

**MINISTRY OF AGRICULTURE OF THE REPUBLIC OF KAZAKHSTAN**

**JOINT-STOCK COMPANY**

**REPORT ON SELF-ASSESSMENT**

**EDUCATIONAL PROGRAMS**

**BACHELOR - 5B073200 STANDARDIZATION AND CERTIFICATION**

**MASTERS - 6M073200 STANDARDIZATION AND CERTIFICATION**

**Doctoral programme - 6D073200 STANDARDIZATION AND CERTIFICATION**

**WITHIN THE SPECIALIZED ACCREDITATION OF THE IAAR**





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**Astana, 2019**

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## DEFINITIONS AND ABBREVIATIONS

**Undergraduate:** Professional higher education curriculum with a normative term of at least 4 years with the award of an academic bachelor's degree.

**Master's program:** Vocational curriculum of postgraduate education with a regulatory period of development of 2 years (scientific and pedagogical areas); 1.5 and 1 year (profile direction) with the award of an academic master's degree.

**Individual curriculum:** A document compiled annually by a student for the academic year on the basis of the standard curriculum and the catalog of elective disciplines, and containing a list of academic disciplines for which he enrolled and the number of credits or academic hours; the individual curriculum reflects the educational trajectory of a particular student.

**Catalog of elective disciplines:** A document containing a list of academic disciplines, their volume, forms of intermediate control (term papers) determined by the higher educational institution independently, and offered to students for study of their choice.

**Credit technology of education:** Educational technology aimed at increasing the level of self-education and creative development of knowledge based on individualization, selectivity of the educational trajectory and accounting for the volume of educational material mastered in the form of credits.

**Component of choice:** A list of academic disciplines and corresponding minimum volumes of credits or academic hours offered by higher educational institutions, chosen by students independently and studied in any academic period.

**Work curriculum:** A document developed and approved by higher education institutions on the basis of a standard curriculum and individual curricula for students, taking into account the conditions of a particular professional activity, stages of the educational process: compulsory component, and the component of choice required for the development of students with an indication of credits or academic hours: the structure of the working curriculum is determined by the highest institution independently.

**Syllabus:** The discipline's curriculum, which includes a description of the discipline under study, its goals and objectives, a thematic plan reflecting the duration of each topic, a brief summary of them, independent work assignments, consultation time, the boundary control schedule, bibliography

**Model curriculum:** The main curriculum document developed on the basis of the state compulsory standard of education in the specialty and establishes the mandatory components in the form of a list of academic disciplines, united in the cycles of general educational code, database. PD indicating the minimum credits required for the development of students, forms of control, as well as additional types of training and final certification.

**Obligatory component:** A list of academic disciplines and corresponding minimum volumes of loans established by state compulsory education standards and studied by students on a mandatory basis under the program of study.

**Department of Academic Issues:** Service, providing the organization of various types of knowledge control, registering the entire history of students' academic achievements and calculating their academic rating, as well as issuing educational documents

**This self-assessment report uses the following abbreviations:**

MES RK - Ministry of Education and Science of the Republic of Kazakhstan;

MA RK - Ministry of Agriculture of the Republic of Kazakhstan;

HEI - Higher education institution;

KATU - Kazakh Agrotechnical University

SMES - state mandatory educational standards;

IAAR - Independent Accreditation and Rating Agency;

R W - research work;

SRW - student research work;

RWU - research work of the undergraduate;

EP - educational program;

TS – Teaching staff;

QMS - quality management system;

GE- general education;

BD - basic disciplines;

PD - majors;

SIW- students independent work

IWST - independent work of students under the guidance of a teacher;

IWU - independent work of undergraduates ;

EEEEA - external evaluation of educational achievements;

FSC - final state control;

AIC - agro-industrial complex;

RI - Research Institute;  
CYA - Committee on Youth Affairs;  
FSP - faculty of social professions;  
MM - mass media;  
JSC- joint-stock company;  
MC - model curriculum;  
TMC- teaching and methodical complex;  
TM- teaching materials  
MA - Ministry of Agriculture;  
WC - working curriculum;  
CED- catalog of elective disciplines;  
IEP - individualized education program  
ECS - educational complex of the specialty;  
EMC - educational and methodical council;  
MAP - modular academic program  
C - curriculum;  
ME - Midterm Examination  
PRS- point rating system  
FMC- final modular control  
CC - current control;  
AIS - automated information system;  
IT - information technology;  
SWOT –Strengths Weakness Opportunities Threats;  
ISO, ISO - The International Organization for Standardization;  
LLP - limited liability partnership;  
ECTS - European Credit Transfer System;  
QS - Quacquarelli Symonds  
EurAsEC - Eurasian Economic Community;  
HAC- the highest attestation commission;  
RSOE - Republican state-owned enterprise;  
UNT - unified national testing;  
CTA - comprehensive testing of applicants;  
PM and DM- personnel management and document management;  
DAA - Department of Academic Affairs;  
DEW- the department of educational work.

## NORMATIVE REFERENCES

In the implementation of educational programs for the preparation of Bachelor, Master and PhD of the specialty " Electric Power Engineering", the Department of "Electric Power Supply" operates in accordance with the regulatory acts of the Ministry of Education and Science of the Republic of Kazakhstan:

1 Law of the Republic of Kazakhstan dated July 27, 2007 No. 319-III "On Education" (dated July 15, 2011, as amended and supplemented); Model rules for the ongoing monitoring of progress, interim and final certification of students in higher educational institutions (No. 125 of March 18, 2008; amended by order of the Ministry of Education and Science of the Republic of Kazakhstan No. 94 of March 16, 2011);

2 Rules for the organization of the educational process on the credit technology of education (No. 152 of April 20, 2011);

3 Law of the Republic of Kazakhstan "On accreditation in the field of conformity assessment" dated July 5, 2008 No. 61-IV.

4 Rules of accreditation of educational organizations of the Republic of Kazakhstan. Resolution of the Government of the Republic of Kazakhstan dated December 29, 2007 No. 1385.

5 SCES RK 5.04.019-2011 "Higher education. Undergraduate. Basic Provisions", approved by the order of the Ministry of Education and Science of the Republic of Kazakhstan dated June 17, 2012. No. 261.

6 SCES of the Republic of Kazakhstan. Higher education. Undergraduate. The main provisions confirmed by the resolution of the Government of the Republic of Kazakhstan on August 23, 2012, No. 1080

7 Model rules for admission to educational institutions that implement professional curricula for higher education (approved by the Government of the Republic of Kazakhstan dated January 19, 2012 No. 111, as amended on April 19, 2012 No. 487, dated June 30, 2012 No. 896).

8 Development Program of "S. Seifullin Kazakh Agrotechnical University" JSC for 2011-2015 and others.

## GENERAL INFORMATION

<b>The name of the organization of education</b>	JSC “S.Seifullin Kazakh Agrotechnical University”
<b>Legal Details</b>	<p>The Republic of Kazakhstan, 010000, Astana, Pobedy Avenue 62</p> <p>Phone number: 8 7172 317547, 8 7172 393918, Fax: 8 7172 316072</p> <p>E-mail: <a href="mailto:agun.katu@g.mail.com">agun.katu@g.mail.com</a></p> <p>Web-site: <a href="http://www.kazatu.kz">www.kazatu.kz</a></p>
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<b>First Deputy Head</b>	Abdyrov Aitzhan Mukhamedzhanovich
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<b>Date of submission of 1 self-assessment report</b>	17.10.2018
<b>Information about the self-assessment procedure</b>	<p>The self-assessment procedure was carried out collectively, based on the principles of publicity and transparency. In drawing up the report on self-assessment, the commission was guided by the following methods: quantitative analysis, systematic, objectivity, comparative analysis, theorizing of generalization.</p> <p>The self-assessment report on the subject of institutional accreditation was approved at a meeting of the Academic Council of the University .2018 Protocol No. 3 dated 10.10.2018</p>



## **1 SUMMARY OF ACTIVITIES S.SEIFULLIN KATU**

### **1.1 Introduction**

Joint Stock Company “ S.Seifullin Kazakh Agrotechnical University ” ( KATU) is a subject of higher professional education of the Republic of Kazakhstan and operates on the basis of the Charter, approved by the order of the State Property and Privatization Committee of the Ministry of Finance of the Republic of Kazakhstan June 27, 2007 No. 350, certificate of state re-registration of legal entity No. 27388-1901-AK dated July 10, 2007

KATU is one of the largest multidisciplinary higher educational institutions in Kazakhstan. This university provides training of highly qualified specialists for various sectors of the economy of Kazakhstan, carrying out scientific research and training on their basis highly-qualified personnel.

KATU is among the 10 basic universities of the country, providing training for projects of the State program of industrial and innovative development of the Republic of Kazakhstan for 2015-2019. The priority sectors for KATU are “Agricultural Engineering”, “Food Production”. Partner of S.Seifullin KATU is the University of California at Davis (UC Davis, USA), the world's leading research university of agrarian profile, with which new educational programs are being developed.

The educational process is carried out by 889 teachers, 83 of whom are doctors and 376 candidates of science, 18 doctors of PhD. The degree of faculty is 53%.

For more than half a century, the university has trained more than 60 thousand highly qualified specialists for various branches of the country's agro-industrial complex, who have contributed and continue to make a worthy contribution to the development of the state's economy through their selfless work. The University is rightly proud of its graduates, among them employees of the Presidential Administration and the Office of the Prime Minister, deputies of the Senate and Mazhilis of the Parliament of the Republic of Kazakhstan, ambassadors, prominent scientists, candidates and doctors of science, Akims of regions, cities and districts, heads of large enterprises and agro-organizations, various spheres of national economy.

Currently, the university has 44 departments. Over eight thousand students in 37 specialties of undergraduate studies, 31 specialties of magistracy and 14 specialties of

doctoral studies of PhD study at eight faculties. Training of multilingual personnel is started in 8 undergraduate majors, 31 graduate specialties and 9 doctoral specialties.

Higher vocational education receive full-time and correspondence courses, including under the reduced educational program and on the basis of higher education. Depending on the form of study, the period of study is from 2 to 5 years.

On the basis of higher education, graduates of higher educational institutions receive a second higher professional education at the Institute for Advanced Studies and Distance Learning: the period of study is from 2 to 4 years, depending on the form of study.

Employees of enterprises have the opportunity to receive higher professional education at the Institute for Advanced Studies and Distance Learning under the full and abbreviated program. Duration of training from 2.5 to 5 years.

A great achievement of the University is the gold medal awarded by the Eurasian patent organization named after V. I. Blinnikov for his great contribution to the "Inventive and patent business". It should be noted that at present the University is the only owner in the Republic of such a prestigious award.

## **1.2 History S. Seifullin KATU**

“ S.Seifullin Kazakh Agrotechnical University” JSC was founded in 1957, when in the center of the vast virgin region of Akmolinsk, Akmola Agricultural Institute was established by Resolution of the Council of Ministers of the USSR No. 1176 ,October 3, 1957.

The decision to open a university was associated with the wide development of virgin and fallow lands in Kazakhstan, the opening of hundreds of new state farms and, as a result, the need for highly qualified specialists. Specialists were trained in three faculties: agronomic, land management and agricultural mechanization. The first admission was organized in 1958 and amounted to 250 students.

The Institute gradually expanded, becoming a major center of higher agricultural education and science. Over the next 20 years, other faculties were organized and opened.

In 1996, Government Decree No. 573 of May 7, 1996, the Akmola Agricultural Institute was reorganized into the Akmola Agrarian University, and was named after a prominent public figure and an outstanding personality of the Kazakh people - Saken Seifullin.

On the basis of the Resolution of the Government of the Republic of Kazakhstan No. 821 dated July 15, 2001, the State Enterprise “S. Seifullin Akmola Agrarian University ” was renamed CJSC “S. Seifullin Kazakh Agrarian University ”

On May 20, 2003, S. Seifullin Kazakh Agrarian University CJSC changed the type of society and acquired the abbreviation of S. Seifullin Kazakh Agrarian University.

In 2004, on the basis of the Resolution of the Government of the Republic of Kazakhstan (No. 829 dated August 3, 2004), the S.Seifullin Kazakh Agrarian University JSC was liquidated and the RSE was established on the basis of economic management of the S.Seifullin Kazakh State Agrotechnical University.

By the Decree of the Government of the Republic of Kazakhstan "Certain Issues of the Ministry of Education and Science of the Republic of Kazakhstan" (No. 300 April 4, 2005) the RSE on the right of economic management "S.Seifullin Kazakh State Technical University" was transferred to the Ministry of Agriculture of the Republic of Kazakhstan.

In 2007, on the basis of the Decree of the Government of the Republic of Kazakhstan (No. 409 of May 22, 2007), the university was reorganized into the S. Seifullin Kazakh Agrotechnical University.

