

Monitoring updates to educational programs

	Name of educational program	Changes made	Professional Standards, atlas of new professions
1	6B01103 Psychology (IP)	1. In the elective component, based on employer recommendations, the following disciplines have been replaced: "Monitoring and assessment of cognitive activity" has been replaced with "Clinical psychology", "Modern monitoring by psychologists" has been replaced with "Psychosomatics", "Expert activity of a psychologist" has been replaced with "Psychology of trauma and post-traumatic conditions," "Designing an educational environment" has been replaced with "Psychology of aggression and violence," and "Applied research in the field of personal professional growth" has been replaced with "Psychological counseling in crisis situations."	Professional standards for educators in educational organizations
2	6B01203 Preschool Education (IP)	The descriptions of the subjects "Ecology and Life Safety" and "Age and Physiological Characteristics of Child Development" have been revised.	Professional standards for teachers in educational institutions
3	6B01303 Primary Education (IP)	1. The descriptions of the disciplines "Ecology and Life Safety" and "Age and Physiological Characteristics of Child Development" have been revised. 2. Due to the insufficient number of credits for the full mastery of all sections of the discipline and the formation of the corresponding professional competencies, the discipline "Fundamentals of Modern Kazakh (Russian) Language" with a volume of 6 credits was enlarged and divided into "Fundamentals of Modern Kazakh (Russian) Language" 1, 2 with 5 and 3 credits, respectively. 3. The discipline "Methods of Teaching Literacy and Calligraphy" was reduced from 6 to 4 credits 4. As an alternative discipline to "Fundamentals of Modern Kazakh (Russian) Language 2," the discipline "Practicum in Kazakh (Russian) Language" was included .	Professional standards for teachers in educational institutions
4	6B01408 Basic military and physical training	1. In order to synchronize with the pedagogical component of the IP EP, the following changes have been made: the discipline "Physiology of Schoolchildren's Development" has	Professional standards for educators in educational organizations Organization of team and athlete work Instructor-athlete

		<p>been replaced by "Age and Physiological Features of Child Development" (the number of credits has been changed from 5 to 3); the discipline "Fundamentals of Inclusive Education" has been replaced by "Inclusive Educational Environment" (from 5 to 3 credits); the discipline "General and Age Psychology" has been replaced by "Psychology in Education and Concepts of Interaction and Communication" (from 5 to 4 credits); The course "Pedagogy" has been replaced by "The Science of Education and Key Theories of Learning" (from 5 to 3 credits). The course "Theory and Methods of Educational Work" has been replaced by "Pedagogical Research" (from 5 to 4 credits). New subjects have been added: Teaching Planning and Individualization of Learning - 4 credits, Research, Development, and Innovation - 5 credits, Assessment and Development - 4 credits.</p> <p>2. Changes in basic subjects: "Anatomy with the Basics of Sports Morphology" and "Anatomical Anthropology" have been combined into the subject "Human Anatomy" (3 credits); The discipline "Physiological Foundations of Physical Culture and Sports" has been divided into two disciplines: "Human Physiology" (4 credits); "Methods of Physiological Measurement and Control of Physical Activity" (4 credits). The name of the discipline "Therapeutic Physical Culture and Massage" has been changed to "Therapeutic Physical Culture" (from 6 to 5 credits). "Military-Sports Medical Training" has been changed to "Tactical Medicine" (5 credits).</p> <p>3. Changes in the number of credits for core subjects: "Fundamentals of Military Technology," "Sports Games with Teaching Methods (soccer, handball)," "General Military Regulations of the Armed Forces of the Republic of Kazakhstan": reduced from 5 to 4 credits. "Tactical Training": increased from 5 to 6 credits, "Counterterrorism Security and Self-Defense": reduced from 5 to 3 credits, "History of Military Art and the Armed Forces of the Republic of Kazakhstan": increased</p>	
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		<p>from 3 to 4 credits, "Theory and Methods of Teaching Basic Military and Technological Training": reduced from 6 to 5 credits;</p> <p>The discipline "Military Sports Games" has been replaced by "Military Multiathlon";</p> <p>The discipline "Military Engineering Training, Military Topography, Management and Communications" has been divided into two disciplines: "Military Engineering Training and Military Topography" – 6 credits; "Management and Communications" – 3 credits; the following discipline has been included the discipline "Radioecological, Chemical, and Biological Protection" – 5 credits; the disciplines and their alternatives have been excluded: "Fundamentals of Military Psychology and Pedagogy"/"Cyberpedagogy"/"Scientific Research and Creative Work"; "Biomechanics of Movement and Physical Exercise"/"Monitoring of Functional Status and Fitness in Physical Culture and Sports"; "Military and Physical Hygiene"/"Hygiene of Military and Sports Facilities and Objects."</p>	
5	6B01409 Physical Culture and Sports (IP)	<p>1. The number of credits for the following disciplines has been changed: "Athletics with the teaching method", "Methods of teaching physical education" - increased from 6 to 7 credits, "Functional anatomy of humans and physical exercises" - reduced from 7 to 6 credits; "Movable and National Games" - reduced from 6 to 5 credits</p> <p>2. ER 3 has been revised (the phrase "academic integrity" has been added).</p>	<p>Development of Mass Physical Culture and Sports</p> <p>Instructor-athlete</p> <p>Organization of team and athlete work</p> <p>Professional standards for teachers in educational institutions</p>
6	6B01410 Physical education, adaptive physical education, and sports	<p>1. In order to synchronize with the pedagogical component, the following changes have been made to the IP EP: "Physiology of Schoolchildren's Development" has been replaced by the discipline "Age and Physiological Features of Child Development" (the number of credits has been changed from 5 to 3), the discipline "Fundamentals of Inclusive Education" has been replaced by the discipline "Inclusive Educational Environment" (the number of credits has been changed from 5 to 3), "General and Age Psychology" has been replaced with "Psychology in Education and Concepts of Interaction and Communication" (the number of credits has been changed from 5</p>	<p>Organization of team and athlete work</p> <p>Professional standards for educators in educational organizations</p> <p>Instructor-athlete</p>

		<p>to 4), "Pedagogy and Special Education" has been replaced by the course "Science of Education and Key Theories of Learning" (number of credits changed from 5 to 3), "Theory and Methods of Educational Work" has been replaced by the course "Pedagogical Research" (number of credits changed from 5 to 4), the disciplines "Assessment and Development" with 4 credits, "Research, Development, and Innovation" with 5 credits, and "Teaching Planning and Individualization of Learning" with 4 credits have been included.</p> <p>2. The following subjects have been removed from the curriculum: "Management of Physical and Adaptive Culture and Sports" (3 credits), "Sports and Physical Culture and Health Facilities" (3 credits).</p> <p>3. Changes in the number of credits for subjects: Subject "Movable and National Games": volume increased from 5 to 6 credits, "Sports Games with Teaching Methods (basketball, volleyball)", "Sports games with teaching methods (soccer, handball)", "Athletics with teaching methods": volume reduced from 6 to 5 credits, "Monitoring of functional state and preparedness in physical culture and sports", "Martial Arts / Badminton and Tennis": volume increased from 3 to 5 credits, "Pedagogy of Physical and Adaptive Culture and Sports / Cyberpedagogy / Scientific Research and Creative Work": volume reduced from 5 to 4 credits.</p>	
7	6B01413 Music education (IP)	<p>1. The number of credits for the following disciplines has been changed: "Teaching Planning and Individualization of Music Education," "History of Kazakh Music"/"History of World Music," Methods of Working with a School Orchestra from 4 to 3 credits; "Piano 2" has been increased from 2 to 3 credits; "Harmony/Practical Course in Harmonic Analysis," "Music Teacher Project Activities/Guiding Students' Music Research Activities" - from 5 to 3 credits; for the subjects "Voice Training/Vocals 1,2," the number of credits was 4 and 2 credits, changed to 3 credits; "Choir/Vocal Pedagogy Practicum 1,2" had 3 and 2 credits, changed to 5 and 3 credits; "Choir/Working with Children's Choirs</p>	Professional standards for teachers in educational institutions

