

## Diploma Supplement Master



### 1. DIPLOMA SUPPLEMENT

<b>1. INFORMATION IDENTIFYING A HOLDER OF THE QUALIFICATION</b>	
1.1. Surname	1.2. First name
1.3. Date of birth	1.4 Student ID number or code(if any)
<b>2. INFORMATION IDENTIFYING THE QUALIFICATION</b>	
2.1. Qualification title (if relevant) and (mother tongue)	2.2 Main direction of training for qualification 7M07162 - Chemical Technology of Inorganic Substances
Master of technical science (Tehnika gylymdarynyn magistri)	
2.3 Name and status of graduating institution (mother tongue)	
M.Auezov South Kazakhstan University (M. Áyezov atyndaǵy Oñústik Qazaqstan ýniversiteti) is a university which has undergone external quality assurance by agency IQAA, that is certified to follow the European Standards and Guidelines [through registration in EQAR and membership in ENQA] in Kazakhstan with satisfactory results	
2.4 Name and status of institution (if differ from p.2.3), managing the research (mothertongue)	2.5 Languages of training / exam English, Russian, Kazakh
See 2.3 above	
<b>3 INFORMATION ABOUT THE LEVEL AND DURATION OF THE QUALIFICATION</b>	
3.1. Qualification level	3.2. Official duration of the program in credits and years
-Level 7 of NQF(see p.8), -Second cycle QF-EHEA/Level 7 EQF	2 years /120 ECTS credits 1 year /60 ECTS credits
3.3. Entrance Requirements	
Bachelor degree	
<b>4. INFORMATION ABOUT THE PROGRAM AND LEARNING OUTCOMES</b>	
4.1. Form of study	4.2. Learning outcomes of the program
Full-time	<p><b>LO1</b>Critically analyze scientific and technical information in the field of chemical engineering, applying knowledge of a foreign language and information resources, summarizing research results in scientific articles, reports and dissertation taking into account principles of scientific ethics.</p> <p><b>LO2</b> Analyze ideological and methodological problems, including of interdisciplinary nature based on provisions of the philosophy of science and research methodology.</p> <p><b>LO3</b> Apply scientific organization of pedagogical activity in higher education demonstrating possession of socio-psychological technologies for managing mass behavior, effective teaching methods in the field of chemical engineering.</p> <p><b>LO4</b> Effectively coordinate a work of enterprise</p>

	<p>departments, showing leadership qualities and critical thinking when making operational management decisions in non-standard situations.</p> <p><b>LO5</b> Organize operational dispatch control of the production process for obtaining inorganic compounds, applying knowledge and skills to analyze problems in interdisciplinary related fields of knowledge.</p> <p><b>LO6</b> Suggest ways to modernize the technological scheme of production, new methods of recycling industrial waste from production of inorganic substances and compounds based on analysis of modern achievements in science and technology.</p> <p><b>LO7</b> Independently plan and carry out scientific research, substantiating and proving research results when discussing with specialists and a wider audience in domestic and international scientific community.</p> <p><b>LO8</b> Analyze the experimental results and results of mass and heat calculations of studied chemical-technological processes using mathematical modeling programs and artificial intelligence to justify the optimal production mode.</p> <p><b>LO9</b> Develop acquired knowledge and skills to a level that allows to study in a doctoral program, to improve qualification lifelong.</p>																																																			
4.3. Information on the program, obtained individual credits, grades / points																																																				
See transcript																																																				
4.4. Assessment system and a table of points distribution, if any	4.5. General classification of qualification (mother tongue) Tehnika gylymdarynyn magistri)																																																			
<table border="1"> <thead> <tr> <th>Local alphabetic system grade</th> <th>Local digital equivalent of a points</th> <th>Percentage</th> <th>Local traditional system grade</th> <th>ECTS grade</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4.0</td> <td>95-100</td> <td rowspan="2">Excellent</td> <td rowspan="2">A</td> </tr> <tr> <td>A-</td> <td>3.67</td> <td>90-94</td> </tr> <tr> <td>B+</td> <td>3.33</td> <td>85-89</td> <td rowspan="2">Good</td> <td rowspan="2">B</td> </tr> <tr> <td>B</td> <td>3.0</td> <td>80-84</td> </tr> <tr> <td>B-</td> <td>2.67</td> <td>75-79</td> <td rowspan="3">Satisfactorily</td> <td rowspan="3">C</td> </tr> <tr> <td>C+</td> <td>2.33</td> <td>70-74</td> </tr> <tr> <td>C</td> <td>2.0</td> <td>65-69</td> </tr> <tr> <td>C-</td> <td>1.67</td> <td>60-64</td> <td rowspan="2">Satisfactorily</td> <td rowspan="2">D</td> </tr> <tr> <td>D+</td> <td>1.33</td> <td>55-59</td> </tr> <tr> <td>D-</td> <td>1.0</td> <td>50-54</td> <td rowspan="3">Unsatisfactorily</td> <td rowspan="3">E</td> </tr> <tr> <td>FX</td> <td>0.5</td> <td>25-49</td> </tr> <tr> <td>F</td> <td>0</td> <td>0-24</td> </tr> </tbody> </table>	Local alphabetic system grade	Local digital equivalent of a points	Percentage	Local traditional system grade	ECTS grade	A	4.0	95-100	Excellent	A	A-	3.67	90-94	B+	3.33	85-89	Good	B	B	3.0	80-84	B-	2.67	75-79	Satisfactorily	C	C+	2.33	70-74	C	2.0	65-69	C-	1.67	60-64	Satisfactorily	D	D+	1.33	55-59	D-	1.0	50-54	Unsatisfactorily	E	FX	0.5	25-49	F	0	0-24	
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<b>5. INFORMATION ABOUT THE QUALIFICATION STATUS</b>																																																				
5.1. Access to further education	5.2. Access to professional status (if relevant)																																																			
Master degree entitles their holders to be admitted to doctoral study programs																																																				
<b>6. ADDITIONAL INFORMATION</b>																																																				