In May 2013, speaking at a meeting of the Council of Foreign Investors, President of the Republic of Kazakhstan Nazarbayev N.A. proposed to organize on the basis of S.Seifullin KATU a world-class research university in the field of agriculture, following the example of Nazarbayev University. Distinctive features of the new status will be:

1) autonomous model of management following the example of the world's leading agricultural research universities, combining research, training and implementation of scientific results in real production and focused on integration into the world scientific and educational space;

2) own academic programs built on the basis of adaptation of the best programs of the world, with a focus on the development of practical skills of application of advanced achievements in the industry;

3) breakthrough scientific research, combining advanced achievements of fundamental and applied science, integrated into the educational process and based on partnership with world technological leaders;

4) developed tools for innovation, based on the constant "feedback" with the subjects of agriculture, including both mechanisms of commercialization of technologies and dissemination of knowledge.

Attracting leading foreign professors and scientists, combining their knowledge with the experience of domestic experts, the necessary competencies in all key areas of agriculture will be developed. As a result, upon completion of the transformation into a research agrarian University, S. Seifullin KATU will be positioned as (1) the main supplier of competitive innovations for agriculture in Northern and Central Kazakhstan, (2) the

most desirable place of work for teachers and the most desirable place for training for students, (3) undergraduates and doctoral students in the relevant specialties.

The main activities of the university are:

- personnel training with higher and postgraduate professional education, advanced training and retraining of personnel in the field of agriculture and other sectors of the economy;

- carrying out research and development work in the field of the agro-industrial complex and other sectors of the economy;

- introduction of scientific and technical developments in production.

The main activities of the university are:

- 1) training in accordance with the state compulsory education standard of qualified specialists for various sectors of the economy and social spheres;

- 2) the training of scientific and pedagogical personnel in the master degree, doctoral studies;

- 3) the organization and conduct of fundamental, applied research and development work, as well as methodological research in all fields of science;

- 4) professional development and retraining of specialists in various fields;

- 5) cultural and educational activities, participation in the process of mutual enrichment of the cultures of the peoples of Kazakhstan, dissemination and promotion of scientific knowledge;

- 6) the production and sale of printing products, teaching and methodological manuals, new technologies and scientific developments;

- 7) the organization and conduct of sports and recreational and sports activities, the creation of sports sections;

- 8) the conclusion with foreign organizations of direct contracts and contracts in all areas of primary activity, the creation of temporary teams of scientists and specialists, participation in the activities of international associations and organizations.

In 2015, a new KATU development strategy until 2025, KATU-2025, was developed and approved. Through its mission and strategy, KATU strives to become a research university of international level in the field of agro-industrial complex and related industries. The strategy “KATU - 2025” was approved at the meeting of the Academic Council on June 3, 2015, Minutes No. 20, and approved by the Board of Directors of KATU on December 14, 2015.

### **1.3 History of the department**

S.Seifullin Kazakh Agrotechnical University one of the first in the Republic of Kazakhstan, since 1999, began training specialists in the field of standardization, metrology and certification. Based on the recommendation of the Academic Council of the Kazakh Agrotechnical University. S.Seifullin, by the order of the rector No. 134 in June 16, 2004, was organized the department “Standardization, Metrology and Certification”.

The department "Standardization, Metrology and Certification" is organized to implement the educational program for the specialty 5B073200 - "Standardization, Certification and Metrology", as well as conducting training sessions in special disciplines of technical, agronomic, energy faculties and faculties of veterinary medicine and animal husbandry and computer systems

Currently, the Department of Standardization, Metrology and Certification is a graduate and carries out preparation and graduation of specialty programs 5B073200 - Standardization and Certification, 6M073200 - Standardization and Certification (training from the 2014-2015 academic year) and 6D073200 - Standardization and certification in the state and Russian languages. In addition, according to the educational programs of postgraduate education, a number of disciplines are taught in English.

The educational programs of specialty 5B073200 - Standardization and Certification and 6M073200 - Standardization and Certification in 2014 successfully passed independent specialized accreditation in the accreditation body - Independent Agency for Accreditation and Rating (hereinafter - the IAAR). On May 3, 2014, by the decision of the Accreditation Council of the IAAR, educational programs for the specialty 5B073200 - Standardization, Certification and Metrology (by industry) and 6M073200 - Standardization and Certification were accredited and awarded certificates for the full term - 5 years.

The educational programs of specialty 5B073200 - Standardization and Certification and 6M073200 - Standardization and Certification in the national rating of the IAAR occupy 7th and 8th places respectively.

The educational program of the specialty 6D073200 - Standardization and Certification, implemented from 2016-2017 teaching. , for the passage of independent specialized accreditation is declared for the first time.

Since 2005-2007, the department has produced 436 expert auditors, engineering experts in specialties 1601 and 4517 - “Standardization and Certification of Agricultural Products”, since 2007 - 446 bachelors.

During the reporting period (2015-2016, 2016-2017 and 2017-2018 academic years), 135 bachelors and 31 masters graduated.

The percentage of graduates' employment today is 63%. Graduates work in:

- Committee for Technical Regulation and Metrology;
- National Accreditation Center;
- Kazakhstan Institute of Metrology;
- Kazakhstan Institute of Standardization and Certification;
- Concern "Tsesna-Astyk";
- National Center for Expertise and Certification
- Kazakh scientific research institute of processing of agricultural products;
- advanced enterprises in the field of production and processing of agricultural products.

The department published all the necessary guidelines, work programs, manuals for laboratory and practical classes in all disciplines.

The training of specialists in the above-mentioned educational programs is carried out in accordance with the standard, working educational and modular plans of undergraduate, graduate and doctoral studies. The study of disciplines is based on the study of the cycle of general education, basic and specialized disciplines, which allow students to create the necessary knowledge base, increase their level of training, reveal their abilities and scientific interest. It also allows to prepare specialists in the field of establishing, implementing and monitoring the implementation of norms, rules and requirements for products (services), process (work) and the system, their development, production, use (consumption) and metrological support aimed at high quality and safety products and services, high economic efficiency for the producer and the consumer with modern knowledge that will be in demand by society in industrial enterprises of various industries, the authorities have been confirmed Compliance (products, services, systems and personnel), testing laboratories, state and quasi-state bodies, firms, research organizations, educational institutions, etc.

Description of educational programs specialty 5B073200-Standardization and certification, 6m073200 – Standardization and certification and 6D073200 – Standardization and certification is given in table 1.

Table 1 - description of educational programs

The name of EP	Form and duration of training	Qualification	Standard period of study and number of credits (according to ECTS)	Number of state licenses for the educational program	Contingent of students	Grant ——— contract

5B073200 - Standardization and certification	Full time, 4 years	Bachelor of Engineering and Technology	153	0062189 from 02.07.2008	169	26
						141
6M073200 – Standardization and certification (scientific and pedagogical)	Full time, 2 years	Master of Technical Sciences	59	0062189 from 02.07.2008	14	1 — 13
6M073200 – Standardization and certification (profile)	Full time, 1.5 years	Master of Engineering and Technology	48	0062189 from 02.07.2008	14	0 — 14
6D073200 – Standardization and certification	Fulltime, 3 years	PhD in specialty	75	0062189 from 02.07.2008	8	7 — 1

## 2 MANAGEMENT OF THE EDUCATIONAL PROGRAM

EPs are developed taking into account the national development priorities defined in the “Kazakhstan - 2050” strategy: maximum satisfaction of the current and future needs of the national economy for specialists in accordance with the NQF, SSC and consistent with the Dublin descriptors and the European Qualification Framework

The department has a plan for the development of educational programs in the specialty 5B073200 - “Standardization and Certification”, 6M073200 - “Standardization and Certification” and 6D073200 - “Standardization and Certification”. The development plan of the EP is a document that determines the strategy and tactics of improvement based on the planned, targeted and effective implementation of the planned goals of the EP. The development plan for educational programs - <http://kazatu.kz/assets/i/deps/sms-POP-ru.pdf>.

The development plan and objectives of the EP are developed in accordance with the educational policy of the Republic of Kazakhstan and the Academic Policy of the University. The purpose of the EP are high-quality educational services that meet the needs of the state, stakeholders and students. The circle of interested parties includes all participants in the implementation of the EP, as well as employers - large companies and enterprises, whose profile corresponds to the areas of training.

The formation of the EP Development Plan is carried out in accordance with the Bologna Principles of Education (Appendix 4 - the EP Development Plan for the specialty "Standardization and Certification"). To improve the EP and improve the competitiveness of graduates in the development and discussion of the Plan at the meeting of the department employers representing the interests of specialists in the field of standardization, metrology, certification and quality management of products - representatives of Concern Tsesna-Astyk, RSE KazInSt, KazNII agricultural products, the Committee for Technical Regulation and Metrology of the MID, the Republican State Enterprise “KazInMetr”, which express opinions on its structure, content and compliance with the Plan priorities of the development of Kazakhstan in this direction. Minutes of the meeting of the department (Appendix 5 - Minutes of the meetings of the department to discuss the development plan of the EP with the participation of employers) At such meetings, the interested parties make their proposals regarding the EP, replacing some of the studied disciplines with others, which at this stage of development of the country will be more relevant and give graduates the knowledge and skills that they will actually use in their work. These changes concern only elective disciplines. In addition, employers voice



some issues that would be desirable to consider when studying a particular discipline. All proposals of employers are considered at the meeting of the department, and a decision is made to amend both the EP and the curriculum (syllabus).

The department conducted an analysis of the provision of specialty information resources, staffing, material and technical base, taking into account the number of students studying, which showed that the provision of the department with all the resources will allow to implement this educational program. Taking into account the analysis of the provision of EP with resources, it is planned to recruit students for the next academic year.

Monitoring of the implementation of the Plan is carried out throughout the year, which is reflected in the protocols of the department with a mandatory discussion of achievements and shortcomings and, if necessary, adjustments are made.

The periodicity of the revision of the EP Development Plan complies with the requirements of the "Provision on the procedure for developing an educational program development plan and monitoring its implementation."

KATU has a documented Quality Policy and Quality Objectives approved at all levels of management, and are aimed at confirming that all the services provided by the University meet the requirements of consumers. Current updated versions of the Quality Policy and the Goals in the field of quality of the university from 01/17/2012.

In addition, the policy of quality assurance is reflected in detail in the following fundamental documents of the university: Vision, Mission, Strategy of the Kazakh Agrotechnical University. S.Seifullin "KATU - 2025".

The documents shown are published on the official website of the university and posted on information boards in all departments of the university. Those interested in the quality assurance policy of KATU can be found on the hyperlink <http://kazatu.kz/ru/ob-universitete/videnie-missiya-strategiya-ao-katu-im-s-seyfullina/>

The development, approval, approval, updating and, in general, management of documents reflecting the quality assurance policy is carried out by documented procedures adopted within the current certified Quality Management System for compliance with the requirements of ISO 9001: 2015.

MSS, technical and support staff, as well as trainees, access to the quality policy is ensured through the holding of department meetings, orientation sessions and seminars. The newly adopted staff reads the text of the quality assurance policy against the signature on the familiarization sheet. For students, undergraduates and doctoral candidates, the accessibility of the quality assurance policy is provided through the website, information stands, and through curatorial hours.

The quality assurance policy and the changes made to it are systematically communicated to employers as part of annual meetings with them to adjust the content of the EP. In addition, the university uses other channels of communication with employers and other stakeholders while ensuring the availability of a quality policy: media presentations on thematic round tables, seminars, conferences, meetings, exhibitions, fairs, etc.

In 2015, a new KATU development strategy until 2025, KATU-2025, was developed and approved. The main goal of this strategy is to consistently transform into a modern Western-style research agricultural university, where the emphasis will be placed on the close link between research, teaching and learning.

In the University's Vision, regarding the link between research, teaching and learning, it is indicated that KATU, through the implementation of the mission and strategy, seeks to become an international research university in the field of agriculture and related industries:

- with unique curricula that project the results of scientific research into the educational process, providing training for specialists with a fundamental education and developed skills for applying the knowledge gained in real production;

- actively implementing scientific results through the educational process ... ..”.

The quality assurance policy traces the logical interaction between the business community, the scientific community, faculty and students. For example, the Vision states that one of the ways to implement the mission and strategy of KATU is a competitive scientific potential involved in addressing priorities in a wide range of research areas, active implementation of scientific results through the educational process, dissemination of knowledge and technology commercialization.

In addition, close cooperation between the business community, the scientific community, teaching staff and students is incorporated in the KATU Strategy until 2025. Achievement of strategic goals will be carried out incl. and by solving the following tasks:

- expansion of scientific research, transfer of advanced knowledge and technologies in the areas of highest priority for Kazakhstan;

- modernization of the educational process through the introduction of unique educational curricula developed on the basis of its own scientific results with the participation of employers, leading domestic and foreign professors and scientists;

- the development of multilingual education and the formation of the English-language language environment in order to transfer the missing competencies and prepare graduates in accordance with generally accepted standards in the world;

- modernization of educational, research, production and experimental and social infrastructure to improve the educational process, the living conditions of students and faculty, etc.