		<p>3,4" had 2 credits, changed to 3 credits; "Instrumental Mastery/ Instrumental Performance Techniques 3,4" had 2 and 1 credits, changed to 3 credits, "Instrumental Mastery/ Instrumental Performance Techniques 5" had 3 credits, changed to 4 credits</p> <p>2. The discipline "Music Theory 2" was added with a volume of 3 credits</p> <p>3. The subjects "Dombra 1,2" were changed to "Special Musical Instrument 1,2", the subject "Methods of Teaching the Dombra" was replaced by the subject "Methods of Teaching Special Subjects", the subjects "Choral Class and Choir Workshop 3/ Vocal Ensemble 3," "Modeling Conducting Gestures/Choir Mastering Techniques 1,2" have been replaced with the courses "Additional Musical Instrument/Accompanist Class 1,2" for 3 credits, the subjects "Performing Skills of a Music Teacher/Musical Improvisation 1,2" and "Orchestra/Folklore Ensemble 1,2" have been replaced by the subjects "Practicum in School Song Repertoire/ Practice of Performing Children's Songs 1,2" for 3 credits</p> <p>4. The subjects "Choral Conducting 3,4" have been removed due to an increase in the number of credits for the subjects "Choral Conducting 1,2" from 1 credit to 3 credits</p> <p>A check mark has been placed to indicate accreditation</p> <p>The change in the number of credits for subjects in the amount of 1-2 credits is due to the fact that, according to the CTE Rules, the number of credits must be no less than 3 credits</p>	
8	6B01414 Vocational training and entrepreneurship basics (IP)	<p>1. To synchronize with other IP EP, the number of credits for the following disciplines has been changed: Psychology in Education and Concepts of Interaction and Communication - from 5 credits to 4, Science of Education and Key Learning Theories - from 4 to 3, Pedagogical Research - from 5 credits to 4, Research, Development, and Innovation in Art Education (IP) - from 4 to 5 credits.</p> <p>2. The subjects Abaevedenie and Advanced Foreign Language have been removed, and their credits have been allocated to teaching practice in the 1st and</p>	Professional standards for teachers in educational institutions

		<p>2nd years. The word Abai study has been removed from RE 1 due to the removal of this subject.</p> <p>3. The number of credits for the following subjects has been changed: Descriptive Geometry, Fundamentals of Marketing – from 4 to 3, Clothing Design and Decoration/Accessory Design – from 5 to 3 credits, Occupational Health and Safety – from 2 to 3 credits; Fundamentals of Academic Drawing, Art Management/Home Economics, Small Form Composition/ Ceramics and Pottery, Artistic Processing of Traditional Materials (Wood, Leather, Bone, Stone)/ Artistic Processing of Wood, Contemporary Design/ Digital Art, Home and Food Culture/ Aesthetics of the Man-made Environment – from 4 to 5; History of Kazakhstani Art (IP) – Art Education (IP), Clothing Technology (IP) / Clothing Design (IP), Elective Workshops / Thesis as Research – 5 to 6 credits; Artistic weaving and textile processing/Carpet weaving and artistic textile processing, Artistic metal processing/Jewelry art, Computer graphics/Professional design computer programs – 4 to 6 credits</p>	
9	6B01412 Art education (IP)	<p>1. The description of the discipline "Ecology and Life Safety" has been revised</p> <p>2. The word "abayevedenie" has been removed from ER 1</p> <p>3. A check mark has been added to indicate accreditation</p>	Professional standards for teachers in educational organizations
10	6B01520 Mathematics (IP)	<p>1. In the database cycle, the disciplines "Methods of Teaching Mathematical Problem Solving," "Practical Work in Algebraic Problem Solving," "Practical Work in Geometric Problem Solving," and "Linear Algebra and Analytical Geometry" were divided into two parts.</p> <p>2. In the PD cycle, the name of the discipline "Integral Calculus of Functions of One Variable" was changed to "Integral Calculus of Functions of One Variable."</p> <p>A check mark has been placed to indicate accreditation.</p>	Professional standards for teachers in educational organizations
11	6B01536 Physics (IP)	<p>1. The name of the discipline "Age and Physiological Features of Child Development" has been corrected in Kazakh.</p>	Teachers (faculty) of higher and/or postgraduate educational institutions

		Check mark for accreditation passed	
12	6B01517 Informatics (IP)	<p>1. In the DB (VC) cycle, the name of the discipline "Age and physiological characteristics of child development" has been corrected in Kazakh</p> <p>2. In the BD cycle, the number of credits for the discipline "Algorithms and Data Structures" was reduced from 6 to 4, for the discipline "Architecture of Digital Devices and Operating Systems" the number of credits was reduced from 6 to 5, and for the discipline " Programming for Mobile Devices" the number of credits was reduced from 5 to 4.</p> <p>3. A check mark has been placed to indicate accreditation has been obtained.</p>	Professional standards for teachers in educational organizations
13	6B01534 Chemistry (IP)	<p>1. The course "Chemistry Laboratory and Risk Management" (2 credits) has been removed from the BD (VC) cycle, and the 2 credits that have been freed up have been distributed between the courses "Physical Chemistry" and "Chemistry of Solutions."</p> <p>2. RO 4 has been adjusted.</p>	Professional standards for teachers in educational institutions
14	6B01532 Biology- Psychology	<p>1. In order to synchronize with the pedagogical component of the IP OP, the disciplines of the pedagogical component have been changed: "Physiology of Schoolchildren's Development" has been replaced by the discipline "Age and Physiological Features of Child Development" (the number of credits has been changed from 5 to 3), the discipline "Fundamentals of Inclusive Education" has been replaced by the discipline "Inclusive Educational Environment" (the number of credits has been changed from 5 to 3), "School Psychology" has been replaced by the discipline "Psychology in Education and Concepts of Interaction and Communication" (the number of credits has been changed from 5 to 4), "Pedagogy" has been replaced by the discipline "Science of Education and Key Theories of Learning" (the number of credits has been changed from 5 to 3), "Theory and Methods of Educational Work" has been replaced by the discipline "Pedagogical Research" (the number of credits has been changed from 5 to 4), the discipline "New Approaches to Teaching and Criteria-Based Assessment" has been replaced by the discipline "Assessment and Development" (the</p>	Professional standards for teachers in educational institutions

		<p>number of credits has been changed from 3 to 4); The subjects "Research, Development, and Innovation" (5 credits) and "Teaching Planning and Individualization of Learning" (4 credits) have been added.</p> <p>2. The number of credits for courses and their alternatives has been changed: Botany, Zoology – from 3 to 4 credits; Fundamentals of Cell Biology/Cytology and Histology – from 3 to 5 credits; Psychological Training/Personal Growth Training – from 5 to 6 credits; Systematics of Higher Plants and Animals/Ecology of Plants and Animals, Physiology of Higher Nervous Activity/Evolutionary Development of Higher Nervous Activity, Fundamentals of Microbiology and Virology/Microbiological Methods of Environmental Research – from 6 to 5 credits; Methods of Teaching Biology – from 5 to 3 credits.</p>	
15	6B01533 Biology (IP)	<p>1. The description of the discipline "Ecology and Life Safety" has been corrected.</p> <p>2. A check mark has been added to indicate accreditation</p>	Professional standards for teachers in educational institutions
16	6B01512 Geography-History	<p>In order to synchronize with the pedagogical component of IP EP, the disciplines of the pedagogical component have been changed: in the BD cycle, "Physiology of Schoolchildren's Development" has been replaced by the discipline "Age and Physiological Features of Child Development," the number of credits has been reduced from 5 to 3, the discipline "Fundamentals of Inclusive Education" has been replaced by the discipline "Inclusive Educational Environment," the number of credits has been reduced from 5 to 3 "School Psychology" has been replaced by the discipline "Psychology in Education and Concepts of Interaction and Communication," the number of credits has been reduced from 5 to 4, "Pedagogy" has been replaced by the discipline "Science of Education and Key Theories of Learning," the number of credits has been reduced from 5 to 3, "Theory and Methods of Educational Work" has been replaced by the discipline " "Pedagogical Research," the number of credits has been reduced from 5 to 4, the</p>	Professional standards for teachers in educational organizations