6.1. Additional Information		6.2. Other information sources	
		About educational program, use: <a href="https://auezov.edu.kz">https://auezov.edu.kz</a> About system of education, use: <a href="http://www.enic-naric.net/kazakhstan.aspx">http://www.enic-naric.net/kazakhstan.aspx</a> <a href="https://www.gov.kz/memleket/entities/sci?lang=r">https://www.gov.kz/memleket/entities/sci?lang=r</a> <a href="https://enic-kazakhstan.edu.kz">u https://enic-kazakhstan.edu.kz</a>	
<b>7. CERTIFICATION OF APPLICATION</b>			
7.1. Date		7.2. Signature	
7.3. Status (Rector)		7.4. Official seal	
<b>8. INFORMATION ABOUT NATIONAL HIGHER EDUCATION SYSTEM</b>			
<p><b>Secondary education in Kazakhstan</b></p> <p>Secondary education in Kazakhstan is mandatory and includes general primary, basic secondary, general secondary, technical and vocational education. For the first grade 6-7 years old children are accepted. Secondary education in Kazakhstan has three stages: primary (1-4 grades), basic (5-9 grades) and senior (10-11 grades). There are educational programs are created that are implemented in special schools for the fullest development of the potential opportunities of gifted children. Technical and vocational education is provided for 3-4 years in colleges and schools on the basis of general education on a competitive basis.</p> <p><b>Higher Education in Kazakhstan</b></p> <p>Higher Education in Kazakhstan is acquired on the basis of secondary education. School-leavers pass final and entrance exams in the form of a unified national test (UNT) or complex testing (for school-leavers of previous years) for admission to the university. After graduating HEI graduate receives a bachelor's or specialist degree. Second higher education in Kazakhstan is conducted only on a fee basis with accelerated training period of training.</p> <p><b>Postgraduate education in Kazakhstan</b></p> <p>To receive a postgraduate education in Kazakhstan it is necessary a bachelor's or master's degree. Training of scientific personnel is conducted in master and PhD doctoral education of universities. Kazakh citizens on a competitive basis have the right to be awarded the international "Bolashak" scholarship to study abroad. The duration in master education is 1-2 years, in PhD doctoral - 3 years.</p> <p>In the Republic of Kazakhstan higher education institutions may be public and private. Nazarbayev University is recognized as the autonomous institution of education.</p> <p><b>Degrees and qualifications</b></p> <p>Degrees and qualifications in higher education and post-graduate education are awarded in accordance with the level of National framework of qualifications of the Republic of Kazakhstan, which is comparable to the European framework of qualifications.</p> <p><b>Quality Assurance System</b></p> <p>In Kazakhstan, all universities, regardless of their form of ownership, type and status undergo state control that is implemented in the form of: 1) state certification of educational institutions; 2) monitoring of the compliance with</p>			

the legislation of the Republic of Kazakhstan on education and qualification requirements for educational activities.

1. State certification is a procedure performed by education authorities once every 5 years in order to monitor observance of the educational services provided by educational organizations, requirements of State and compulsory standards of education (SCSE). SCSE determines the range of general requirements for each level of education to the content of education, to the maximum amount of academic load of students, to the training level of trainees and the level of training and is mandatory for all educational institutions regardless of ownership, types and kinds.

2. Monitoring of educational institutions on observance of the legislation of the Republic of Kazakhstan on education and licensing is conducted in the form of inspection and other forms.

