



**Mining and Metallurgical Institute named after O.A. Baikonurov  
Department of Chemical Processes and Industrial Ecology**

**EDUCATIONAL PROGRAM  
8D07117 Innovative chemical processes and materials**

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: **D097 Chemical Engineering and Processes**

Level based on NQF: **8**

Level based on IQF: **8**

Study period: **3**










Amount of credits: **180**

**Almaty 2025**

Educational program «8D07117 Innovative chemical processes and materials» was approved at the meeting of K.I. Satbayev KazNRTU Academic Council Minutes # 10 dated «06» March 2025.

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council Minutes # 3 dated «20» December 2025.

Educational program «8D07117 Innovative chemical processes and materials» was developed by Academic committee based on direction «8D071 Engineering and engineering affairs»

Full name	Academic degree/ academic title	Position	Workplace	Signature
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## General information

<b>№</b>	<b>Field name</b>	<b>Comments</b>
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	D097 Chemical Engineering and Processes
4	Educational program name	8D07117 Innovative chemical processes and materials
5	Short description of educational program	The educational program is a set of documents developed by the Kazakh National Research Technical University named after K.I. Satbayev. EP is based on the state compulsory standard of higher and postgraduate education. EP includes goals and objectives, curriculum and content of disciplines, training results of EP and key competencies of the graduate, as well as other materials to ensure quality education.
6	Purpose of EP	Practice-oriented education and training of highly qualified specialists ready for successful implementation of production activities in the field of technical design of innovative products
7	Type of EP	Innovative EP
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	No
11	Education form	Full-time
12	Period of training	3
13	Amount of credits	180
14	Languages of instruction	Russian, Kazakh, English
15	Academic degree awarded	Doctor of Engineering (Industry)
16	Developer(s) and authors	Kubekova Sh., Kapralova V., Kalenova A., Raimbekova A.