		<p>disciplines "Teaching Planning and Individualization of Geography Education" and "Research, Development, and Innovation in Geography" have been included; In the PD cycle, the discipline "Methods of Teaching Geography" has been replaced by the discipline "Methods and Technologies of Teaching Geography," and the discipline "New Approaches to Teaching and Criteria-Based Assessment" has been replaced by the discipline "Assessment and Development," with the number of credits increasing from 3 to 4.</p> <p>In the PD (EC) cycle for the discipline "Fundamentals of Industrial and Agricultural Production," the number of credits has been reduced from 6 to 5.</p> <p>The learning outcomes remain unchanged.</p>	
17	6B01519 Geography (IP)	<p>The name of the discipline "Psychology in Education and Concepts of Interaction and Communication" has been corrected.</p> <p>A check mark has been placed to indicate accreditation</p>	Professional standards for teachers in educational institutions
18	6B01601 History	<p>1. In order to synchronize with the pedagogical component, the following changes have been made to the IP EP: the discipline "Physiology of Schoolchildren's Development" has been replaced by "Age and Physiological Features of Child Development" (the number of credits has been changed from 5 to 3); the discipline "Fundamentals of Inclusive Education" has been replaced with "Inclusive Educational Environment" (from 5 to 3 credits); the discipline "General and Age Psychology" has been replaced with "Psychology in Education and Concepts of Interaction and Communication" (from 5 to 4 credits); The course "Pedagogy" has been replaced by "Science of Education and Key Theories of Learning" (, from 5 to 3 credits). The course "Theory and Methods of Educational Work" has been replaced by "Pedagogical Research" (from 5 to 4 credits). New subjects have been added: Teaching Planning and Individualization of Learning - 4 credits, Research, Development, and Innovation - 5 credits, Assessment and Development - 4 credits.</p> <p>2. The subjects "History of Primitive Society" and "History of the Ancient</p>	Professional standards for educators in educational organizations

		<p>World" have been combined into a new subject, "Ancient Civilizations and the Ancient World." The name of the subject "Auxiliary Historical Subjects" has been replaced with "Auxiliary Historical Subjects (IP)."</p> <p>3. ER 2, 4, and 8 have been supplemented and updated.</p>	
19	6B01602 History and Social Studies (IP)	<p>Corrected descriptions of the disciplines "Ecology and Life Safety" and "Age and Physiological Characteristics of Child Development."</p>	Professional standards for teachers in educational institutions
20	6B01715 Kazakh Language and Literature (IP)	<p>1. The name of the discipline "Balalardyn jas zhane fiziologiyalyq damu ereksheliteri" has been corrected in Kazakh.</p> <p>2. The discipline "Language space and ecology of the Kazakh language" has been excluded from the BD cycle</p> <p>3. In the PD cycle, the discipline "Syntax of the Kazakh language and basics of teaching" has been divided into two disciplines: "Syntax of word combinations and simple sentences in the modern Kazakh language and basics of teaching" and "Syntax of complex sentences in the modern Kazakh language and basics of teaching."</p> <p>4. The PD cycle includes the discipline "History of Kazakh Drama and Fundamentals of Teaching," and the discipline "Historical Grammar of the Kazakh Language" has been replaced by the discipline "Stylistics of the Kazakh Language."</p> <p>5. The number of credits for the subjects "Word Formation in the Kazakh Language and Fundamentals of Teaching" and "Hermeneutic Analysis of Literary Works" has been reduced from 4 to 3, and for the subject "History of Kazakh Writing" from 5 to 3.</p>	Professional standards for teachers in educational institutions
21	6B01716 Russian language and literature in schools with Russian and non-Russian languages of instruction (IP)	<p>1. The translation of the discipline title "Age and physiological characteristics of child development" into English has been corrected.</p> <p>2. The number of credits for the following subjects has been changed: "Lexical System of the Russian Language," "Linguistic and Cultural Analysis of Text," "Philological Analysis of Literary Text," "Modern Educational Technologies in a Multicultural Environment" and "Modern Reading Strategies" from 4 to 3 credits, for the discipline "Morphological System of the</p>	Professional standards for teachers in educational institutions

		<p>Russian Language and Word Formation" from 4 to 6 credits, "Contemporary Russian Literature (early 21st century)" from 4 to 5 credits, "Difficult Issues of Spelling and Punctuation" from 5 to 3 credits, in the disciplines "Russian Literature of the 20th Century (1st half)", Russian Literature of the 20th Century (2nd half) credits changed from 4 to 3 and 5 credits</p> <p>3. Division of subjects into 1 and 2 parts: "Syntactic Structure of the Russian Language" has been divided into "Syntactic Structure of the Russian Language 1" and "Syntactic Structure of the Russian Language 2," "World Literature and Culture (Antiquity – Early 21st Century)" has been divided into "World Literature and Culture (Antiquity – Early 21st Century) 1" and "World Literature and Culture (Antiquity – Early 21st Century) 2", "Classical Russian Literature (19th Century)" to "Classical Russian Literature (19th Century) -1" and "Classical Russian Literature (19th Century) -2"</p>	
22	6B01713 English Language (IP)	<p>1. The number of credits for the following subjects has been changed: Fundamentals of English Language Theory (theoretical grammar, theoretical phonetics, lexicology, history of language) – increased from 5 to 7 credits, Functional Stylistics / Stylistics and Lexicology of the English Language – reduced from 5 to 3 credits, Methods and Linguodidactics of Teaching English – increased from 6 to 7 credits, Oral and Written Communication Practice (level B1) – reduced from 6 to 5 credits, Oral and Written Communication Practice (level B2) – reduced from 8 to 6 credits</p> <p>2. New disciplines have been added: Practical Phonetics and Listening Comprehension of the First Foreign Language, Practical English Grammar 1,2, Situational Grammar of the Language Being Studied 1,2, Strategy for Preparing for International Exams (IELTS, TOEFL), Academic English.</p> <p>3. Some disciplines have been excluded: Contemporary Trends in English Phonetics and Grammar, Grammar, Lexicon, and Phonology in Context, Designing and Modeling the Learning Process Based on Cognitive-Interactive Technologies, Using IT Technologies in Teaching English in a Distance Learning Environment. New</p>	Professional standards for teachers in educational organizations

		Technologies in Updated Educational Content, Smart Technologies in Education, English for Academic Purposes, Specialized English 4. OOD (EC) cycle disciplines are integrated	
23	6B01714 Foreign languages (IP)	<p>1. The translation of the discipline in Kazakh from "Критериалдық бағалау технологиялары" to "Критериалды бағалау технологиялары" has been corrected</p> <p>2. The number of credits for the following disciplines has been changed: Professionally-oriented main foreign language (level C1) from 5 to 4 credits, Professionally-oriented main foreign language (level C2) from 4 to 5 credits; Elective subjects Foreign Literature and Creative Writing / Foreign Literature from 4 to 5 credits</p> <p>3. New subjects added: English Stylistics and Lexicology, Practical English Grammar 1,2 Situational Grammar of the Language Being Studied 1, 2, Strategy for Preparing for International Exams (IELTS, TOEFL)</p> <p>4. Courses removed: Interpretation of Foreign Language Texts, Linguistic Stylistics / Functioning of Foreign Languages in Various Spheres of Speech Communication, / Comparative Linguistics / Linguistic Typology / Main Foreign Language for Academic Purposes / Business Discourse Practice (Main and Second Languages) / Multilingual Business Discourse / Language Communication in the Professional Sphere</p>	Professional standards for teachers in educational institutions
24	6B01802 Social pedagogy and teaching assistant	<p>1. In order to synchronize with the pedagogical component of the IP EP, the disciplines of the pedagogical component have been changed: "Physiology of Schoolchildren's Development" has been replaced by the discipline "Age and Physiological Features of Child Development" (the number of credits has been changed from 5 to 3), the discipline "Fundamentals of Inclusive Education" has been replaced by the discipline "Inclusive Educational Environment" (the number of credits has been changed from 5 to 3), "School Psychology" has been replaced by the discipline "Psychology in Education and Concepts of Interaction and Communication" (the number of credits has been changed from 5 to 4), "Pedagogy" has</p>	Professional standards for educators in educational organizations