Mechanisms for implementing the relationship between the business community, the scientific community, faculty and students are:

1) the organization of dual training in EP (for example, practical training in the discipline "Metrological support of the enterprise" on the basis of RSE "KazInMetr", etc.);

2) coordination of the structure and content of EP with the business community, the inclusion in ESC of new disciplines, initiated by enterprises of the industry, research organizations of agricultural and technological profile;

3) employment of graduates in the farms and enterprises of the industry, research organizations, government bodies and enterprises;

4) the organization and conduct of annual graduates of the EP;

5) participation in scientific projects and programs of the business community as a beneficiary of the final technology and finished products;

6) organization and conduct of technological and personnel audits;

7) systematic questioning of potential employers of the EP;

8) expansion of educational, research, production and experimental and social infrastructure to improve the educational process, living conditions of students and teaching staff, etc. ;

9) the organization of professional practices and scientific internships for undergraduates and doctoral students on the basis of industry enterprises, research organizations, government bodies and enterprises;

10) writing expert opinions on draft regulatory documents on standardization, initiated by the business community and other interested parties.

With the adoption of a new version of the quality assurance policy (Vision, Mission, Strategy "KATU - 2025"), approved by the decision of the Board of Directors of KATU. S.Seifullin in December 14, 2015, there were changes in the quality assurance management system at the university level and EP management, where project management, identification and personalization of responsibility, provision of responsible executors with financial, material and organizational resources necessary for the realization of the goals and objectives are welcomed quality policy.

The strategic objective of the Vision, Mission, Strategy of the Kazakh Agrotechnical University. S.Seifullin "KATU - 2025" is the desire and transformation from the traditional classical university to a research university in the field of agriculture and related industries.

In addition to this strategic objective, the policy of quality assurance provides for tactical objectives aimed at achieving target indicators, measures and indicators of the results specified in the state program documents <http://kazatu.kz/ru/ob-universitete/videnie-missiya-strategiya-ao-katu-im-s-seyfullina>

It should be noted that for 2.5 years no changes and additions have been made to the above document (quality assurance policy), since all the goals and objectives set out in it are relevant and are at the stage of active implementation. This is the result of effective forecasting and planning from the top management of the university.

The degree of satisfaction of employees, students, graduates, as well as employers with the level of services provided by the university, as well as the conditions created for work and education, is determined by conducting a survey and a sociological survey conducted by a sociological laboratory. Developed provisions on the procedure for conducting sociological research in JSC "S.Seifullin KATU" and the Regulation on the procedure for managing the feedback procedure in JSC "S.Seifullin KATU".

To study the external environment, a survey of employers about the level of knowledge of university graduates is conducted. In the study of the internal environment, employees and students are surveyed about the conditions of study and work, about the security of the workplace, about the quality of services provided, about the quality of dining rooms, wardrobe, etc. Surveys are conducted on the subject of corruption at the university and religious extremism.

The implementation of the goals and objectives of the Vision, Mission, Strategy of the Kazakh Agrotechnical University. S.Seifullin "KATU - 2025" and the ongoing changes related to the implementation of certain provisions of the above documents have a positive effect on the image of the university and the EP. For example, in May 2018, according to the rating of the IAAR, KATU took the 4th place in the ranking of the best universities of Kazakhstan, 49 EP KATU are among the top three in the Republic of Kazakhstan. In 2017, the "Kazakhstan 2050 - National Rating in Innovation and Academic Excellence" rating in 2017, S. Seifullin KATU ranked 11th in the "General Ranking of Universities - 2017". 21 well-known scientists from 10 countries of the world participate in research projects of KATU, among them are professors of universities in Germany, Australia, Italy, Bulgaria and other countries. 513 million tenge was directed to research at KATU in 2017. 3000 students annually enroll in KATU for higher education, and the number of applications for the competition in the regions of the country is more than 4 thousand. By the number of state grants awarded, the university consistently ranks among the TOP-5 universities of the Republic of Kazakhstan.

At the university, the quality assurance system is based on the current certified quality management system. The university administration and the faculty are actively involved in ensuring the quality of education, according to the approved job descriptions. The participation of the administration, faculty in all areas of activity in the implementation of the Policy and the objectives in the field of quality is carried out systematically through the preparation of annual and strategic (prospective) work plans, on the basis of which the current work of the administration, management of the EP, staff and faculty is carried out. Indicators and achievements of current activities are analyzed at the meetings of the department, the faculty council, the educational and methodological council of the university, the administration, the academic council at least once a month. Students are active participants in the educational process: student self-government functions at the university, students form part of collegial bodies, and corrective actions are taken to improve the quality of educational programs based on the results of sociological surveys of students.

Continuous improvement of the quality assurance system is ensured by solving the following tasks:

- the formation in the university and the department of the situation, contributing to the involvement of workers in the active search for opportunities to improve EP;

- - evaluation of the effectiveness and efficiency of life cycle processes based on the analysis of data obtained during measurement and monitoring;

- - development of an optimal solution that eliminates the root cause of the problem and prevents its recurrence;

- - introduction of a new solution into the life cycle process;

- - evaluation of the effectiveness and efficiency of the process after completion of the improvement actions.

- To improve the educational program, the university has agreements on mutual cooperation with other Kazakhstan and foreign universities. Agreements on joint educational programs are concluded, which allows organizing academic mobility of students.

Requirements for educational institutions to conduct external academic mobility and practice bases are recorded in the following documents:

- Regulations on the organization of external academic mobility of students at the S.Seifullin Kazakh Agrotechnical University;

- The procedure for organizing and conducting practical training of students;

- The order and organization of the practical training of undergraduates / doctoral students.

In case of detection by the leadership of a discrepancy between the implemented EP, its development plan is re-examined on the basis of the actual positioning of the EP at a department meeting with the participation of all interested parties and corrections are made to it, corrective and preventive actions are developed.

Analysis of the real positioning of the EP is carried out by the head of the department with the involvement of competent faculty in order to improve and continuously improve the quality of the EP, taking into account the real needs of the market there. The results of the analysis of the real positioning of the EP showed that the set of key competencies needed by employees to successfully achieve the strategic goals of the company, have changed. The results of the analysis were used in the revision of the structure and content of ESC in the EP for 2017-2018 and 2018-2019 acc. years (Appendix 6 - Minutes of the department meetings on the revision of the structure and content of ESC in EP for the 2017-2018 and 2018-2019 academic years).

For example, in ESC 2018-2019 account. years, new disciplines were introduced, demanded by time and the need for new competencies: "Standardization and certification of organic production", "Safety systems for raw materials and food products of livestock" and "Safety systems for raw materials and food products of crop production", etc.

In the teaching of the above disciplines within the framework of the EP, the authorized state bodies in the field of food safety, authorized state bodies in the field of production and turnover of organic products (see the State Program for the Development of Agro-Industrial Complex of the Republic of Kazakhstan for 2017-2021), farmers cooperatives, food processing and food processing enterprises, conformity assessment bodies, testing laboratories, research organizations anizatsii, non-governmental organizations in the field of consumer protection and the protection of rights, the environment, etc.

The share occupied by EP in the market of educational services currently stands at 12%. In the future, with the adjustment of the educational policy of the EP, clarification of the matrix of students' competencies in the specialty "Standardization and Certification", this indicator has real growth prospects.

At the end of the school year at the meeting of the department with the participation of all stakeholders (faculty, employers, student representatives) self-evaluation of the EP is carried out, taking into account the changes made, the achieved results, the effectiveness and efficiency of the EP implementation are discussed. The input data for self-assessment

are the reports of faculty members, representatives of employing organizations, the analysis of disciplines chosen by students (from ESC). The results of the self-assessment are reflected in the minutes of the department meeting. In addition, the head of the department compiles a report on the work of the department, which reflects the development path of the EP (Appendix 7 - Minutes of the department's meeting to review the report of the acting head of the department Zh.Nurlankyzy on the development of the EP).

In case of detection by the management of the EP of a discrepancy in the implementation of the EP, its development plan is re-examined at a department meeting with the participation of all interested parties and corrections are made, corrective and preventive actions are developed.

The university has an approved procedure for managing the EP development plan - Regulations on the procedure for developing an educational program development plan and monitoring its implementation. The head of the department with the involvement of faculty is involved in monitoring the development plan of the EP in order to ensure continuous improvement.

At the Department, on a systematic basis, the analysis of the provision of specialty information resources, personnel, material and technical base, taking into account the number of undergraduate, graduate and doctoral students. The results of the analysis showed that the availability of resources will allow the Department to implement these EP. Taking into account the given analysis of EP resources provision, it is planned to recruit students for the next academic year.

The performance of the EP is assessed by generally accepted criteria and indicators: average performance, results of the EEEA, results of the SCC, the share of employment of graduates, etc. In addition, the assessment of the results of students at the university is carried out in accordance with the standard of the organization "Monitoring and Evaluation of Students' Knowledge". Monitoring and evaluation of students' knowledge in the credit system of education is carried out on a point-rating system (hereinafter referred to as the CS). The CS assumes the carrying out of the current (further CC), mid-term (further ME) and final control (further FC) of students' knowledge.

All planning mechanisms used by the administration of the EP, are detailed in the documentation of the functioning quality management system of the university.

In drawing up and shaping the development plan for EP, proposals from stakeholders - employers, students, undergraduates and doctoral students play a key role. In addition to representatives of students, undergraduates and doctoral students, representatives of the

business community are selected by the specialty profile, government bodies and enterprises where there are structural subdivisions in the field of technical regulation. The EP fully guarantees the representativeness of the interested persons, i.e., the interests of the individual representative of the group and the group as a whole.

The EP management is a guarantee that all constructive suggestions and recommendations received from interested parties will be taken into account in the content of the EP development plan, in some cases after the disagreement is removed. All representatives of interested parties have the right to vote in approving the development plan of the EP. In the practice of approving and approving the EP development plan, there were no cases of voting by representatives of interested parties against, which indicates a detailed elaboration of the draft EP development plan, taking into account all the constructive suggestions and recommendations.

The EP management develops a development plan for EPs in cooperation with interested parties, taking into account the indicative goals and objectives of the State Program for the Development of Education of the Republic of Kazakhstan for 2011-2020, the State Program for the Development of the Agro-Industrial Complex of the Republic of Kazakhstan for 2017-2021, Vision, Mission, Strategy of the Kazakh Agrotechnical University S.Seifullin "KATU - 2025" and the Development Strategy of the Technical Faculty. The activities of the Development Plan of the EP correspond to the development trends of the business community, since the plan was developed taking into account all the proposals and recommendations received from interested parties.

As mentioned above, the development plan of the EP is consistent with the strategic documents of the university. For example, in the Vision of the university it is indicated that KATU, through the implementation of the mission and strategy, is striving to become an international research university in the field of agriculture and related industries with unique curricula that project the results of scientific research into the educational process, providing training for specialists with fundamental education and advanced skills application of acquired knowledge in real production. The EP Development Plan provides for the acquisition of theoretical knowledge and the formation of key competencies necessary to solve production problems facing the business community.

The development plan of the EP is aimed at meeting the current and expected (prospective) needs of the following parties:

- farmer and peasant farms, agricultural cooperatives;
- enterprises of the processing and food industry;



- bodies to confirm the conformity of products, services and systems, testing laboratories;
- educational and research organizations;
- government bodies and their subordinate enterprises;
- public organizations in the field of consumer rights protection and environmental protection, etc.

The educational policy of the university is implemented in the events provided for in the development plan of the EP. The leadership of the EP in the development and coordination of the development plan of the EP conducts an analysis of the compliance of the included activities with national priorities and development strategies of the university and the faculty.

The strategic documents of the university correspond to the national priorities of the country indicated in the following strategic and program documents of Kazakhstan:

- Strategy "Kazakhstan-2050";
- The state program of infrastructure development "Nurly Zhol" for 2015 - 2019 (in terms of improving the competitiveness of the subjects of the agro-industrial complex; ensuring product quality safety through the development of laboratory facilities);
- The strategic development plan of the Republic of Kazakhstan until 2025 (in terms of improving the competitiveness of the economy and the development of a green economy and environmental protection);
- State program of industrial-innovative development (in terms of advanced development of the manufacturing industry);
- State program of development of the agroindustrial complex of the Republic of Kazakhstan for 2017-2021;
- State Program for the Development of Education of the Republic of Kazakhstan for 2011-2020.

It should be noted that this development plan of the educational program contributes to the implementation of the strategic goals of the university, indicated in the Vision, Mission, Strategy of the Kazakh Agrotechnical University. S.Seifullin "KATU - 2025". Namely, the development of unique curricula, projecting the results of scientific research into the educational process, providing training for specialists with fundamental education and developed skills for applying the knowledge gained in real production; modernization of the educational process through the introduction of unique educational curricula developed on the basis of its own scientific results with the participation of employers, leading domestic and foreign professors and scientists, etc.

The uniqueness of the accredited EP lies in the fact that it accumulates all relevant and promising professional competencies necessary for the implementation of future functions. In addition, the structure of the EP provides 2 educational paths for teaching students: "Standardization and certification of agricultural products" and "Safety and quality management of agricultural products." As is known, an individual educational trajectory is a personal way of realizing the personal potential of each student in education, taking into account the needs of enterprises and organizations of the industry.

