sciences | Manager of the company's data processing center | «PGS Kazakhstan LLP»  |  |
| Kurmanov Baurzhan Koptleuovich   | Master of Technical Sciences    | General manager                                 | OPTIMUM Design Institute LLP  |  |
| <b>Students</b>                  |                                 |   |   |   |
| Daurbayeva Gulbanu Khamitovna    | Master of Technical Sciences    | 1 <sup>st</sup> year doctoral student           | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |
| Muzapparova Akerke Bakbergenovna | Master of Technical Sciences    | 1 <sup>st</sup> year doctoral student           | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |
| Kirsanova Ekaterina              | Master of Technical Sciences    | 1 <sup>st</sup> year doctoral student           | NJSC "Kazakh National Research Technical University named after K.I.Satpayev" |  |

## General information

| <b>№</b> | <b>Field name</b>                                 | <b>Comments</b>   |
|----------|---|---|
| 1        | Code and classification of the field of education | 7M07 Engineering, Manufacturing and Civil engineering   |
| 2        | Code and classification of training directions    | 7M071 Engineering and engineering trades  |
| 3        | Educational program group                         | M109 Oil and ore geophysics   |
| 4        | Educational program name                          | 7M07105 Oil and gas and ore Geophysics  |
| 5        | Short description of the educational program      | <p>It is intended for the implementation of specialized training of masters in EP 7M07105 "Oil and gas and ore geophysics" NPJS KazNRTU named after K.I. Satpayev.</p> <p>It is aimed at providing 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 geophysical research in the search and exploration of mineral deposits.</p> <p>A graduate of the department under the master's degree program should know: the goals and objectives of geophysics in the system of Earth sciences; be aware of the social significance of his future profession, have high motivation to perform professional activities; be able to assess the capabilities of each geophysical method and navigate in the conditions of applicability of individual methods; have the skills to work with geophysical equipment and geophysical data and have computer skills as a means of information management. Demonstrate the ability to participate as part of a research team in the preparation of reports, abstracts, bibliographies on the subject of scientific research, in the preparation of publications; willingness to work with geophysical data, field and laboratory geophysical instruments, installations and equipment. Apply in practice methods of collection, processing, analysis and generalization of stock, field and laboratory geological and geophysical information (in accordance with the profile of training); participate in the organization of scientific and practical seminars and conferences.</p> |
| 6        | Purpose of the EP                                 | Training of specialists in oil and gas and ore geophysics with an international level of competence, capable of solving complex problems of prospecting and development of mineral deposits, using innovative methods, technologies and modern software for geophysical research with an emphasis on sustainable and responsible use of natural resources, taking into account environmental standards, social factors and principles of long-term sustainable development.   |
| 7        | Type of EP  | New EP  |
| 8        | The level based on NQF                            | 7   |
| 9        | The level based on IQF                            | 7   |
| 10       | Distinctive features of EP                        | no  |
| 11       | Education from                                    | full - time   |
| 12       | Period of training                                | 2   |
| 13       | Amount of credits                                 | 120   |

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|----|---------------------------|--|
| 14 | Languages of instruction  | Kazakh, russian, english                               |
| 15 | Academic degree awarded   | Master of Engineering Science                          |
| 16 | Developer(s) and authors: | Professor Abetov A.E., Associate professor Umirova G.K |