		<p>been replaced by the discipline "Science of Education and Key Theories of Learning" (the number of credits has been changed from 5 to 3), "Theory and Methods of Educational Work" has been replaced by the discipline "Pedagogical Research" (the number of credits has been changed from 5 to 4), the discipline "New Approaches to Teaching and Criteria-Based Assessment" has been replaced by the discipline "Assessment and Development" (the number of credits has been changed from 3 to 4); The subjects "Research, Development, and Innovation" (5 credits) and "Teaching Planning and Individualization of Education" (4 credits) have been added.</p> <p>2. The number of credits has been changed: for university component subjects - "Working with Gifted Children" reduced from 5 to 3, "Social Pedagogy" reduced from 6 to 5, "Age Psychology" increased from 5 to 6 credits, "Pedagogical Psychology" increased from 3 to 4 credits; for elective component subjects "Fundamentals of Career Guidance"/"Practical Work of a Social Educator in School" increased from 3 to 5 credits, for subjects "Fundamentals of Psychocorrection"/"Art Therapy" reduced from 5 to 3.</p> <p>3. ER 9 and 10 have been added.</p>	
25	6B02129 Instrumental performance	<p>1. Changed description of the discipline: "Ecology and Life Safety"</p> <p>2. The discipline "Polyphony" has been removed, and the discipline "Inclusive Values: From Theory to Practice" has been added. 3 credits</p> <p>3. The number of credits for the discipline "History of World Music" has been changed - reduced from 6 credits to 5.</p>	Performer-instrumentalist, musical instrument teacher (by type)
26	6B02102 Vocal Art	<p>1. The description of the discipline "Ecology and Life Safety" has been revised.</p> <p>2. The course "Harmony 2" has been removed, and the course "Inclusive Values: From Theory to Practice" has been added. 3 credits</p> <p>3. Number of credits changed: for the discipline "Specialty 5" - increased from 2 to 3 credits, for the disciplines "Specialty 7", "Vocal Ensemble 1/" "Vocal Duet 1," "Specialized Terminology for Vocalists"/"Sight Reading" - reduced from 5 to 3 credits, for the subjects "Opera Vocal Genres"/"History of Opera" changed the number of credits from 6 to 5 credits for the</p>	Singer

		<p>subjects "Computer Music Literacy and Arrangement"/"Traditions and Schools of Performing Arts" from 3 to 5 credits,</p> <p>4. An elective discipline and its alternative, "Music Pedagogy and Psychology/History of Music Pedagogy," has been included, with a volume of 5 credits.</p>	
27	6B02125 Traditional Music Art	<p>1. The description of the discipline "Ecology and Life Safety" has been changed.</p> <p>2. The discipline "Polyphony" (3 credits) has been removed and replaced with the discipline "Inclusive Values: From Theory to Practice" (3 credits).</p>	Performer-instrumentalist, musical instrument teacher (by type)
28	6B02104 Directing	<p>1. The course "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>The number of credits for the discipline History of Costume, History of Fashion has been changed from 6 to 3 credits.</p>	Drama and film actor Drama Theater Director Director of Mass Performances Directors (by genre and type of activity)
29	6B02126 Acting	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>The number of credits for the following disciplines has been changed: Puppeteering, Stage Speech 6, Public Speaking 6 - increased from 5 to 6 credits; Set Design and Costumes, Model Construction, Methods of Working with Dramatic Works – reduced from 5 to 3 credits, Fundamentals of Directing – from 6 to 5 credits</p>	Drama Theater and Film Actor
30	6B02105 Choreography	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. In the PD cycle, the discipline "Training Ensemble" has been replaced with "Performance Workshop in a Choreographic Ensemble."</p> <p>3. ER 3 has been corrected.</p>	Choreographer Teacher-choreographer
31	6B02130 Art dance teacher	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. In the BD (VC) cycle, the number of credits for the discipline "Classical Dance Teaching Methods 5" has been increased from 5 to 6, the number of credits for the discipline "Classical Dance Teaching Methods 6" has been reduced from 6 to 5, and the number of credits for the discipline</p>	Choreographer Teacher-choreographer

		<p>"Methods of Teaching Children's Dance 1 (Dance for Children)" has been reduced from 5 to 3.</p> <p>3. In the BD (EC) cycle, the number of credits for the discipline "Methodology of Teaching Folk Stage Dance 6" has been reduced from 5 to 3, the number of credits for the discipline "Methodology of Teaching Folk Stage Dance 7" has been increased from 5 to 6.</p> <p>4. ER 3 has been adjusted. A check mark has been placed to indicate accreditation has been obtained.</p>	
32	6B02123 Fashion and costume design	<p>1. New disciplines included: Inclusive values: from theory to practice, Marketing in art, Management in culture and art Subjects excluded: <i>Image and Style, Fashion Accessory Design</i></p> <p>2. Number of credits per discipline changed: Fundamentals of Design Research from 6 credits to 3 credits, Modeling/Workshops from 6 credits to 5, Decorative and Applied Arts/Jewelry Art and Object Design in Fashion from 5 credits to 6</p> <p>3. Adjusted ER-2</p>	Clothing Designer
33	6B02124 Interior Design	<p>Included discipline: Inclusive Values: From Theory to Practice The number of credits for the discipline has been changed. Exhibition Design from 6 credits to 3 credits Adjusted ER-2</p>	Designer in the field of art (art designer, graphic designer, interior designer, industrial designer, and others)
34	6B02127 Graphic Design	<p>1. The following disciplines have been added: Drawing 3, Painting 3, Fundamentals of Composition, Motion Design, Layout Design, Easel Graphics, Inclusive Values: From Theory to Practice.</p> <p>2. The following disciplines have been divided: Adobe Photoshop, Corel DRAW into Corel DRAW-I, Corel DRAW-II, Adobe Photoshop-I, Adobe Photoshop-II, Adobe Photoshop-III; Adobe Illustrator into Adobe Illustrator-I, Adobe Illustrator-II, Adobe Illustrator-III.</p> <p>Checked for accreditation</p>	Designer in the field of art (art designer, graphic designer, interior designer, industrial designer, and others)
35	6B02128 Art decor. Crafts	<p>1. The following disciplines have been added: Inclusive Values: From Theory to Practice, Creative Workshops 4 (Ceramics), Relief Composition (Ceramics), Creative Workshops 5 (Weaving), Elements of Artistic Design, Creative Workshops 6</p>	Jewelry Artist Ceramic artist Textile and weaving artist