In addition to the state control in Kazakhstan functions the system of natural recognition of the quality of education, which operates in the form of independent accreditation of universities and (or) educational programs implemented by them. Accreditation of educational institutions present itself a recognition procedure by accrediting body a compliance of educational services with established standards (regulations) of accreditation with the purpose of providing the publicity of objective information about their quality and confirming the presence of effective mechanisms for its increase. Educational institutions are eligible to voluntarily undergo the national and international institutional, specialized accreditation in accreditation bodies entered in the register of the authorized body in the sphere of education. Educational institutions that have passed institutional and specialized accreditation procedures are exempt from state certification by the accredited educational programs (specialties) for a period of accreditation, but not more than 5 years.

#### **Credit system**

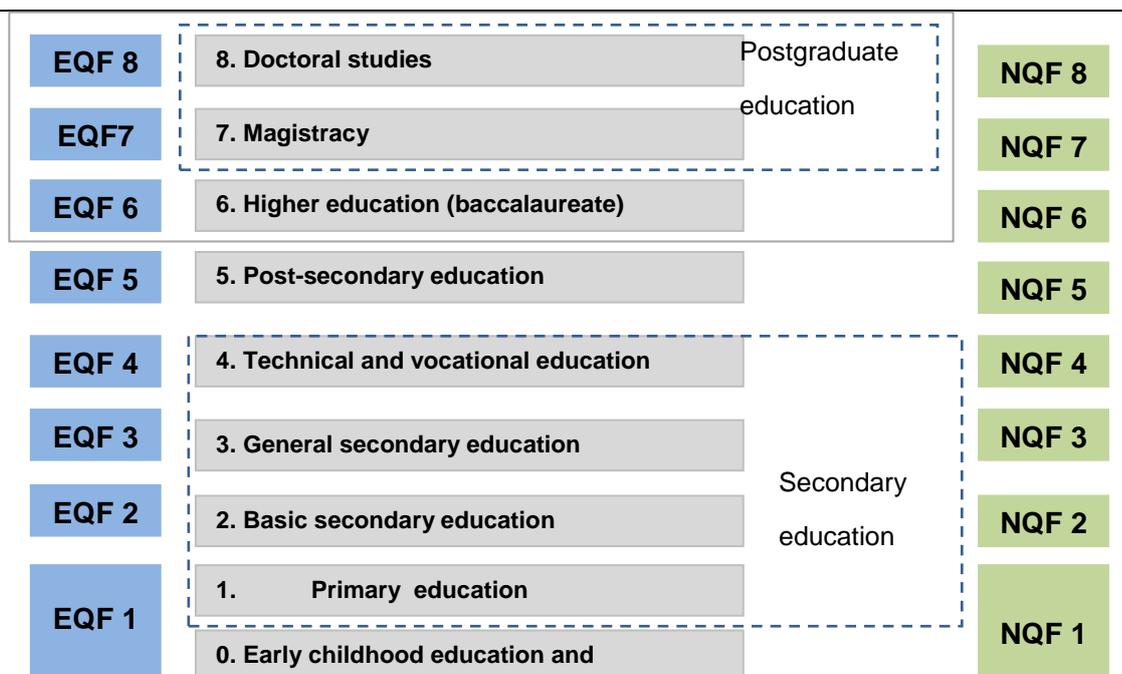
Since 2004, the credit technology of training are introduced into all higher education institutions of the republic that involves the training on the basis of self-selection and planning of study subjects sequence by students using credit as a unified unit of training volume measure of the learner and the teacher.

In 2018 Kazakhstan adopted new academic credits. A workload of one Kazakh academic credit (30 academic hours) corresponds to 1 ECTS-credit (25-30 academic hours).

### **Education system of the Republic of Kazakhstan**

The system of higher and postgraduate education of the Republic of Kazakhstan

EQF level	NQF level	levels/cycles	Study period, year	Credit volume		Type of document
				RK	ECTS	
6	6	Bachelor	4	240	240	Diploma
		Special higher education	5	300	300	
7	7	Specialized magistracy	1-1,5	60-90	60-90	Diploma
		Scientific-and-pedagogical magistracy	2	120	120	
8	8	Doctorate	3	180	180	Diploma



### Information sources

In the given document the references to the following documents were used:

1. State compulsory standard of higher and postgraduate education (Approved by an order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated by July 20, 2022 No. 2);
2. National Qualifications Framework (NRK) of the Republic of Kazakhstan, approved by Republican tripartite Commission on social partnership and regulation of social and labor relations from March 16, 2016;
3. Rules for organization of the studying process on credit training technology, approved by an order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011, No. 152, with changes and additions dated by July 25, 2023, No. 334).