In a higher educational institution, within the framework of a functioning QMS, the distribution of responsibility for business processes within the framework of EP management is clearly defined in job descriptions. Maintaining the QMS in working condition is carried out through the improvement of the internal regulatory framework, which consists of more than 300 documents, by systematically conducting an internal audit, as well as inspection control by the certification body.

Any incorrect distribution of staff duties and improper demarcation of the functions of collegial bodies within the EP is identified in the process of analyzing the development plan and in the course of writing the report "Management Review", then a management decision is made to eliminate the identified inconsistencies.

There is an exhaustive base of these internal normatively-legal acts regulating all basic business processes within the framework of the educational program in the university. The managerial staff and authorized persons accountable for functioning and development of the SMQ in the structural subdivisions of institution of higher learning have an access to this base.

With the base of internal documents it is possible to become familiar on the reference <http://kazatu.kz/assets/i/deps/klassifikator%2007.09.2017pdf.pdf>

External normatively-legal acts regulating basic business processes within the framework of the educational program are the documents of direct action or they are processed and adapted to the real terms of institution of higher learning and to the certain business processes and get the status of the adapted internal documents.

Changes brought in NPA published by the authorized public organs (for example, MES of the republic of Kazakhstan and Ministry of Agriculture) entail the change of list and maintenance of documents regulating business processes within the framework of the educational program.

The distribution and delegation of responsibility mechanisms among the personnel, structural subdivisions (departments, chairs, faculties) and collective organs exist in the institution of higher learning. The detailed distribution of responsibility mechanisms in

detail are expounded in post instructions, positions about subdivisions and positions of creation and functioning of collective organs.

For demonstration of unambiguity of distribution and delegation of responsibility during the realization of the educational program it is necessary to bring the self-controls over the text quotes from the provisions concerning the dean's office and position the department. For example, the dean's office has the following functions:

- organization of the academic and methodological work, advanced and educator study on the faculty;

- organization of implementation of modular educational codes on directions and specialties of the faculty;

- provision of all stages of the professional educational programs;

- planning of academic and methodological work, scientific-methodical activity, organizational-methodical activity, co-ordination of the educators' work and organization of the educational work;

- control after the condition of classrooms and other office space, and also material values and another property which is at disposal of dean's office (together with administrative part of university);

- organization of vocational orientation work with

According to the Provisions about the activity of the departments which work with the graduate students, the department carries out the complex methodical providing including the preparation of textbooks, train aid, executable codes of educational disciplines, compendia of lectures, methodological materials on realization of all types of lessons envisaging the use of the most expedient forms and teaching methods, rational combination of different methodical receptions, effective use of present modern educational technique and laboratory equipment. The department organizes the permanent control after the quality of teaching and mastering of all envisaged educational disciplines. At the meeting of the department the results of intermediate and final attestation of student, sufficientness of amount of current forms of control of knowledge on disciplines and their accordance to the educational standards, the level of requirements during realization and current and intermediate control are analysed,. The teachers of the department carry out the planning and guidance of the self study of the students. The consultations are held for the organization of assistance to students in the independent development of theoretical material, the implementation of term papers (projects).

The supervision of the educational process provides the transparency of control system of EP, takes all information and accepted administrative decisions to the student. In

these aims the supervision of the educational program use all channels of communications : adviser's classes, consultation classes, informative stands, system "Platonus", web-site of university, educational portal of institution of higher learning, social network of "Facebook" and newspaper "My university".

All the structures of institution of higher learning are involved in the supervision of the educational program: the department of standardization, metrology and certification that provides planning, development, monitoring, actualization, verification of EP, structural subdivisions of university - dean's office, department on academic questions, department of service of quality and etc. They provide a statement, introduction, verification, monitoring, official accompaniment of EP, perfection of organization of processes of licensing, accreditation of the educational programs etc. The following collective organs manage the educational process- Scientific Council of university and faculties. The Scientific Council of faculty and university include the representatives of student and employers. The leaders of scientific organizations, researchers, specialists of industries of economy and organs of state administration can be also included in the scientific Council.

Availability for parties concerned to the records, protocols of meeting of foregoing collective organs, to positions about organization of work is provided using not all communication channels.

All activity of the educational programs of speciality 5B073200 "Standardization and certification", 6M073200 "Standardization and certification" and 6d073200 - "Standardization and certification" (further - EP) are harmonized and fully concerted with the Vision, Mission and Strategy of S.Seifullin Kazakh agrotechnical university "KATU - 2025".

Internal system of providing of quality of EP based on the foregoing fundamental documents, documents of SMQ and administrative decisions successfully functions and managed (including planning, development, monitoring, improvement) effectively. Successful functioning of the internal system of providing of quality of EP arrived at due to making decision (by collective organs, by the management of EP, by the dean of faculty) on the basis of analysis of facts.

Activity of the internal system of providing of quality of EP is sent to planning, realization, estimation and permanent improvement of the system and competitiveness of student.

The guidance of EP carries out the management of risks in accordance with the requirements of "The provision about the order of determination and management of risks in "S.Seifullin Kazakh agrotechnical university ".

The management of EP exposes risks in the development of plan on the management of risks according to the form given in the Appendix 11010.146 of the SMQ.

The department on academic matters provides the collection and analysis of estimation of risks on each EP by the 1<sup>st</sup> of November. According to the model the guidance of EP fills the table "The risks on the educational programs" in the AES "Platonus", an obligatory step is filling of the column the "Confirmative documents" on every criterion.

Efficiency of policy of quality is achieved due to the systematic analysis of the situation folded in higher education, research of external and internal risks by means of methods of the strategic planning (SWOT- of analysis).

Different activities on the decline of influence of risks for EP are conducted at the department. For example, on the basis of SWOT-analysis the risk "Shortage of scientific and pedagogical shots" is educed and the activity on training of highly skilled scientific personnel through the magistracy and PhD studies at the level of modern requirements is determined.

The possible risks for EP are the following: disparity of the offered set of educational services to the requirements of the market, reduction of amount of graduates entering the university, ineffective skilled policy at the level of the department, as a result the subzero competence of the teaching staff.

In the program of plan of development of EP on all foregoing possible risks the corresponding warning activities have been worked out.

The management of EP provides the participation of representatives of the interested parts (employers, teaching staff, student) in the structure of the next collective organs of management of EP: Academic Council of university, Methodical Council of university, the Council of the faculty, Methodical Commission of the faculty.

The choice and appointment of the interested parts (employers, teaching staff, student) in the complement of foregoing collective organs, aim of attraction of the interested parts in the process of these organs, guarantee of representativeness at making decision on questions of management of EP are given in detail in the next documents of SMQ of the institution of higher learning :

- Provisions concerning the Academic Council of university;
- Provisions concerning the Faculty Council;

- Provisions concerning the methodical Council of university;
- Provisions concerning the methodical commission of the faculty.

The teaching staff is also presented in the collective organs of the management of institution of higher learning and faculty. For example, the lecturer of the department Zh.Nurlankyzy is a member of the Academic Council of university, professor A.Kanayev., D.Kurmangaliyeva acting as a professor and Zh.Nurlankyzy are the councilors of the technical faculty. Zh.Nurlankyzy and S.Romanenko are the members of the Methodical commission of technical faculty.

There is a asserted Program on wide introduction of innovative technologies in the educational process of the department "Standardization, metrology and certification" on 2016-2020 approved by the Academic Council of the institution of higher learning and ratified on April, 28, 2016 (Appendix 8).

The program on wide introduction of innovative technologies in the educational process of department "Standardization, metrology and certification" on 2016-2020 includes the analysis of current status on application of innovative technologies on the department, aims, tasks and a special purpose indicators of introduction of innovative technologies in the educational process, basic directions and ways of achievement of the put aims, the expected results of the realization of this program.

The innovative methods of teaching are actively used in the educational process. There are interactive projectors by means of that the teachers can show the slides, multimedia lectures and etc. There are electronic lectures and slides on some disciplines of the department. For example, on disciplines "Interchangeability, standardization and technical measuring" (senior teacher-A.Gulyarenko) and "Test, control and safety of products" (senior teacher S.Baizahanov) there are electronic lectures and slides. For perfection of this methodology of teaching the teaching staff of the department works on further development of electronic lectures. Interactive educational methodologies are worked off by teachers during current control too. The current control is held by teachers in the process of practical, seminar, laboratory classes in the next forms: verbal and combined questioning, writing control, presentation of home tasks, discussions, trainings, business games, round tables and etc.

The management of EP is open and accessible for the students, the teaching staff, employers and etc.

The management of university worked out the document about the reception of visitors. The guidance distinguish certain hours during which the employees, students, parents and other interested parts can be written down on a reception to the rector of

university. The dean's office and the departments have also a chart of reception of visitors to the dean and heads of the chairs.

There is a blog of the rector on the web-site of university [www.kazatu.kz](http://www.kazatu.kz), where it is possible to appeal to the rector with different vital questions. Also on a web-site it is possible to find the electronic addresses of the deans, heads of the chair and teachers and directly to appeal to them. The decisions on complaints and suggestions, depending on their scale are made directly by the person to whom an appeal is addressed or examined at the meeting of the department, Council of the faculty or Academic Council of university.

On the system basis, according to the ratified program of improvement of qualification the management of EP is taught in accordance with the programs of management of the education. There are different certificates and diplomas that is kept in their portfolio. For example, the teacher of the department "Standardization, metrology and certification" M.Serekbayeva completed the course on the programs of management of education in Kazakhstani academy of pedagogical sciences on the topic: "The ways of solution of quality of the secondary and higher education", Astana,2016(Appendix 9).

The management of EP provides the permanent perfection of processes within the framework of the educational program taking into account the recommendations received from the external organization of providing the quality.

External organizations of providing the quality are the following: the Independent agency of accreditation and rating (within the framework of independent institutional and specialized accreditation).

Institution of higher learning observes the changes happening since the last procedures of providing the quality. For example, the management of EP will realize the recommendations of external expert commission of the Independent agency of accreditation and rating. On results of the conducted works on realization of recommendations the report is made and directed to the agency on accreditation.

All recommendations and offers to institution of higher learning and management of EP given within the framework of the last procedures of the external providing of quality from the side of organ on accreditation of HAAP have been implemented. The course of performance is given in the chapter "Recommendations of external expert commission of the Independent agency of accreditation and rating for the educational programs 5B073200 "Standardization and certification", 6M073200 "Standardization and certification".

Management of the educational program:

- to conduct an analysis and perfect the plans of development of the educational programs in accordance with the operating Strategies of development of institution of higher learning and faculties;

- to conduct the estimation of risks of development of the educational programs.

- to strengthen the role of the teaching staff in the development and examination of the MEP, to complement the worked out model of graduating student of EP "Standardization and certification" for two levels of education (BA-MA) taking into account the national qualifying scopes and necessities of key employers in the standard "Specific of the educational program"

- to strengthen the work on attraction of the best foreign and home teachers within the framework of academic mobility in the standard "Faculty advisors and teaching efficiency"

- to strengthen the work on development of multilingual education at the level of bachelor studies including the creation of conditions for the students' choice of language in the study of separate modules without depending on the language of educating;

- to consider the possibility of increase of amount of the dual educational programs.

- the standard "students":

- to organize the realization of methodical seminars for the teaching staff involved in the realization of EP;

- to inform the teaching staff and other employers about the aims and tasks of the MEP

- to provide the possibility of professional certification of student;

- to enter educational courses forming the students' the competences sent to the employment and development of career.

- The standard "Resources accessible to the educational programs":

- to improve the provision of educational process modern methodological, scientific and normative literature, first of all in Kazakh and English languages;

- to strengthen the work on introduction of innovative technologies to the educational process.

The considered standard "Management of the educational program" on EP of the specialty "Standardization and certification" showed on the whole that the activity of the department in accordance with the criteria of accreditation EP has the next positive indexes:

EP were worked out taking into account the national priorities of the development determined in the strategy "Kazakhstan - 2050": maximal satisfaction of the current and



perspective necessities of national economy in specialists in accordance with NRK, ORK and concerted with the Dublin descriptors and European scope of qualification.;

Standard considered on the whole "Management by the educational program" on OII specialties "Standardization and certification" showed that activity of department in accordance with the criteria of accreditation of EP has next positive indexes:

EP is worked out taking into account national priorities of development, certain in strategy "Kazakhstan, - 2050": maximal satisfaction of current and perspective necessities of national economy in specialists in accordance with HPK, OPK and concerted with the Dublin descriptors and European scope of qualification.

The mission aims and tasks are executed within the framework of certain priorities of development. The corresponding financial, skilled and material resources are distinguished on it. They provide the realization of EP in the conditions of changing socio-economic environment.