		(Metal), Jewelry Restoration; 2. ER-6 has been revised (due to the addition of the discipline Inclusive Values: From Theory to Practice).	
36	6B02202 History, Archival Science, and Museology	1. A new discipline, "Inclusive Values: From Theory to Practice," has been introduced. 2. The description of the discipline "Methods of Teaching History" has been revised.	Archivist (in museum studies) Ensuring the preservation of the National Archival Fund (Order of the Ministry of Culture and Sports of the Republic of Kazakhstan No. 338 of November 25, 2022, Order No. 265 of September 28, 2016) Methodologist for museum excursion activities Museum specialist Editor (in museum work)
37	6B02301 Philology: Kazakh philology	1. The discipline "Inclusive Values: From Theory to Practice" is included in the BD (VK) cycle. 2. In the BD (VC) cycle, the number of credits for the discipline "Syntax of Complex Sentences in Modern Kazakh" has been reduced from 6 to 5, and for the discipline "Linguistic and Cultural Studies" from 5 to 3. 3. ER 8 has been adjusted	1. Activities related to the creation and broadcasting of television programs, 2. Publication of newspapers Publication of magazines and periodicals, 3. Activities related to the processing of news in the media
38	6B02302 Philology: Russian philology	1. The BD (VK) cycle includes the discipline "Inclusive Values: From Theory to Practice." 2. In the BD (VC) cycle, the number of credits for the discipline "Russian Literature of the 11th-18th Centuries" has been reduced from 6 to 5, and for the discipline "Word Formation and Morphology of the Modern Russian Language" from 5 to 3. 3. The course "Introduction to Slavic Philology" has been removed from the BD (EC) cycle, and the course "Fundamentals of Linguistics" has been added. 4. RO 1, 3, 4 10 have been adjusted.	Activities related to the creation and broadcasting of television programs Newspaper publishing Magazine and periodical publishing News processing activities in the media
39	6B02304 Philology: Kazakh language and Turkish language	1. The BD (VC) cycle includes the discipline "Inclusive Values: From Theory to Practice." 2. The description has been corrected in ER 2. 3. In the BD (VC) cycle, the number of credits for the discipline "Syntax of Complex Sentences in Modern Kazakh" has been reduced from 6 to 5, and in the BD (VC) cycle, the number of credits for the discipline "Linguistic and Cultural Studies"	Activities related to the creation and broadcasting of television programs Newspaper publishing Magazine and periodical publishing Translator

		<p>has been reduced from 5 to 3.</p> <p>4. A check mark has been placed to indicate accreditation has been obtained.</p> <p>5. Added line feature EP - joint EP with Kastamonu University (Turkey)</p>	
40	6B03101 Sociology	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle</p> <p>2. The number of credits for the discipline "Demography and Social Statistics" has been reduced from 6 credits to 3 credits</p> <p>3. Changes have been made to ER 8.</p>	<p>1. Activities of professional public organizations</p> <p>2. HR analytics</p> <p>3. Sociology of labor (sociological research in organizations)</p>
41	6B03106 Regional Studies	<p>1. The discipline "Inclusive values: from theory to practice" has been included in the BD (VC) cycle</p> <p>2. The number of credits for the following disciplines has been changed: "World Political Process and World Politics" from 5 credits to 3 credits, "History of Countries in the Region of Specialization," "History of Countries in Europe and North America," "Economic Geography of the Regions of the World," "International Cooperation and Business" from 5 credits to 4 credits; for the discipline "Fundamentals of Diplomacy and Diplomatic Service" increased from 5 credits to 6 credits</p> <p>3. Additions have been made to ER 7.</p>	<p>Translator</p> <p>Activities of news agencies</p>
42	6B03105 Psychology	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (KV) cycle.</p> <p>2. In the BD (EC) cycle, the number of credits for the discipline "Differential Psychology" has been reduced from 5 to 4, and for the discipline "Psychology of Collective Actions" from 5 to 3</p>	<p>Psychological and Social Work (Order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan No. 292 of May 30, 2019, Order No. 383 of September 22, 2022)</p> <p>Clinical Psychology</p> <p>https://atlasbt.enbek.kz/profession/193</p>
43	6B03102 International Relations	<p>1. The discipline "Inclusive Values: From Theory to Practice" is included in the BD (VC) cycle.</p> <p>2. The number of credits for the discipline "Multilateral Diplomacy" has been reduced from 6 credits to 3 credits</p> <p>3. Additions have been made to ER 6.</p>	<p>Translator</p> <p>Activities of Information Agencies</p>
44	6B03207 Library and educational activities	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. In the BD (VK) cycle, the number of credits for the discipline "Fundamentals of Library Research" has been increased from 3 to 5, and in the BD (EC) cycle, the number of credits for the disciplines "Information Resources of School Libraries"/ "Electronic Services in</p>	<p>Librarian-methodologist</p> <p>Librarian-Cataloguer</p> <p>Bibliographer</p>

		<p>Children's Libraries" has been increased from 5 to 6, in the BD (EC) cycle for the disciplines "Library Collection"/" Document Collection" has been reduced from 6 to 5, in the PD (VC) cycle, the number of credits for the subjects "Bibliographic Activities of Libraries" has been increased from 5 to 6, in the PD (EC) cycle, the number of credits for the subjects "Library Catalog"/"Theory of Library Information Activities" has been reduced from 6 to 5.</p> <p>3. A check mark has been placed to indicate accreditation.</p>	
45	6B04108 Economics and Management	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. The disciplines "State Planning of Economic Development"/"Intra-company Planning" have been excluded from the BD (KV) cycle, and the disciplines "Organization of Tender Procurement"/"Business Analytics" have been included.</p> <p>3. The disciplines "Documentation of Management Activities"/"Office Work and Document Flow at the Enterprise" have been excluded from the PD (EC) cycle. The disciplines "Organization and Standardization of Labor"/"Electronic Document Flow" have been included.</p> <p>4. In the BD (EC) cycle, the number of credits for the subjects "Strategic Management" and "Management in the Service Sector" has been reduced from 5 to 3, and for the subject "Business Planning" from 6 to 5.</p> <p>5. The description in ER 2 has been revised.</p>	<p>1. Activities in the field of planning and analysis of company resources</p> <p>2. Accountant</p> <p>3. Employment assistance (employment center) (Order of the Ministry of Labor and Social Protection of the Republic of Kazakhstan No. 714 of December 31, 2019, Order No. 480 of November 30, 2022)</p> <p>4. Project management</p> <p>5. Financial management</p>
46	6B04111 Accounting and Auditing	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. The disciplines "Digital Economy"/"Financial Risk Assessment and Economic Security"/"Accounting" have been excluded from the BD (EC) cycle, and the disciplines "Electronic Money and Cryptocurrencies"/"Accounting and Auditing of Public Procurement"/"State Audit" have been included.</p> <p>3. The discipline "Financial Control and Audit" has been excluded from the PD (EC) cycle, and the discipline "Tax Planning and Tax Control" has been included.</p> <p>4. The discipline "Fundamentals of Taxation" has been replaced by the discipline "Taxes and Taxation."</p>	<p>Activities in the field of planning and analysis of company resources</p> <p>Financial management</p> <p>Accountant</p>

		<p>5. In the PD (EC) cycle, the number of credits for the subjects "Management Accounting II" and "Management Analysis" has been reduced from 5 to 4, and for the subjects "Accounting in nd Manufacturing Industries" and "Accounting in the Agro-Industrial Complex" has been reduced from 6 to 4.</p> <p>6. ER10 has been adjusted.</p>	
47	6B04105 Finance	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. The discipline "Digital Economy" has been excluded from the BD (EC) cycle, and the discipline "Electronic Money and Cryptocurrencies" has been included.</p> <p>3. The subjects "Asset and Business Analysis and Evaluation"/"Tax Control" have been excluded from the PD (EC) cycle, and the subjects "Tax Planning and Tax Control"/"Bankruptcy of Enterprises and Companies" have been included.</p> <p>4. The discipline "State Regulation of the Economy" has been transferred from the BD (VC) cycle to the PD (KV) cycle, and the discipline "Taxes and Taxation" has been transferred from the PD (EC) cycle to the BD (VC) cycle.</p> <p>5. In the PD (EC) cycle, the number of credits for the subjects "State Budget" and "Financial Foundations of Local Self-Government" has been reduced from 5 to 4, and for the subjects "Financial Planning" and "Financial Monitoring" from 5 to 3.</p> <p>6. ER10 has been adjusted.</p>	<p>Accountant</p> <p>Financing of an innovative project</p> <p>Financial management</p> <p>Activities in the field of planning and analysis of company resources</p>
48	6B04114 Marketing and Business	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. The disciplines "Internal Planning"/"Political Marketing" have been excluded from the BD (EC) cycle, and the disciplines "SMM Promotion"/"Business Analytics" have been included.</p> <p>3. The disciplines "Human Resource Management"/"Industrial Marketing" have been excluded from the PD (EC) cycle, and the disciplines "Leadership and Team Building"/"Banking Marketing" have been included.</p> <p>4. In the BD (EC) cycle, the number of credits for the discipline "Commodity Policy of the Enterprise" has been reduced from 5 to 3. In the PD (EC) cycle, the number of credits for the disciplines "International Marketing"/"Sales</p>	<p>Social Media Management (SMM)</p> <p>Advertising in the media</p> <p>Active sales</p> <p>Brand Management</p>

