



**Institute of Technical Automation and Information Technologies
Department of "Cybersecurity, information processing and storage"**

**EDUCATIONAL PROGRAM
7M06303 INTEGRATED INFORMATION SECURITY**

Code and classification of the field of education: 7M06 Information and communication technologies

Code and classification of training directions: 7M063 Information Security

Group of educational programs: M095 Information Security

Level based on NQF: 7

Level based on IQF: 7

Duration of study: 1

Volume of credits: 60

Almaty, 2025

Educational program 7M06303 Integrated information security was approved at the meeting of K.I. Satbayev KazNRTU Academic Council Minutes No 10 dated «06» 03 2025.

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council Minutes No. 3 dated «20» 12 2024.

Educational program 7M06303 Integrated information security was developed by Academic committee based on direction 7M063 Information security

Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Academic Committee:				
Pokusov Viktor Vladimirovich		Chairman	Kazakhstan Information Security Association	
Teaching staff:				
Aitkhozhayeva Yevgeniya Zhamalkhanovna	Candidate of Technical Sciences, Associate Professor	Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Rakhmetulayeva Sabina Batyirkhanovna	PhD	Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Satybaldiyeva, Ryskhan Zhakanovna	Candidate of Technical Sciences	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Serbin Vassiliy Valerievich	Candidate of Technical Sciences	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Zhumagaliyev Birzhan Izimovich	Candidate of Technical Sciences, Associate Professor	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Alimseitova Zhuldyz Keneskhanovna	PhD	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Yubuzova Khalicha Ibragimovna	PhD	Associate Professor	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Employers:				
Mamyrbayev Orken Zhumazhanovich	PhD, Associate Professor	Deputy General Director	RSE "Institute of Information and Computing Technologies"	

Konysbayev Tuyakuly	Amret	Candidate of Physical and Mathematical Sciences	President	Association of Innovative Companies of the SEZ "PIT"	
Batyrgaliev Bolatkanovich	Askhat	PhD, Associate Professor	Border Service of the National Security Committee, Counterintelligence	Military Unit No. 01068	
Students					
Abilkayyrova Serikkyzy	Alina		3rd-year student	NJSC "K. I. Satbayev Kazakh National Research Technical University"	
Elle Venera			1st-year doctoral student	NJSC "K. I. Satbayev Kazakh National Research Technical University"	

General information

№	Field name	Note
1	Code and classification of the field of education	7M06 Information and Communication Technologies
2	Code and classification of training directions	7M063 Information security
3	Educational program group	M095 Information security
4	Educational program name	7M06303 Integrated information security
5	Short description of educational program	<p>Professional activities of graduates include: education, government and departmental structures, economics and industry of the state, and healthcare.</p> <p>The objects of professional activity of graduates of the master's program include:</p> <ul style="list-style-type: none"> – government bodies; – information security departments and departments of departmental organizations; – information security departments, IT departments and departments of financial organizations; – information security departments, IT departments and departments of industrial enterprises; – departments and departments of information security of government organizations and commercial structures. <p>The main functions of the professional activities of undergraduates are:</p> <ul style="list-style-type: none"> conducting research in the field of information protection and security; audit, vulnerability analysis and incident investigation in information security systems; design, implementation, operation, administration, maintenance and testing of enterprise information security systems. <p>Areas of professional activity are the following:</p> <ul style="list-style-type: none"> – design, development, implementation and operation of information security systems;

		– analysis, testing and identification of system vulnerabilities; – information security audit
6	Purpose of EP	Training highly qualified specialists who can solve problems planning information security audit work, identifying and fixing vulnerabilities, monitoring and investigating information security incidents
7	Type of EP	New EP
8	The level based on NQF	7
9	The level based on IQF	7
10	Distinctive features of the Educational program	The program is aimed at training master’s students capable of solving practical tasks in the field of information security management and developing applied solutions for the protection of information systems. A distinctive feature of the program is the integration of modern international standards, technologies, and best practices, which ensures the development of professional and analytical competencies that meet the requirements of the labor market and the digital economy.
13	Education form	Full – time. online
14	Period of training	1 years old
15	Amount of credits	60
16	Languages of instruction	Russian, Kazakh, English
17	Academic degree awarded	Master of engineering and technology
18	Developer(s) and authors:	Aitkhozhayeva Y. Zh., Satybaldiyeva R.Zh.