SWOT- analysis of the standard "Management of the educational program"

S (strength) are strong parties (potentially positive internal factors)	W (weakness) are weak parties (potentially negative internal factors)
In institution of higher learning there is the ratified procedure on the management of the plan of development of EP. The provision about the order of development of plan of development of the educational program and monitoring of its realization	The weak use of communication channels for providing the availability for parties concerned to the records, protocols of meeting of collective organs, positions about organization of work of these organs, orders of heads and notice of meetings on EP
New strategy of development of KATU till 2025 "KATY - 2025" has been worked out and ratified. The primary purpose of this strategy is the successive transformation in the modern research agrarian university of western type, where an accent on close connection between scientific researches and teaching will be done	
The logical cooperation between the business-association, scientific public, teaching staff and students is traced in	

politics of providing of quality	
Presence of components for preparation to professional activity in the educational program	Absence of preparations of students to the applied professions in EP
Presence of effective mechanism of continuous internal estimation of quality and examination of the educational program	The internal estimation of quality of the educational program requires further perfection
O (opportunity) are favourable possibilities (potentially positive external factors)	T (threat) are threats (potentially negative external factors)
High highly sought at the market of labour of graduating students	Insufficient awareness of employers about the professional activity of graduating students

The analysis of the educational program showed that along with strong sides there are some weak sides that require further perfection of the educational program that will allow to carry out the training process more effectively.

10 criteria of the given 17 have strong positions, 7 criteria have satisfactory positions. For the strengthening of positions on the separate criteria of this standard within the framework of management the educational programs it is necessary to work out the questions with the partners of institution of higher learning on support of academic mobility of students; to define the responsible personnel for business processes within the framework of the educational program, to distribute post duties of the personnel and to differentiate post duties of the personnel; the management of EP should pass the training on the programs of management of education.

#### Plan on the removal of weak sides of the educational process

№	Weak sides	Measures
1	Weak use of communication channels for providing of availability for parties concerned to the records, protocols of meeting of collective organs, positions about organization of	To provide the availability for parties concerned to the records, protocols of meeting of collective organs, positions about organization of work of these organs, orders, notice of meeting on

	work of these organs, notice of meeting, orders on educational programs, etc.	consideration of processes of management of the educational programs
2	Absence of preparations of students to the applied professions in EP	To organize preparation of students on the applied professions (metrologists, public experts-accountants)
3	The internal estimation of quality of the educational program requires further perfection	To examine regularly the estimation of quality of the educational programs
4	Insufficient awareness of employers about the professional activity of graduating students of EP	To promote the awareness of employers about the professional activity of graduating students of EP with the use of all of communication channels

### 3 MANAGEMENT OF INFORMATION AND REPORTING

Accompaniment of the educational proces by information technologies (including functioning of the system of collection, analysis and management by information on the basis of application of modern of informatively-communication technologies and programmatic facilities) is implemented by the Council of informatization. The Council of informatization of S.Seifullin Kazakh Agrotechnical university is the constantly operating co-coordinating-deliberative and scientifically-consultative organ of the Academic Council of institution of higher learning in area of solution of tasks on the use and development of information technologies.

The activity of the Council of informatization is regulated by the Provisions about the Council of informatization of S.Seifullin KATU.

There is a web site <http://kazatu.kz>. On a web-site there is information about the institution of higher learning and specifics of the educational programs. There is a blog of the rector where the teaching staff and students can apply with complaints. It is also possible to find an e-library.

The educational portal <http://platonus.kazatu.kz/> functions in the university. There are the personal pages of the teaching staff on the portal where the information about publications, courses of in-plant training is placed. For students the electronic addresses of teachers are accessible, the students can appeal on different questions.

The system use of the treat, adequate information for the improvement of the internal system of providing of quality and its continuous improvement in detail are prescribed in the Guidance on quality

The Service of quality on the basis of the documented procedure the "Internal audit" conducts the internal audits on all processes realized in the structural subdivisions of university.

Within the framework of the educational program the system of the regular accounting reflecting all levels of structure including the estimation of effectiveness and efficiency of activity of departments comes true. For example, at the Meeting of the Council-board of faculty in accordance with chapter 7.4 of the "Statute about the Council of faculty" the reports on realization of basic events on development of educational process, perfection of its methodical providing and organization of self study work of students, master students and doctoral students; the lecturers make reports on organization of the educator work; the

plans and reports of research works are examined; the reports of the department on the results of the students' activity are considered; the analysis of the state of department on questions of educational, methodical, scientific is conducted.

The periodicity, forms and methods of management estimation of the educational, the activity of collective organs and department is determined by the provisions "Planning and estimation of activity of university. All collective organs and structural subdivisions including the department are engaged in the process of estimation. Periodicity of realization of estimations of activity depends on the certain realized processes. Methods, forms and structure of reports are prescribed in positions about the structural subdivisions and collective organs. The decision is made at the level of university, faculty and department on results of the level of reports and received information.

The department annually develops the aims in the area of qualities that is examined at the meeting of the department. At the end of school year the head of the department makes an analysis of achievement of aims, the results are discussed at the meeting of the department. In case of not implementation of the pre-arranged events the correcting actions are made. The worked out aims in area of quality of S.Seifullin KATU are analyzed and summarized by the representative of management in quality and dart out on the discussion of the Coordinating Council in quality. On results of the conference of Coordinating Council makes the summary list of aims in area of quality that becomes firmly established by the chairman of the Board. The meeting of Coordinating Council makes an analysis and estimation of politics and aims in the area of quality.

In accordance with the provisions "About the policy of informative safety in S.Seifullin KATU " the order of providing of protection of information has been determined and responsible personnel for authenticity and timeliness of analysis of information and grant of data has been appointed.

In institution of higher learning the providing of informative safety includes any activity sent to protection of information and/or supporting infrastructure. Policy of informative safety embraces all automated and telecommunication systems the proprietor and the user of that is S.Seifullin KATU. The inalienable part of organization of protection of information is the continuous control of efficiency of the undertaken measures, determination of the list of impermissible actions, possible consequences and responsibility for the personnel of S.Seifullin KATU

All the information material worked out in the university by the employees of the DIS are the property of university. Printing-down and transmission by the third persons is strictly forbidden. Initial codes and structure of Database must be kept on the server for a

reserve printing-down. Safety and actuality of source codes and Database is implemented by the chief of the department of development and accompaniment of software. DIT conducts the monitoring and analysis of the network infrastructure of S.Seifullin KATU, exposes the violation of rules of the use a network equipment and local network. Department of information technologies conducts the monitoring of the created informative AIS and gives out the data for authorizing. It produces the blocking of users of informative AIS at the exposure of violation of points of password policy and at the receipt of official message on blocking of account. At the exposure of violation of rules of the use by the local area network and at the use of AIS in not productive aims DIT initiates the application of disciplinary penalty to the violator. Annually at the beginning of the school year the director of DIT conducts the seminar on informative safety at the level of heads of subdivisions.

The policy of informative safety determines the requirement in the next areas of providing of informative safety: policy of network safety; password policy; policy of protection of servers; anti-virus policy; rules of access to the network the Internet.

Procedure about reserve printing-down of information is expounded in MI SMQ, 110. 28- 2016.

In the process of collection and analysis of information, and also making decision on their basis the students, master students, doctoral students, the teaching staff, employers are involved. The basic method of collection of information is the results of external communication and interviewing, questionnaire of all above-stated parties concerned.

The mechanisms of solution of conflicts of students and the personnel has been set and documented. For example, these mechanisms are described in next internal document "Statute about the order of consideration of complaints of students by the management of university", "Statute about the order of consideration of complaints of the workers of S.Seifullin Kazakh agrotechnical university.

The students have different complaints and claims: both on the methodological provision, on quality of the teachers' classes and during the examination commission, etc. In accordance with the Provision "About the organization of educational process on the credit departmental teaching" in S.Seifullin KATU the student has a right to appeal with the complaint for permission of one or another nascent problems.

The purposeful work on non-admission of corruption offences and negative phenomena in institution of higher learning is constantly conducted. Control on the process of academic and educating process of university comes true in accordance with "The rules of organization of activity of higher educational establishments", control on the observance

of "Rules of organization of test-examination sessions", "Rules of organization and realization of final state attestation of student".

In the cases of the repeated reiteration of remarks, complaints in an address of certain teachers the commission that carefully rechecks the facts is set up, the commission take the definite measures on the work of the teacher.

There are boxes for suggestions and remarks, the telephones of trust, e-mail of the rector, The department on educator work unseals the boxes of trust, registers the acting letters and directs them to the administration of the university. The authorized departments conduct the analysis of the acting information, exposes facts, accept the corresponding decisions and stop violations

Other mechanisms of communication with students, master students, doctoral students, the teaching staff, the personnel and employers have been set up by means of educational process, advisor and curator classes, informative stands, the system "Platonus", web-site of university, educational portal of institution of higher learning, social network " of Facebook", MASS-MEDIA, newspaper "My university" and vacancy of graduating students etc.

Degree of satisfaction of employees, students, graduating students, and also employers by the level of the services rendered by the university and also the terms created for work and educating is determined by realization of questionnaire and sociological questioning conducted by a sociological laboratory. The rule "About the order of realization of sociological researches in S.Seifullin KATU" and the provision about the order of management by the procedure of feed-back in S.Seifullin Kazakh Agrotechnical university" have been worked out.

For research of environment the questionnaire of employers about the level of knowledge of graduating students of university has been carried out. At research of internal environment the questionnaire of employees and students about the terms of education and work, about material well-being of workplace, about quality of the given services, about quality of works of dining-rooms, cloak-room, etc. has been conducted. The questionnaire of on the theme of corruption in an university and religious extremism is held.

The questionnaire is conducted anonymously two times a year. The results of questionnaire are processed by the sociological laboratory of university, the dignities, defects and recommendations come to light, the results are given to the university administration that takes measure on the removal of defects and perfection of processes. The aim of questionnaire is a receipt of reliable objective data about the studied object, process. Basic tasks of sociological researches in S.Seifullin KATU: determination of

basic problems in functioning of educational-scientific-educator process; exposure of basic forms and methods of upgrading and teaching level. The results of sociological researches are kept in subdivision, conducting sociological research. On results a questionnaire the problems of weak equipped of some classrooms by placards and insufficient amount of measuring instruments are educed. For the decision of this problem new placards and measuring instruments are purchased for

Estimation of effectiveness and efficiency of activity of department in the process of realization of EP takes place on the basis of analysis of reports, information, materials got as a result of internal and external verifications.

Criteria are certain in institution of higher learning distinguishing concepts "effectiveness" and "efficiency". The question of effectiveness is a question about aims and their correct raising in EP. The question of efficiency is a question of rightness of process of achievements on EP.

In the question of evaluation of effectiveness and efficiency of activity of department in the process of realization of EP the academic Council of institution of higher learning, Council of the faculty, the teaching staff of department, employers takes part.

Estimation of key indexes of efficiency of educating is conducted as a questionnaire. Sense of estimation of efficiency of educating consists of that they got information was in future analyzed and used for perfection of EP. Such practice allows working on the increase of efficiency of educating and release from ineffective on-line tutorials and forms.

The estimation of key indexes of efficiency of educating is important to define the pre-arranged results and to show where improvements or changes are required. An estimation is needed to do education more cost-effective.

Table 2. Information about the contingent of students on forms and levels of training of EP

Academic years	Contingent of students			Extra-mural form of training
	Bachelor degree	Magistracy	Doctoral studies	
2015-2016	187	18	-	-
2016-2017	185	23	2	-
2017-2018	165	28	8	4

The analysis of contingent of students testifies that there is a positive tendency in the educational program of the postgraduate education. It is related first of all to the strategy of S.Seifullin Kazakh Agrotechnical University and the accent of university on development



of scientific-innovative structure on the background transformation in the research university of international level in area of AIC.

Table 2. Information about the progress, achievements and the deducted students

Academic year	Progress, %	Quality, % (students who received good and excellent grades during their examination session)	Amountofdeducted students, %
Winter session			
2015-2016			
2016-2017			
2017-2018			
Summer session			
2015-2016			
2016-2017			
2017-2018			

During all period of training the questionnaire among students on results of satisfaction with the educational process and educational programs, on transparency of realization of current, midterm controls and intermediate attestation is conducted,. The results of questionnaire are processed, analysed and allow to correct general organization of educational process.

With the purpose of collection and analysis of information about the students' satisfaction with the quality of the educational services including the educational programs the questionnaire is systematic conducted in the institution of higher learning. The questionnaire of students, master and doctoral students is conducted at the end of every academic year. The results of questionnaire come into question at the meetings of the Council of the faculty and meetings of the department. According to the results of the questionnaire the correcting actions are accepted. Analysis of results of questionnaire of EP showed the high level of satisfaction of the students' quality of realization of EP. The results of the questionnaire: 1. Material and technical base. "Quite arranges" - opinion of the students makes 83%, opinion of graduating students - 79%. 2. Technical equipment. "Quite arranges" - opinion of students makes 72%, opinion of graduating students - 76%. 3. Level of the methodological provision of classes "High" - opinion of the students makes 88%, opinion of graduating students - 89%. 4. Quality of the teaching staff "Very high" - opinion of the students makes 89%, opinion of graduating students - 90%. 5.

Organization of the self study work. "It is organized at the high level" – students: 77,5%, opinion of graduates – 86%. 6. Organization of the industrial work. "Excellent" – students: 72%, opinion of graduates – 79%. 7. Organization of research work. "At the high level" – students: 56,5%, opinion of graduates – 80,5%.