		Management" has been reduced from 4 to 3. 5. ER 9 has been adjusted.	
49	6B04202 Law	<p>1. In the database cycle, the discipline "History of the State and Law of the Republic of Kazakhstan" has been excluded, and the discipline "Inclusive Values: From Theory to Practice" has been included.</p> <p>2. On the recommendation of the Atameken National Chamber of Entrepreneurs, the following changes have been made to the BD (EC) cycle: the discipline "Digitization of Public Services" has been replaced by the discipline "Cyber Law and Digitization of Public Services," and the discipline "Land Law of the Republic of Kazakhstan" has been replaced by the discipline "Legal Regulation of Land and Environmental Relations in the Republic of Kazakhstan."</p>	Forensic examination of documents
50	6B04203 Law enforcement	<p>The BD cycle includes the discipline "Inclusive values: from theory to practice."</p> <p>Explanation: in the PS "Forensic examination of documents", the profession "Forensic experts" is listed twice, as the PS has separate profession cards: Forensic experts (specialising in forensic examination of handwriting and signatures), Forensic experts (specialising in forensic autography).</p>	Forensic trace evidence examination Forensic document examination
51	6B04204 Legal regulation of entrepreneurial activity	The database cycle includes the discipline "Inclusive values: from theory to practice."	Legal support for innovative projects
52	6B05201 Ecology	<p>1. The BD cycle (VC) includes the discipline "Inclusive Values: From Theory to Practice."</p> <p>2. In the BD cycle, the disciplines "Laboratory Experiments in Ecology" and "Indication of the State of the Environment" from the elective component have been transferred to the university component; The disciplines "Fundamentals of System Ecology" and "Ecological Aspects of Natural Science" have been moved from the university component to the elective component. In the PD cycle, the discipline "Biological Resources of Kazakhstan" has been moved from the university component to the elective component.</p> <p>3. The number of credits for the disciplines "Soil Science" and "Industrial Ecology and Technogenic Risk" has been changed from 6 to 5 credits.</p> <p>4. The discipline "Applied Ecology" has</p>	<p>Environmental protection activities in road construction</p> <p>Hydrometeorology and Ecology https://atlasbt.enbek.kz/profession/209 https://atlasbt.enbek.kz/profession/2 https://atlasbt.enbek.kz/profession/212</p>

		<p>been replaced by the discipline "Waste Processing Technology."</p> <p>5. Additions have been made to ER 2 and 7.</p>	
53	6B05204 Geography	<p>The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>The discipline "Economic, Social, and Political Geography of the World" has been moved from the PD (EC) cycle to the PD (VK) cycle.</p> <p>In the PD (EC) cycle, the number of credits for the discipline "Country Studies" has been increased from 3 to 5, and for the discipline "Geographical Expertise" the number of credits has been increased from 5 to 6.</p> <p>The discipline "Scientific Foundations of School Geography" has been excluded from the BD (VK) cycle, and the discipline "Methods of Teaching Geography" has been excluded from the PD (VK) cycle.</p> <p>ER 2 and ER 8 have been changed and corrected.</p>	<p>Geoecological Research (Geoecologist)</p>
54	6B05301 Chemistry	<p>1. The discipline "Inclusive Values: From Theory to Practice" has been included in the BD (VC) cycle.</p> <p>2. ER 5 has been adjusted</p>	<p>Quality control of oil, gas, and their refined products</p>
55	6B06102 Information Systems	<p>1. Based on the recommendation of experts from NPP Atameken:</p> <ul style="list-style-type: none"> - the university component of the DB cycle "Algebra and Geometry" (1 semester, 5 credits) was replaced by the discipline "Computer Algebra and Geometry" (2 semesters, 5 credits); - the discipline "Physics" (2 semesters, 5 credits) was replaced by the discipline "Computer Modeling of Physical Processes" (3 semesters, 3 credits) and included in the PD cycle; - The university component "Fundamentals of Information Systems" (5 credits) has been moved from the PD cycle to the BD cycle. - The discipline "Mobile Application Development Technologies" (6 semesters, 3 credits) has been added to the cycle of specialized compulsory modules. - The university component of the BD cycle "Python Programming Language" (2 semesters, 7 credits) has been moved to 	<p>1. Administration of graphic and operating systems</p> <p>2. Computer systems architecture management</p> <p>https://atlasbt.enbek.kz/profession/59</p>

		<p>replace the discipline "Introduction to Programming" (1 semester, 8 credits), and the discipline "Fundamentals of Algorithms and Programming (C#)" (7 credits) has been added to the 2nd semester.</p> <p>2. Based on employer recommendations:</p> <ul style="list-style-type: none"> - The elective component of the database cycle "PHP Programming Language" (5 semesters, 5 credits) has been moved to the cycle of specialized compulsory modules instead of the discipline "Program Development Tools"; - Instead of the course "PHP Programming Language," the course "Web Programming" has been included as an elective component of the database cycle. <p>3. Based on the State Educational Standard, the discipline "Inclusive Values: From Theory to Practice" (6 semesters, 3 credits) has been included in the cycle of basic compulsory modules.</p> <p>4. A new learning outcome (ON12) has been added</p>	
56	6B06103 Computing and software	<p>1. On the recommendation of employers:</p> <ul style="list-style-type: none"> - the elective component of the DB cycle "PHP Programming Language" (5 semesters, 5 credits) has been transferred to the cycle of specialized compulsory modules - instead of the discipline "PHP Programming Language" as an elective component of the database cycle, the discipline "Web Programming" has been included - the university component of the database cycle "Algebra and Geometry" (1 semester, 5 credits) has been replaced by the discipline "Computer Algebra and Geometry" (2 semesters, 5 credits); - The course "Physics" (2 semesters, 5 credits) has been replaced by the course "Computer Modeling of Physical Processes" (3 semesters, 3 credits) and included in the PD cycle. <p>2. Based on the State Educational Standard, the course "Inclusive Values: From Theory to Practice" (6 semesters, 3 credits) has been included in the cycle of basic compulsory modules.</p> <p>3. Two learning outcomes (ON10, ON12) have been updated.</p>	<p>1. Computer System Architecture Management</p> <p>2. Software testing</p> <p>https://atlasbt.enbek.kz/profession/59</p>
57	6B11101 Tourism	<p>1. 1. The course "Inclusive Values: From Theory to Practice" has been included in the database cycle (VC).</p> <p>2. The discipline "Socio-economic</p>	<p>1. Provision of tourism services</p> <p>2. Provision of excursion services</p> <p>3. Organization and conduct of active types of tourism</p>

