



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

**EDUCATIONAL PROGRAM
8D07109 Innovative technologies and new inorganic 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 «8D07109 Innovative technologies and new inorganic 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 «8D07109 Innovative technologies and new inorganic 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

| № | 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 | D097 Chemical Engineering and Processes |
| 4 | Educational program name | 8D07109 Innovative technologies and new inorganic 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 | Training of highly qualified specialists capable of engaging in research and educational activities in the field of chemical technology of inorganic substances and their processed products, competitive both within the country and on the international labor market |
| 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 Philosophy (PhD) |
| 16 | Developer(s) and authors | Kubekova Sh., Kapralova V., Kalenova A., Raimbekova A. |