



**K.Turysov Institute of Geology and Oil and Gas Engineering  
Department of Petroleum Engineering**

**EDUCATIONAL PROGRAM  
6B07222 Drilling of oil and gas wells**

Code and classification of the field of education: 6B07 Engineering, manufacturing and construction industries

Code and classification of training areas: 6B072 Industrial and manufacturing branches

Group of educational programs: B071 Mining and mineral extraction

NRK Level: 6

ORC Level: 6

Duration of training: 4

Volume of credits: 240

**Almaty 2025**

## NON-PROFIT JOINT STOCK COMPANY

“KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I. SATBAYEV”









The educational program B071 Drilling of oil and gas wells was approved at the meeting of the Scientific Council of KazNITU named after K.I.Satpayev.

Protocol №17 from «18» 06. 2025 y.



Reviewed and recommended for approval at a meeting of the Educational and Methodological Council of Kazntu named after K.I.Satpayev.

Protocol №7 from «10» 06. 2025 y.

The educational program\_6B07222 Drilling of oil and gas wells was developed by the academic committee in the direction of 6B072 «Industrial and manufacturing branches»

Last name, First name	Academic degree/ academic title	Post	Place of work	Signature
<b>Teaching staff:</b>				
Ratov Boranbai Tovbasarovich	Doctor of Technical Sciences	Head of the Department of Geophysics and Seismology, Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Abetov Auez Egemberdievich	Doctor of Geological and Mineralogical Sciences	Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Umirova Gulzada Kubashevna	Doctor of PhD	Associate Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Togizov Kuanysh Serikkhanovich	Doctor of PhD	Professor	Kazakh National Research Technical University named after K.I.Satpayev	
Aliakbar Madiyar Manarbekuly	Master of Technical Sciences	Senior Lecturer	Kazakh National Research Technical University named after K.I.Satpayev	
<b>Employers:</b>				
Khitrov Dmitry Mikhailovich	Candidate of Technical Sciences	Manager of the company's data processing center	PGS Kazakhstan LLP	
Kurmanov Baurzhan	Master of Technical Sciences	Director	Optimum Scientific Research Institute	
<b>Students</b>				
Muzapparova Akerke Bakbergenovna	Master of Technical Sciences	1st year doctoral student	Kazakh National Research Technical University named after K.I.Satpayev	

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Daurbayeva Gulbanu Khamitovna	Master of Technical Sciences	1st year doctoral student	Kazakh National Research Technical University named after K.I.Satpayev	
Kirsanova Ekaterina		1st year Master's student	Kazakh National Research Technical University named after K.I.Satpayev	

### General information

№	Field name	Note
1	Code and classification of the field of education	6B07 Engineering, manufacturing and construction industries
2	Code and classification of training areas	6B072 Manufacturing and processing industries
3	Educational program group	B071 Mining and quarrying
4	Educational program name	6B07222 Drilling of oil and gas wells
5	Short description of educational program	It is intended for the implementation of specialized bachelor's degree training in the educational program "Oil Drilling" at Satbayev University. The educational program trains highly qualified specialists in the field of oil and gas drilling who are able to efficiently and safely explore, develop and operate hydrocarbon deposits using modern technologies and observing the principles of environmental responsibility. The program trains specialists who are able to design, plan and carry out drilling operations taking into account geological and technical conditions. The educational program provides training for highly qualified and competitive specialists who are in demand on the labor market in the oil and gas industry. The program combines fundamental education with practical training, which allows graduates to successfully solve complex problems and contribute to the development of the oil and gas sector. • Training of highly qualified specialists in the field of oil drilling with theoretical knowledge and practical skills for effective design, organization and execution of drilling operations, as well as to ensure the safety and environmental sustainability of hydrocarbon extraction processes. The program is aimed at developing students' skills in working with modern drilling technologies, analyzing geological and engineering data, as well as developing the ability to solve complex problems in a dynamically developing oil and gas industry.
6	Purpose of (EP)	Training of highly qualified specialists in the field of oil and gas well drilling, possessing theoretical knowledge and practical skills for the effective design, organization and execution of drilling operations, with an emphasis on safety, environmental sustainability and minimization of environmental impacts based on skills in working with modern drilling technologies, analysis of geological and engineering data and independent solution of complex problems, taking into account the principles of sustainable use of natural resources, compliance with international environmental standards and inclusive education
7	Type of EP	New
8	The level based on NQF	6
9	The level based on IQF	6
10	Distinctive features of EP	no
11	Education form	full - time
12	Period of training	4 years
13	Amount of credits	240

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14	Languages of instruction	Kazakh, russian, english
15	Academic degree awarded	Bachelor of Engineering and Technology
16	Developer(s) and authors:	Ratov B.T., Muratova S.K., Smashov N.Zh., Omirzakova E.Zh., Arshidinova M.T.