		<p>cartography" has been excluded from the PD (EC) cycle, and the discipline "Health tourism" has been included.</p> <p>3. The course "Techniques and Tactics of Active Tourism" has been moved from the PD (VC) cycle to the BD (VC) cycle, and the course "Psychology of Tourism Activities" has been moved from the BD (VC) cycle to the BD (EC) cycle, the discipline "Planning and Organization of the Tourism Business" has been moved from the BD (EC) cycle to the PD (VC) cycle, and the number of credits has been reduced from 6 to 5.</p> <p>4. In the BD (EC) cycle, the number of credits for the disciplines "Restaurant Business" and "Food Industry in Tourism" has been increased from 4 to 5, and in the discipline "Technology and Organization of Tour Operator and Travel Agency Activities" it has been reduced from 6 to 5; In the PD (EC) cycle, the number of credits for the discipline "Cartography with the basics of topography" has been increased from 3 to 5, and in the disciplines "Innovative technologies in tourism" and "Modern technologies for doing business in the field of tourism" it has been reduced from 5 to 3.</p> <p>5. The description in ER 9 has been corrected.</p> <p>6. In the OOD (ER) cycle, the description of the discipline "Ecology and Life Safety" has been corrected.</p>	<p>https://atlasbt.enbek.kz/profession/317</p> <p>https://atlasbt.enbek.kz/profession/306</p> <p>https://atlasbt.enbek.kz/profession/311</p>
58	6B11102 Cultural and leisure activities	<p>1. The BD (VC) cycle includes the discipline "Inclusive Values: From Theory to Practice."</p> <p>2. In the BD (EC) cycle, the number of credits for the disciplines "Stage Costumes in the DRC", "History of Costume", "Interactive Technologies and Methods in Cultural and Leisure Work", "New Information Technologies", "Tourism in the DRC", "Imageology" has been reduced from 6 to 5</p> <p>3. The discipline "Stage Craft and Speech Culture" has been excluded from the BD (KV) cycle, and the discipline "Leisure Industry and Creative Management" has been included; the discipline "Speech Culture" has been excluded, and the discipline "Creative Design Industry in the Field of Culture" has been included.</p> <p>4. ER 1 has been adjusted.</p>	<p>Methodologist at a library, folk art center, club, museum, center (scientific, methodological, cultural, etc.)</p> <p>Art manager</p>

59	7M01109 Pedagogy and Psychology	<p>1. The discipline "Pedagogy of Higher Education" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Psychology of Management" has been replaced by "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Production Management" has been replaced by the discipline "Methods and Tools of Artificial Intelligence."</p>	Professional standards for educators in educational organizations Teachers (faculty) of higher and/or postgraduate educational institutions
60	7M01108 Pedagogy and Psychology (Social Pedagogy of the Russian Federation)	<p>1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Features of Teaching Methods in Postgraduate Education" has been replaced by the discipline "Methods and Tools of Artificial Intelligence."</p>	Professional standards for educators in educational organizations Teachers (faculty) of higher and/or postgraduate education institutions
61	7M01307 Pedagogy and Methods of Primary Education	<p>Based on the cooperation agreement with MPGU, the line "feature of the educational program - joint" has been added. At the suggestion of the partner university, six disciplines were included: The following were added to the basic university component of the cycle:</p> <p>1. "Methodology of Research Activities" instead of the discipline "Organization and Planning of Scientific Research Work," "Scientific Schools in Psychology and Pedagogy" instead of the discipline "Content of Primary Education and Scientific and Theoretical Foundations of Teaching Technology";</p> <p>3. The following were included in the specialized university component of the cycle: "Modeling active forms of teaching organization in primary school," instead of the discipline "Modern pedagogical and information technologies in the training of specialists," "Methods of forming meta-subject educational outcomes for primary school students," instead of the discipline "Pedagogical and psychological foundations of the formation of professional skills of primary school teachers"; "Designing and organizing the educational process in primary school" instead of the discipline "Theory and practice of pedagogical experimentation," "Pedagogical design of</p>	Teachers (professors and lecturers) of higher and/or postgraduate education institutions Professional standards for educators in educational institutions

		developmental activities and modern lessons" instead of the discipline "Theory and technology of teaching pedagogical disciplines in higher education."	
62	7M01402 Physical Culture and Sports	<ol style="list-style-type: none"> 1. In the BD (VC) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Methods of Teaching in Higher Education". 2. The discipline "Production Management" has been replaced by the discipline "Methods and Tools of Artificial Intelligence." 	Professional standards for educators in educational institutions Development of mass physical culture and sports Teachers (faculty) of higher and/or postgraduate educational institutions
63	7M01404 Music education	<ol style="list-style-type: none"> 1. In the BD (VC) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education". 2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle. 	<ol style="list-style-type: none"> 1. Musicology 2. Professional standards for educators in educational organizations 3. Educators (faculty) of higher and/or postgraduate educational institutions
64	7M01501 Mathematics	<ol style="list-style-type: none"> 1. In the BD (VK) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education". 2. The discipline "New Teaching Technologies" has been replaced by the discipline "Innovative Teaching Methods," "Applied Information Programs" has been replaced by "Methods and Tools of Artificial Intelligence," and "Digital Technologies" has been replaced by "IT Digital Resources in Mathematics Education." 	Professional standards for educators in educational institutions Teachers (faculty) of higher and/or postgraduate educational institutions
65	7M01504 Physics	<ol style="list-style-type: none"> 1. The discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership 	Teachers (faculty) of higher and/or postgraduate education institutions Professional standards for educators in

		<p>and Team Interaction", "Pedagogy of Higher Education" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education"</p> <p>2. The discipline "Distance Learning Technologies" has been replaced by the discipline "Methods and Tools of Artificial Intelligence"</p>	educational institutions
66	7M01535 Computer Science	<p>1. In the BD (VC) cycle, the discipline "Management Psychology" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education".</p> <p>2. In the PD (VC) cycle, the discipline "Informatization of Education and Problems of Teaching" has been replaced by the discipline "Fundamentals of Digitalization of Education and Digital Didactics."</p>	<p>Professional standards for educators in educational organizations Teachers (faculty) of higher and/or postgraduate educational institutions https://atlasbt.enbek.kz/profession/139 https://atlasbt.enbek.kz/profession/423</p>
67	7M01507 Chemistry	<p>1 The discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction," and "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education."</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p> <p>3. RO 5 has been adjusted.</p>	<p>Teacher (faculty) of higher and/or postgraduate education institutions</p> <p>Professional standards for educators in educational institutions</p>
68	7M01509 Biology	<p>1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Bioinformatics" has been replaced by the discipline "Methods and Tools of Artificial Intelligence"</p>	<p>Professional standards for educators in educational institutions Teachers (faculty) of higher and/or postgraduate educational institutions</p>
69	7M01512 Biology 1.5	<p>1 The discipline "Management Psychology" has been replaced by the discipline</p>	Professional standards for teachers in educational institutions

		<p>"Psychology of Leadership and Team Interaction"</p> <p>2. The number of credits for the discipline "Bioethical Issues in Biological and Environmental Research" and its alternative "Biological and Environmental Safety of the Republic of Kazakhstan" has been changed from 6 to 3 credits</p> <p>3. Due to the 3 credits that have been freed up, the discipline "Methods and Tools of Artificial Intelligence" and its alternatives "Digital Technologies in Biology and Ecology" and "Biological Statistics" have been added.</p>	
70	7M01537 Biology (Biology and Ecology in the System of General and Professional Education, Russian Federation)	<ol style="list-style-type: none"> 1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction." 2. The discipline "Biological Statistics" has been replaced by the discipline "Methods and Tools of Artificial Intelligence" 	Professional standards for educators in educational organizations Teachers (faculty) of higher and/or postgraduate educational institutions
71	7M01510 Geography	<p>In the BD (VC) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction," and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education."</p> <p>The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p> <p>ER 3 has been changed and corrected.</p>	Teachers (faculty) of higher and/or postgraduate education institutions
72	7M01601 History	<ol style="list-style-type: none"> 1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction." 2. The discipline "Organization and Planning of Scientific Research" has been replaced by the discipline "Design and Implementation of Scientific Research," and the discipline "Methodology of Scientific 	Teachers (professors and lecturers) of higher and/or postgraduate education institutions Professional standards for teachers of educational institutions