Information collected and analyzed by the institution of higher learning and department within the framework of EP takes into account the availability of educational resources and systems of support for student.

Information about the employment of graduating students of EP is given in Appendix 16

The provision about the privacy policy in S.Seifullin Kazakh agrotechnical university has been worked out. The university policy of privacy is prescribed in it. The information touching individually every participant of EP is confidential, it is accommodated in the database of Platonus, and only individual user has an access to it.

Students and the teaching staff write an application on the name of the rector, where they express the consent to processing of the personal data. For example, the student on voluntarily basis writes an application of next content addressed to the rector - "I give a consent to the processing of my personal data necessary for execution of educational agreement on all period of training"

In the institution of higher learning the informative support of scientific researches is carried out by the Department of science and innovative activity basic activity of that is to realize the scientific and technical programs oriented to the priority directions of the Government program on the force industrial-innovative development of the republic of Kazakhstan, active introduction of scientific results through the educational process, distribution of knowledge and commercialization of technologies, development of competitive scientific potential participating in the solution of priority tasks on the wide spectrum of scientific directions, and also the development of effective mechanism of integration of university with research organizations of the Ministry of agriculture and ministry of Education of the Republic of Kazakhstan and other departments in the field of implementation of EP.

Students, undergraduates and doctoral candidates of the department have free access to the Kazakhstan national electronic library, Republican interuniversity electronic library [www.rmeb.kz](http://www.rmeb.kz), scientific electronic library [eLIBRARY.ru](http://eLIBRARY.ru), THOMSON REUTERS WEB OF KNOWLEDGE, ELSEVIER POLPRED.COM, Scopus. The scientific and electronic library of the university which provides the access for students and teachers to foreign full

text databases works in the same way using the license agreement with the operator of the elibrary.ru resources.

SWOT- analysis of the standard "Management of the information and accounting"

S (strength) – (potentially positive internal factors)	W (weakness) – (potentially negative internal factors)
Within the framework of EP the system of the regular accounting reflecting all levels of structure including the estimation of effectiveness and efficiency of activity of departments comes true	At the estimation of key indexes of efficiency of educating a questionnaire is used only
The order of providing of protection of information and responsible persons for the authenticity and timeliness of analysis of information and data of EP has been determined	
In the process of collection and analysis of information and also making decision on their basis the students, master and doctoral students, the teaching staff and employers are involved	
O (opportunity) – favorable opportunities (potentially positive external factors)	T (threat) – threats (potentially negative external factors)
Development and functioning of the model republican system "Management of the information and accounting in the institutions of higher learning	Use of untitled, inadequate external information for the improvement of the internal system of providing of quality and its continuous improvement

According to this standard 17 criteria are disclosed, 13 of which have a strong position, the others- satisfactory. Studying of the question connected with the management of information and the reporting of EP demonstrates that enough attention is given to the reduction of EP according to the requirements of the international standards. But it is necessary to strengthen the work connected with the assessment, effectiveness and efficiency of activity in EP. At the same time. an important factor is the involvement of students and the teaching staff in the processes of collecting and the analysis of information and also decision-making on their basis.

Plan for elimination of weaknesses

№	Weakness[□wi:kn1s]	Measures
1	Only questioning is used at assessment of key performance indicators of training	All KPI methods will be used at assessment of key performance indicators of training
2	Use of the raw, inadequate external information for improvement of internal system of ensuring quality and its continuous improvement	Professional development of the experts on the system basis occupied with the processing of external information for improvement of internal system of ensuring quality for its continuous improvement

#### **4 Development and approval of the educational program**

EP 5B073200 – "Standardization and certification" assumes the choice of an educational trajectory of training: "Standardization and certification of agricultural production" and "Safety and quality management of agricultural production" which allows to master most fully and deeply chosen specialization.

EP determines an order of training of students according to the individual educational trajectory, an order of registration of the studies studying for attendance, carrying out the current, midterm control, an intermediate and final assessment, assessment of knowledge of students, the organizations of passing the practice by students.

The Working Curricula (WC), the modular educational programs (MEP) are developed for all term of training at a basis of standard curricula of specialty (TSC) and approved by the rector on the basis of the decision of the Academic council taking into account the interests of employers (Appendix 17).

EP contains the purposes, expected results, the list of competences and qualifications. Qualifications correspond to the certain level of the national frame of qualifications, branch crayfish of qualification and to professional standards in the higher and postgraduate education.

Educational process is organized according to the Rules of the organization of educational process for credit technology of training (No. 152, approved as MES RK on April 20, 2011, changed by the order No. 198, 2014).

EP have includes the components forming special competences consisting in the following: abilities to carrying out the certified tests, knowledge of conditions of mutual recognition of tests to process databases, to carry out expert estimates of quality with their use. It is carried out by means of studying of such disciplines as Certification, Databases and expert systems, Audit of quality, Test, control and safety of production, Quality system, Statistical methods of management of quality of production and processes, etc.

EP are annually updated taking into account the interests of labor market. For the purpose of studying of interests of employers when developing EP within the academic year meetings, round tables with employers, with participation of interested parties and persons are regularly held.

When developing EP the technology of modular training and modular educational programs is used. When developing MEP the following principles were used: integrity (accounting of cross-disciplinary communications), interaction of the theory with practice

having the developing character of education, association and rational use, adaptability, etc. The maintenance of EP on an obligatory component of the curriculum conforms to requirements also SESE RK of 23.08.2012 No. 1080 .

WP 5B073200 - "Standardization and certification" since 2010 establishes EK in volume: on the GS block - 33 credits, on the MS block - 20 credits; on the ES block - 5 credits.

The full list of disciplines in the content of EP 5B073200 "Standardization, and certification" is determined by three cycles: general education disciplines, basic disciplines, main subjects. The list of disciplines in the content of EP 6M073200 - "Standardization and certification" and EP 6D073200 - "Standardization and certification" is determined by two cycles: basic disciplines and main subjects. Each of cycles of disciplines consists of obligatory and elective components. The MEP projects are developed by the department, then the MEP projects are discussed with employers, UMS is considered and are approved by the rector of higher education institution.

It is possible to introduce with the specialties approved by MES RK in the reference <http://kazatu.kz/ru/obrazovanie/fakulteti/tehnicheskii-fakultet/kafedra-standartizacii-metrologii-i-sertifikacii/>

For realization of EP in the specialty "Standardization and metrology" the educational and methodical complexes of specialty (EMCS) and disciplines (UMKD) including a set of documents and educational and methodical materials have been developed.

During the coordination and approval of the methodological complexes the inspection of content of materials on compliance to SESO, to standard programs, curricula of specialty, working programs at the level of department, faculty and also Department for the academic questions of the university is carried out.

The working programs of EP contain a full list of the subject matters grouped in cycles of general education (GS), basic (BS) and the main subjects (MS) both on obligatory and on elective components with the indication of labor input of each subject matter in the credits and class periods.

There are the following cycles of disciplines: General subjects – 25% of the total amount of hours or 33 credits; The basic subjects - 50% of total amount or 64 credits, 20 credits of them are taken away on disciplines of an obligatory component and 44 credits – on disciplines of a component for choice; MS-25 % of the total amount of disciplines of the standard curriculum or 32 credits, 5 credits of them is taken away on disciplines of an obligatory component and 27 credits – on disciplines of a component for choice.

There is the graduate's model on EP "Standardization and Certification" developed on the basis of SESO, NRK and the EWC project "Standardization and Certification". The graduate's model on EP "Standardization and Certification" is given in table 3.

Table 3 - The graduate's model on EP "Standardization and Certification"

	5B073200 - Standardization and certification	6m073200 Standardization and certification (in branches)	6D073200 - Standardization and certification (in branches)
	<ul style="list-style-type: none"> <li>-to design the new projects of normative documents;</li> <li>- to ground the choice of charts of confirmation of accordance of products and services;</li> <li>- to give metrology description of devices and оборудований;</li> <li>- to carry out the control of accordance of the developed projects and technical documentation to the standards, technical requirements and other normative documents;</li> <li>-- to work out project and working documentations of technical requirements and standards;</li> <li>- to examine the quality of food products;</li> <li>- to give the estimation of raw material and ready products</li> </ul>	<ul style="list-style-type: none"> <li>- to plan, organize scientific researches;</li> <li>- to use knowledge of fundamental sciences for the decision of certain research, information retrieval, methodical tasks;</li> <li>- to use knowledge of institution of higher learning psychology and pedagogics in practical activity;</li> <li>- to work on modern facilities of the computing engineering, office equipment, communications and connection;</li> <li>- to formulate and solve tasks during professional, research and</li> </ul>	<ul style="list-style-type: none"> <li>- perfection of foreign language for realization of scientific communication and international cooperation;</li> <li>- to apply statistical methods in control of quality, analysis of defects and research of technological processes;</li> <li>- to process databases, carry out the expert estimations of quality with their use, to use the bases of the results given for statistical treatment and working out the totals</li> <li>- to work out</li> </ul>

	<p>-- to fill the catalogue sheets of products;</p> <p>- to use the electronic base of normative documents;</p> <p>- to conduct the organoleptic estimation of products and design results;</p> <p>- to apply the instruments of control of quality in productive terms;</p> <p>- to make the evidential base of technical regulations of customs union</p>	<p>pedagogical activity requiring deep professional knowledge;</p> <p>to find the coefficients of standard and rejection values of indexes, absolute values of indexes of properties;</p> <p>- to carry out the complex estimation of quality;</p> <p>- to plan quality of products;</p> <p>- to estimate effectiveness of the technological systems of production</p> <p>-- bases of fundamental sciences corresponding to speciality of master's degree;</p> <p>- about the mathematical and physical design of the systems in area of standardization and systems of quality;</p> <p>- about research, inventor, innovative activity in area of</p>	<p>organizational and methodical bases of standardization, certifications and managements by quality of products in market conditions.</p> <p>- to apply methodical principles and rules for determination of size of expenses on providing of quality</p>
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		<p>standardization and estimation of accordance;</p> <ul style="list-style-type: none"> <li>- about possibilities of the advanced scientific methods and technical equipments and to use them at level necessary for the operative decision of productive and technological problems;</li> <li>- technology of development and introduction of the system of management of quality on an enterprise.</li> <li>--- drafting of evidential base of normative documents;</li> <li>- development of the systems of management of quality and safety in agricultural and industrial and productive enterprises.</li> </ul>	
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<p>To know and understand</p>		<p>-fundamental sciences corresponding to speciality of doctor PhD;</p> <p>- about the basic stages of development and changing of paradigms in the evolution of science;</p> <p>- about scientific schools in area of, metrology and management standardization by quality, their theoretical and practical developments;</p> <p>- about scientific conceptions of world and Kazakhstan science in the corresponding area;</p> <p>- about the mechanism of introduction of scientific developments in practical activity;</p> <p>- about the norms of</p>
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			<p>cooperation in a scientific association;</p> <ul style="list-style-type: none"> <li>- about pedagogical and scientific ethics of scientist-researcher modern tendencies, directions and conformities to law of development of home science in the conditions of globalization and internationalization;</li> <li>- methodology of scientific cognition</li> </ul>
<p>Be competent in the consideration of questions</p>			<ul style="list-style-type: none"> <li>- modern methods of analysis of quality and safety of food raw material and products.</li> <li>- in the decision of tasks and problems of harmonious (complex) development producing goods and services on the base of modern methods of management and control of activity of enterprises and organizations</li> </ul>

			<p>-- in development of ways of increase of effectiveness on the basis of the through integrated management by quality and requirements of international standards and positions of universal management of quality of TQM.</p>
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-National center of accreditation; Kazakhstan institute of metrology; Kazakhstan institute of standardization and certification; Business concern "Tsesna-Astyk"; Kazakh SRI of processing of agricultural produce; enterprises in the area of production and processing of agricultural products.

-EP is annually looked over and improved, pass procedure of external and internal examination and provide the quality of educational services.

The criteria produced to external expert organizations are the following: participant of the state system of the technical adjusting of PK; presence of specialist graduating from the institution of higher learning on specialty "Standardization and certification" in the staff.

For realization of external examination the following employers were attracted: Committee of the technical adjusting and metrology; National

The protocols of meeting are signed on the results of external examination. Protocols of meeting are added (Appendix 10).

The adviser explains the students of bachelor degree, magistracy and doctoral studies the qualification they will get after the completion of EP and what level of NSQ it corresponds to.

EP of specialties worked out in accordance with the National scope of qualification on industry according to the Dublin descriptors for the levels of bachelor degree, magistracy and doctoral studies. While developing educational programs the theoretical and practical sequence and succession of academic educational disciplines are taken into account. For

example, at the level of bachelor degree the mastering of key competences necessary for any professional activity (ability to work with information, enter into communications, possession of social and legal bases of the person's behavior etc) is implemented.

The graduates after the completion of their studies in 5B073200- "Standardization and Certification" can continue their studies at the magistracy 6M073200- "Standardization and Certification" and undergraduates can continue their studies in doctoral studies on the specialty 6D073200- "Standardization and Certification".

The organization of practice at all stages is aimed at ensuring the continuity and consistency of mastering the students' professional skills in accordance with the requirements for the level of training of the future specialist:

- industrial training including pre-diploma practice of students is carried out at enterprises, institutions and organizations, which are bases of practice in accordance with existing agreements;

- general cultural - awareness of the social significance of their future profession, conscientious fulfillment of professional duties, possession of a culture of thinking, ability to generalize, analyze, perceive information, set goals and choose ways to achieve it, logically correctly, reasonably and clearly build oral and written speech, have a culture of behavior, be ready to cooperate with colleagues, work in a team, be able to critically evaluate one's strengths and weaknesses, chart ways and choose development means and elimination of deficiencies, strives for self-development, improvement of their qualifications and skills

- professional - independently acquire new knowledge and skills with the help of information technologies and use them in practical activities including new areas of knowledge not directly related to the field of activity; understanding of the significance of their future specialty, responsible attitude to their work activities; independently make decisions within their professional competence, work on interdisciplinary projects; possess the basic methods, methods and means of conducting certification tests, process the obtained results, analyze and reflect on them taking into account the existing international experience, present the results of the work, substantiate the proposed solutions at a high scientific, technical and professional level

Following the results of all types of practice, students submit a written report to the department. The results of the practices are reviewed and discussed at the meeting of the department (Appendix 18).

Currently, Kazakhstan is compiling and coordinating the list of professions (areas of professional activity, types of labor activity) for the development of professional standards

in the framework of the project “Development of labor skills and stimulation of workplaces” together with NPP Atameken. In addition, the RSE "KazInSt" is developing a project of the JRC "Standardization and Certification." After the adoption of this document work on the development of professional standards in this area will begin, a certification center for specialists will be created at the Atameken Scientific-Production Enterprise of the Republic of Kazakhstan, and a provision will be developed on “Certification of specialists (Assessment and qualification of professions)”

The department at expert level takes part in the forming of the system of professional certification of specialists of industry.

At forming of maintenance of EP the necessity is taken into account both from the side of students and employers and state. For example, on the requests of employers some subjects have been offered for introduction to the working programs.

Students get possibility to participate actively in the forming of the educational trajectory and influence on quality of educational process. Large freedom of choice by the students of the disciplines enumerated in a curriculum, personal participation of every student in the forming of the individual curriculum.

The questionnaire of employers, meetings and conversations are regularly conducted with them, they speak out remarks and wishes on the improvement of further work of department within the framework of development of EP. Questionnaire questions are under consideration at the meeting of the department, as a result new elective courses are developed taking into account wishes and suggestions of parties concerned. For example, in 2018 the discipline "Standardization and certification of organic production" (Appendix 19) was included into the specialty 6M073200 - Standardization and certification.

The retaking of credits on the type of ECTS comes true according to the Rules of organization of educational process on credit technology of educating by the ratified order of Minister for education and science of Republic of Kazakhstan from April, 20, 2011, №152. The re-calculation of credits of ECTS in the credits of Republic of Kazakhstan comes true by dividing of credits of ECTS in the translation coefficient depending on filled of a 1 credit of ECTS on every discipline and level of the educational programs : for bachelor degree - in limits from 1,5 to 1,8. A translation coefficient for the credits of professional practice and final attestation is also certain in the Rules of organization of educational process on credit technology of educating. During the realization of EP terms are provided for quality of introduction and functioning of the credit departmental teaching. The use of credits of ECTS endows in perfection of quality of the educational

program. ECTS helps to develop, describe and carry out the educational programs and award to qualification.

The following indicators are used to assess the quality of ECTS loan implementation: available clear information about students on their level, number of loans, implementation and evaluation; training in the time allotted; annual monitoring of modules and results; the use of flexible learning paths and the selection of educational components of the appropriate level of their qualifications.

The content of academic disciplines and their results correspond to the levels of undergraduate, graduate and doctoral studies.

Logical and structural analysis of the content of the OP at the 3 levels of training is given in Appendix 17.

The structure of the study program on specialty 5B073200 - "Standardization and Certification" provides for the following activities, the corresponding learning outcomes:

- development, revision and amendment of standards, regulatory and technical documentation;

- metrological examination of design, technological and operational documentation, development of measurement methods for individual indicators of geometric accuracy, development of measurement systems for specific industries, development of methods for calibration (calibration) of measuring instruments;

- analysis of the state of production and assessment of the stability of the quality of products, services and systems for the purpose of further certification, assessment of the implementation of corrective and preventive measures;

- maintenance, organization of preventive examinations and maintenance of measuring instruments, tests and controls;

- State supervision and inspection control of compliance with the requirements of standards and other regulatory documents of enterprises engaged in the management and assessment of the safety of agricultural and food products;

- conducting experiments, measurements, observations, the introduction of research results and scientific research.

The structure of the study program for the specialty 6M073200 - "Standardization and Certification" provides for the following activities, the corresponding learning outcomes:

- development of work plans and programs for research and technical development, preparation of separate tasks for performers;

- collection, processing, analysis and systematization of scientific and technical

information on the topic of research, the choice of methods and means of solving the problem;

- preparation of scientific and technical reports, reviews, publications on the results of completed studies;

  - fixation and protection of intellectual property

- implementation of pedagogical activity in educational institutions of technical and vocational education;

- development, publication, introduction of educational and methodological developments in the specialty profile;

  - educational work among students;

  - preparation of tasks for the development of design solutions;

- carrying out patent research, drawing up descriptions of the principles of operation and device design of objects with the rationale for the adopted technical decisions

- carrying out calculations for projects, feasibility and environmental-economic justification of planned decisions;

  - assessment of the innovative potential of the project, innovative risks;

- development of methodological and regulatory documents, technical documentation.

The structure of the study program in the specialty 6D073200 - "Standardization and Certification" includes the following activities, the corresponding learning outcomes:

- independent research, organizational, managerial, design, technological and educational activities;

  - select the necessary research methods, modify existing and develop new methods, based on the objectives of a specific study;

  - process the results obtained, analyze and reflect on them taking into account the available data.

Currently, the department "Standardization, Metrology and Certification" is working on the issue of developing joint educational programs with universities of the Eurasian Economic Union. This is prompted by the fact that at present not a single issue on the removal of technical barriers to trade and in the field of technical regulation can be resolved without the participation of authorized bodies of other countries participating in the Eurasian Economic Union.

SWOT analysis of the standard "Development and approval of the educational program"



S (strength) - strengths (potentially positive internal factors)	W (weakness) - weaknesses (potentially negative internal factors)
The qualifications for the EP correspond to a certain level of the NQF, the TFK and professional standards in higher and postgraduate education	
Participation of faculty and employers in the development and management of educational programs	Lack of joint educational programs with foreign universities
The continuity of the content of the educational program at various levels (bachelor degree - master's and doctoral studies)	
The presence in the content of academic disciplines professional context	
O (opportunity) - favorable opportunities (potentially positive external factors)	T (threat) - threats (potentially negative external factors)
Development of joint educational programs with leading foreign and Kazakh universities	
Opening of branches of departments and experimental sites of the university	Insufficient funding

According to this standard, 12 criteria are disclosed, according to the standard of specialized accreditation. 6 criteria out of 12 have a strong, 6 criteria satisfactory position. Within the framework of this standard, it is necessary to document models of graduates from EP, describing learning outcomes and personal qualities, to develop joint EPs with foreign educational organizations. Plan on eliminate weaknesses

№	Weak sides	Activity
1	Lack of joint educational programs with foreign universities	Develop joint educational programs with universities of the EAEU member countries
2	Insufficient funding for the functioning of the branches of departments and experimental sites of the university	In the state procurement to lay the cost of financing the branches of departments and experimental sites

## **5 CONSTANT MONITORING AND PERIODIC EVALUATION OF EDUCATIONAL PROGRAMS**

The quality assessment of the implementation of EP is carried out within the framework of the overall system of monitoring the quality of education, which consists in evaluating the management of EP (level of teaching staff, organization of the educational process, regular assessment of the level of achievement of program objectives, relevance of graduates); - implementation of EP (curriculum, model programs of disciplines, methodological and information support, infrastructure, educational technology, research); - the results of the OP (intermediate certification, final certification). The assessment mechanisms at the department are monitoring visits to classes (sociological surveys of participants in the educational process, feedback from external heads of practices, opinions of chairmen of state certification commissions, reviewers of dissertations, as well as analysis of performance indicators, residual knowledge, and report on the implementation of the recommendations of the EECA.

The department systematically monitors the training of students in order to ensure the quality of education, within the framework of internal quality assurance. Monitoring includes tracking: attendance at training sessions; performance of training tasks and independent work; delivery by training tasks on the current, mid-term and final control; the implementation of the individual learning plan of the student. Monitoring results are communicated to management and stakeholders.

Monitoring (control) of planned activities in the framework of the implementation and evaluation of EP is carried out at meetings of the department, faculty councils, department of academic issues, where: the implementation of plans is checked; compliance of the results of the processes with the planned indicators (performance); there is a discussion of performance; a corresponding assessment is given; if necessary, corrective actions are developed to eliminate the shortcomings and omissions in the work.

The regulation on the procedure for developing a plan for the development of an educational program and monitoring its implementation is set forth in the regulation on the procedure for developing a plan for the development of an educational program and monitoring its implementation.

The source of information for monitoring is the processed results of the survey of students, undergraduates, doctoral students and employers.

The results of the evaluation of the EP are discussed at the Academic Council of the university, department meetings, faculty councils, who make decisions on measures to ensure the quality of education. The forms of the final control (oral, written, computer testing) are approved by the faculty council. All procedures for the approval of documents of the EP are carried out in accordance with the normative documents of the MES RK.

Every year in May-June, the department holds a discussion and revision of the unit of higher education for the next academic year. Faculty members and employers take part in the meeting. The purpose of the revision is to update the curriculum, taking into account the wishes of employers, changes in the SES, changes in the market, and changes in this area. The results are reflected in the minutes of the meeting of the department. For example, the work plan for the discipline of accreditation was reviewed by the accreditation department of the National Forensic Science Association and it was proposed to include in the curriculum topics of lectures required for specialists testing and calibration laboratories.

Information on updating elective disciplines in the Republican Unitary Enterprise for the reporting period is shown in Table 4.

Table 4 - Update elective disciplines in RUP for the reporting period

Code and name of EP	Number of elective disciplines		The number of changed disciplines in the school year		
	Total	Selected	2015-2016	2016-2017	2017-2018
5B073200 - Standardization and Certification	40	34	4	4	7
6M073200 - Standardization and Certification	9	9	1	2	4
6D073200 - Standardization and Certification	4	4	-	-	-

With the adoption of a new program document in the field of the AIC - the State Program for the Development of the Agro-Industrial Complex of the Republic of Kazakhstan for 2017–2021, there were corresponding changes in the needs of society and the professional environment in personnel and specific necessary competencies. For

example, with the adoption of this state. of the program, the need arose for specialists with knowledge of the basics of the production and certification of organic products, taking into account what in the QED for OP 6M073200 - Standardization and Certification the discipline "Standardization and Certification of Organic Production" is included.

Information about the regulatory burden, assessments of performance and requirements for graduate students are given in the Academic policy of the university, approved by the Academic Council of S. Seifullin KATU JSC, Protocol № 21 dated June 30, 2017 (Appendix 20).

At the university, the effectiveness of the assessment procedure for students is determined according to the criteria specified in the standard of the organization of the QMS 5.3.01-2016 Monitoring and assessment of students' knowledge.

During the reporting period, at the university level, together with the department, a sociological survey of students, teachers and employers is conducted. According to the survey results, reports and recommendations are prepared on how to increase students' satisfaction with the quality of educational services. In addition, OPs are updated annually to reflect the interests of the labor market.

As the survey in the specialty shows, more than 90% of students and employers are satisfied with the quality of training at S.Seifullin KATU.

The university has established and operates student academic support services: a registrar's office (PR), an advisory service.

The PR is a member of the Department of Academic Affairs (hereinafter referred to as DAW) and registers the entire history of students' academic achievements, ensures the organization of all types of knowledge control, the calculation of the academic rating of students.

The PR performs the following functions:

- keeps registration and creates an electronic database of all educational achievements of students;
- organizes and controls the conduct of the boundary and final control of students' knowledge;
- controls the final state certification;
- provides the university administration with information, analysis and suggestions on the results of all types of students' knowledge control;
- organizes and conducts the summer semester, registers students for the summer semester;

- counts the average student achievement score (GPA) at the end of the academic period, when transferred from course to course;

- organizes and controls the control of students' knowledge in the AIS "Platonus".

To realize the benefits of the credit system of education and ensure the diversification of curricula, special academic services are created at the university to assist students in choosing and implementing their educational trajectories, and assisting in the development of academic disciplines. These services include the office of academic consultants (mentors) of students. The service of advisors (academic mentors) is created for the purpose of academic support for students in the selection of their educational programs. (Methodical instruction Adviser - academic consultant of students).