		<p>Research" has been replaced by the discipline "Digital History of Kazakhstan: Sources, Methods, Visualization," and the course "The Modern East: History and Key Issues" has been replaced with the course "Intellectual History of Kazakhstan: The Emergence and Development of Social Thought."</p> <p>3. A new discipline, "Methods and Tools of Artificial Intelligence," has been introduced.</p>	
73	7M01701 Kazakh Language and Literature	<p>1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Production Management" has been replaced by the discipline "Methods and Tools of Artificial Intelligence."</p>	<p>Teachers (faculty) of higher and/or postgraduate education institutions</p> <p>Professional standards for teachers of educational institutions</p>
74	7M01703 Russian Language and Literature	<p>1. In the PD (EC) cycle, the discipline "Management Psychology" has been replaced by the discipline "Psychology of Leadership and Team Interaction," and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education."</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p>	<p>Teachers (faculty) of higher and/or postgraduate education institutions</p> <p>Professional standards for educators in educational institutions</p>
75	7M01704 Russian Language and Literature in Schools with Non-Russian Language of Instruction	<p>1. In the PD (EC) cycle, the discipline "Management Psychology" has been replaced by the discipline "Psychology of Leadership and Team Interaction," and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education."</p> <p>2. In the BD (EC) cycle, the discipline "Production Management" has been replaced by the discipline "Methods and Tools of Artificial Intelligence."</p>	<p>Teachers (faculty) of higher and/or postgraduate education institutions</p> <p>Professional standards for educators in educational institutions</p>
76	7M01705 Foreign language: two foreign languages	<p>1. The discipline "Management Psychology" has been replaced by the discipline "Psychology of Leadership and Team Interaction", the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education".</p>	<p>Teachers (faculty) of higher and/or postgraduate education institutions</p> <p>Professional standards for educators in educational institutions</p>

		<p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included.</p> <p>3. The subjects "Production Management" and "History and Methodology of Pedagogical Science" have been removed</p>	
77	7M01709 Foreign language: two foreign languages 1.5	<p>1 The subject "Psychology of Management" has been replaced by the subject "Psychology of Leadership and Team Interaction."</p> <p>2. The number of credits for the disciplines "Contemporary Problems of Pedagogical Science and Education" and "Problems of Educators and Contemporary Education in Kazakhstan" has been changed from 6 to 3 credits</p> <p>3. Due to the 3 credits that have been freed up, the discipline "Methods and Tools of Artificial Intelligence" and its alternative "Corpus Linguistics and Computer Tools" have been added.</p> <p>4. The discipline "History and Methodology of Pedagogical Science" has been excluded.</p>	Professional standards for teachers in educational organizations
78	7M02101 Design	<p>1. In the BD (VC) cycle, the course "Psychology of Management" has been replaced by the course "Psychology of Leadership and Team Interaction," and the course "Higher Education Pedagogy" has been replaced by the course "Modern Technologies and Teaching Methods in Higher Education."</p> <p>2. In the BD (EC) cycle, the discipline "Production Management" has been excluded, and the discipline "Methods and Tools of Artificial Intelligence" has been included.</p>	<p>Teachers (professors and lecturers) at higher and/or postgraduate educational institutions</p> <p>Designers in the arts (art designers, graphic designers, interior designers, industrial designers, and others)</p>
79	7M02201 History	<p>1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Organization and Planning of Scientific Research" has been replaced by the discipline "Design and Implementation of Scientific Research," and the discipline "Methodology of Source Studies" has been replaced by the discipline "Digital History of Kazakhstan: Sources, Methods, Visualization."</p> <p>3. A new discipline, "Methods and Tools of Artificial Intelligence," has been introduced.</p>	<p>Museum Studies</p> <p>Teachers (faculty members) of higher and/or postgraduate educational institutions</p>

80	7M02301 Philology: Kazakh Philology	<p>1. In the BD (VC) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education".</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (KV) cycle.</p>	<ol style="list-style-type: none"> 1. Teachers (professors and lecturers) at higher and/or postgraduate educational institutions 2. Newspaper publishing Magazine and periodical publishing 3. News processing activities in the media
81	7M03102 International Relations	<p>1. In the BD (VC) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Methods of Teaching in Higher Education".</p> <p>2 The discipline "Globalization and International Relations" has been excluded, and the discipline "Methods and Tools of Artificial Intelligence" has been included.</p> <p>3. Additions have been made to ER 11.</p>	<p>Translator Teacher (faculty) of higher and/or postgraduate education institutions</p>
82	7M03104 Psychology	<p>1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Production Management" has been replaced by the discipline "Methods and Tools of Artificial Intelligence."</p>	<ol style="list-style-type: none"> 1. Educator (faculty) of higher and/or postgraduate education institutions 2. Psychological and social work (Order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan No. 292 of May 30, 2019, Order No. 383 of September 22, 2022)
83	7M04101 Economics	<p>1. In the BD (VK) cycle, the discipline "Psychology of Management" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Pedagogy of Higher Education" has been replaced by the discipline "Modern Technologies and Methods of Teaching in Higher Education".</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p> <p>3. The discipline "Advanced Macroeconomic Analysis" has been excluded from the BD (EC) cycle.</p> <p>4. The description in ER2 has been corrected.</p>	<p>Teachers (professors and lecturers) at higher and/or postgraduate educational institutions</p> <p>Activities in the field of planning and analysis of company resources</p> <p>Professional standards for educators in educational institutions</p> <p>Financial management</p> <p>Management of a small (medium) company</p>
84	7M04106 State and local	<p>1. In the BD (VC) cycle, the discipline "Psychology of Management" has been</p>	<p>Teachers (professors and lecturers) of higher and/or postgraduate education</p>

	government	<p>replaced by the discipline "Psychology of Leadership and Team Interaction," and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Methods of Teaching in Higher Education."</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p> <p>3. The discipline "Sustainable Development of Rural Areas" has been excluded from the BD (EC) cycle.</p> <p>4. ER 2 has been adjusted.</p>	<p>institutions</p> <p>Funding for innovative projects</p> <p>Activities in the field of planning and analysis of company resources</p> <p>Strategic HR</p>
85	7M04103 Management	<p>1. In the BD (VC) cycle, the discipline "Management Psychology" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education".</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p> <p>3. The discipline "Local Automation and Control Systems" has been excluded from the PD (EC) cycle.</p> <p>4. The description in ER 2 has been corrected.</p>	<p>Strategic HR</p> <p>Commercialization of an Innovative Project</p> <p>Professional standards for educators in educational organizations</p> <p>Educators (faculty) of higher and/or postgraduate educational institutions</p> <p>Management of a small (medium) company</p> <p>Quality management</p>
86	7M05101 Biology	<p>1. The discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education," and "Management Psychology" has been replaced by " " and "Psychology of Leadership and Team Interaction."</p> <p>2. The discipline "Bioinformatics" has been replaced by the discipline "Methods and Tools of Artificial Intelligence"</p>	<p>Professional standards for educators in educational institutions</p> <p>Educator (faculty) of higher and/or postgraduate educational institutions</p>
87	7M11102 Cultural and Leisure Activities	<p>1. In the BD (VC) cycle, the discipline "Management Psychology" has been replaced by the discipline "Psychology of Leadership and Team Interaction", and the discipline "Higher Education Pedagogy" has been replaced by the discipline "Modern Technologies and Teaching Methods in Higher Education".</p> <p>2. The discipline "Methods and Tools of Artificial Intelligence" has been included in the BD (EC) cycle.</p>	<p>Art Manager</p> <p>Teacher (faculty) of higher and/or postgraduate education institutions</p>