The number of advisors is determined depending on the contingent of students, in the ratio of 1 adviser to 25-50 students. Experienced teachers (senior teachers, associate professors, professors) of graduating departments who know the given specialty and features of the educational process according to the credit system are appointed to the position of adviser.

The Advisor assists students in timely vocational guidance, in the selection of academic disciplines and teachers:

- identifies the needs and inclinations of students in choosing the trajectory of training in the relevant specialty;

- introduces students to the standard curriculum of the specialty, the catalog of elective disciplines;

- acquaints students with the method of forming individual curriculum of trainers (requirements for compilation, list of disciplines of compulsory component and component of choice, prerequisites and post requisites of courses, number of credits, methods of their development) (SO QMS 02.2008)

- conducts group and individual consultations with students for the rational preparation of individual curricula for students taking into account their individual abilities, growth prospects, the needs of society and production;

- provides advice on adjusting the individual curricula of students;

- organizes and controls the procedure for registration and re-registration of students on disciplines, both on paper and AIS "Platonus";

- monitors and conducts verification of mastering students in academic disciplines in the amount of specified credits during the entire period of study at the university.

Proof of the participation of students, employers and other stakeholders (government agencies) and the revision of the EP is the minutes of the meetings of the department and the association of graduates of the EP.

The list of persons interested in the improvement and development of EP includes: the Committee for Technical Regulation and Metrology; National Accreditation Center; Kazakhstan Institute of Metrology; Kazakhstan Institute of Standardization and Certification; Concern "Tsesna-Astyk"; National Center for Ecology, Kazakh Research Institute for Processing Agricultural Products; conformity assessment and testing laboratories; leading enterprises in the field of production and processing of agricultural products.

All changes made to the structure of the EP are published on the university website.

The faculty of the department regularly conducts assessment and revision of programs with the involvement of students, graduates and employers. The systematic collection, analysis and management of information allow the EP to be relevant in a rapidly changing world. This takes into account the sum of various indicators (the number of students, student satisfaction with the implementation of the program, employment of graduates).

Quantitative indicators of educational results show the number of graduates who received diplomas and received diplomas with honors; level of employment of graduates, incl. in the specialty, after the end of OP; employers' satisfaction with the quality of graduate training, etc. Every year, the university hosts an employer job fair, where graduates submit their resumes. About 80% of the total numbers of graduates are employed; there is positive feedback from employers.

The following collegial bodies take part in revising the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society: Academic Council of the University, Faculty Council and the Association of Graduates of the EP.

SWOT analysis of the standard “Continuous monitoring and periodic evaluation of educational programs”

S (strength) - strengths (potentially positive internal factors)	W (weakness) - weaknesses (potentially negative internal factors)
The department systematically monitors the training of students in order to ensure the quality of education, within the framework of internal quality assurance	

EPs are updated annually taking into account the interests of the labor market based on monitoring and periodic evaluation	
The educational environment and student support services are consistent with the objectives of the EP.	
About 80% of the total number of graduates are employed, there are positive feedback from employers	Feedback from external managers of the practice is mainly of a formal nature, which reduces the effectiveness of monitoring and periodic evaluation of the EP.
O (opportunity) - favorable opportunities (potentially positive external factors)	T (threat) - threats (potentially negative external factors)
Employers will have the opportunity to hire graduates with the necessary set of professional competencies.	Frequent change of forms, methods and principles of monitoring and evaluation of EP by the authorized body in the field of education

According to this standard 10 criteria are disclosed, according to the standard of specialized accreditation. The analysis of the continuous monitoring and periodic evaluation of the EP demonstrates the systematic work carried out by the EP leadership in this area in accordance with the requirements of international standards. But at the same time, 6 criteria out of 10 have a satisfactory position. In order to enhance these criteria, software management should systematically conduct continuous monitoring and periodic evaluation of the EP.

#### Plan on eliminate weaknesses

№	Weak sides	Activity
1	Feedback from external heads of practice is mainly of a formal nature, which reduces the effectiveness of monitoring and periodic assessment of professional skills in EP.	Conduct explanatory work among real and potential leaders of the practice base on the importance of a real assessment of students and undergraduates' professional skills

## **6 STUDENT-CENTERED LEARNING, TEACHING AND ASSESSMENT OF PERFORMANCE**

For the successful implementation of the Vision, Mission and Strategy of S. Seifullin KATU, focused on high-quality vocational training of graduates, EPs in the specialty “Standardization and Certification” are aimed at meeting the current, changing and potential (expected) needs of students, undergraduates, doctoral students and employers and the state. To this end, student-centered learning and teaching has been introduced that stimulate regular and productive independent work, increasing the student's motivation to master the EP due to a higher differentiation of the assessment of academic work.

Students are provided with information materials:

- reference guide;
- academic calendar for the academic year;
- individual study plans;
- catalogs of elective disciplines;
- working training programs disciplines (Syllabus).

The guidebook is issued to a first-year student during the first week and allows the student to become more familiar with the organization of the educational process on the credit technology of education; with the rights and duties of students; with the code of honor of the student and teacher; with the order of recording on academic disciplines; with the structure of the university, etc.

The handbook is updated annually in accordance with changes in academic procedures. The students of the EP, familiar with the Code of Honor of the student, formed a sense of "zero tolerance" to any kind of dishonest attitude to learning, learning and receiving grades.

At the departments, the problem of changing the paradigm of education is solved: to leave the classical conservative system, where the teacher is in the center, to the open education system, and the student is in the center. This is the main principle of student-centered learning.

The management of EP in the organization of the educational process takes into account the special needs of adults, working, foreign students, as well as students with disabilities, creating appropriate conditions for them and providing them with a flexible learning path. The structure of the EP provides 2 educational paths for training students and undergraduates: "Standardization and certification of agricultural products" and



"Safety and quality management of agricultural products" (Appendix 17).

Teachers convince the student that learning is not so much the gathering and passive memorization of information that the teacher gives, as much as the independent formation of knowledge.

The introduction of student-centered learning elements required a change in the psychology of the teacher who became student-oriented, which implies respect for students as colleagues, allows the course to start from the level at which the students are located, not the teacher, and also to welcome and support individual differences.

The atmosphere in the classroom is an academic, free and supportive initiative, each addressing only the names of the other participants of the course by name, discussions and work in small groups are widely used in the educational process. The work of students in groups is encouraged to receive recommendations, assess and support their colleagues.

Students have the opportunity to actively participate in shaping their educational trajectory and influence the quality of the educational process. Greater freedom for students to choose the disciplines listed in the curriculum, personal participation of each student in the formation of their individual curriculum.

A student on the basis of TUP specialties and QED forms his individual curriculum (IEP) for the current year. Based on the data of individual plans, the annual working curriculum (RUE) of the specialty is formed.

It should be noted that the assessment of students' activity is continuous and aimed at encouraging, rather than punishing; it is important not only to put the assessment, but to discuss all the advantages and disadvantages of the work done with the student, to point out and analyze the mistakes. Teacher comments focus on successes and suggestions for improvement, rather than on errors and corrections. The role of the teacher is to lead students to success, and not only to show them their shortcomings and mistakes, students should learn to be proud of the work done and the knowledge gained. The teacher helps students to understand the strategies and methods of teaching and assists in finding and eliminating individual problems in teaching, great attention is paid to the latest technologies, methods and knowledge gained in the field of study.

The head of the department is personally responsible for the use of various forms and methods of teaching and learning in EP.

Credit technology training implies the right for students to choose teachers. This entails a healthy competitiveness, so teachers revise their views on the teaching process, more and more from a passive knowledge transfer to an active one, using innovative technologies and interactive teaching methods. In the course of training sessions and the

implementation of scientific work, focused on employers' requests, modern teaching methods are used, such as case studies, training, coaching, group work, discussions, design methods, information and communication technologies, art technologies, etc. Some of the above methods learning synchronized with distance learning in the educational process.

Student-centered teaching methods make the course much more intensive, as they allow to give more material and affect a wider range of problems, cultivate students' independent work skills and contribute to the development of critical and non-standard thinking.

The subject of teaching methods is the process of teaching a particular academic discipline. The main task of the methodology is the study of the laws of this training and the establishment on their basis of the regulatory requirements for the activities of teachers. The technique of teaching technical sciences is designed to ensure a high theoretical level of teaching, rigorous scientific character, brightness and clarity of presentation of the material. As a combination of certain techniques, teaching methods are inextricably linked with the content of the studied science and its methodology. In this regard, the leading teachers of the department developed teaching methods of academic disciplines EP.

Modern teaching methods specified in clause 12.2.2 and teaching methods provide a feedback system between the teaching staff and the student.

The level of knowledge of students is assessed on a professional basis, taking into account modern developments in the field of organizing the monitoring of educational achievements. Methods for conducting monitoring procedures, measuring materials, scales of knowledge assessment and internal standards of conformity have been developed. The university provides for current, mid-term control, intermediate and final certification of students.

The university practices various forms of ongoing performance monitoring used in the classroom, the results of which are recorded in an electronic journal, which ensures objectivity and transparency of the knowledge control process. The software allows you to keep an automatic record of points, which is the final rating of students. Requirements for students within each type of control are listed in the syllabus and the guidebook. Intermediate certification is carried out in written and test forms.

The testing procedure is provided with a base of test tasks for each discipline, automated programs of a combination of options, processing of results, formation of the examination record. Questions exam tickets are given in the syllabus.

Test assignments and exam tickets for all disciplines of the session and final state exams are developed in accordance with the work programs of disciplines by lecturers

from the disciplines, reviewed at a meeting of the department and approved by the head of the department.

The system of knowledge assessment allows determining at different stages of learning the level of mastery of theoretical knowledge, practical skills and research skills.

The department provides support for the student's sense of autonomy with simultaneous and proper guidance and assistance from the teacher. The department supervises students throughout the entire period of study. By specialty, an adviser is appointed by the order of the university's rector, who helps students adapt to the educational process at the university, select an educational trajectory, and observe the entire process of students' educational and scientific achievements.

The university has an approved provision on the procedure for handling student complaints by university management. In addition, the university's website has a rector's blog where you can contact with questions of interest. Also on the site you can find the e-mail addresses of the dean, the manager and teachers and directly contact them. Decisions on complaints and proposals, depending on their scale, are taken directly by the person to whom the appeal was addressed, or are considered at a meeting of the department, the Council of the Faculty or the Academic Council.

To establish the residual knowledge of previously studied disciplines, the level of mastering the educational material necessary for studying the subsequent disciplines of this specialty RUPA, as well as additional activities to fill the gaps of knowledge, the university has developed a standard for organizing Monitoring and evaluation of students' knowledge.

Assessment of students' knowledge is made on a four-point scale. When conducting the final exam, a positive score is entered in the exam sheet for the academic discipline of the AIS "Platonus". Grade F "unsatisfactory" is affixed only in the examination sheet. The total assessment of the student in the discipline is formed by summing up the points for the boundary and final control of the knowledge gained during the semester. In this case, the mandatory requirement of completion of the intermediate certification of the student in the discipline is a positive assessment on the final exam. The maximum assessment of the current academic performance in the semester is 60% of the final assessment of knowledge in the discipline, and the maximum assessment of the exam is 40% of the final assessment of knowledge of the discipline.

The results of the exam, according to the examination sheet, are entered by the teacher in the AIS "Platonus" on the day of the exam.

Applications for appeal on the basis of written, oral exam or computer testing are

accepted within one day following the announcement of the results, according to the personal statement of the student with the signature of the dean of the faculty addressed to the Director of DAI, where it is necessary to indicate the essence of the question (s) being appealed.

The appeal is carried out orally by the subject appeal committee of the department. The results of the appeal, drawn up by the protocol, are signed by the members of the appeal commission and transferred to the AOEP. The employee provides access to the examiner to enter the results of the appeal.

For the purpose of transparency of intermediate certification and final certification, the University operates a “Trust Box”, “The Blog of the Rector of S. Seifullin KATU”, where students can comment on the examinations, on the quality of the examination materials, etc. KDM together with the Office of the Registrar analyzes the views of students on the preparation and conduct of sessions.

To check the educational achievements of students, the following types and forms of monitoring students' knowledge are provided: routine monitoring; landmark control; final control.

Ongoing control is a systematic check of students' academic achievements carried out by a teacher in current classes in accordance with the discipline's syllabus.

Boundary control is the control carried out on the 8th and 15th weeks of theoretical training, with the inclusion of the results of current control and putting the results of the boundary controls in the statements in the AIS "Platonus".

The number of boundary controls is determined by the work curriculum and is indicated in the discipline syllabus. The form of the current and boundary controls, depending on the specifics of the discipline, is set by the teacher. Current and boundary controls can be conducted in the form of colloquiums, computer or matrix test surveys, written tests, assessing the participation of students in disputes, round tables, business games, solving situational problems, etc. Detailed information on the forms of the current and midterm control is included in the syllabus of the discipline and communicated to students in the first 2 weeks of the semester. The results of the midterm controls are entered by the teacher in the list of midterm controls in the AIS "Platonus" no later than the following Monday attestation week. Changes in the results of the midterm control in order to improve them are not allowed.

The final control is the verification of the educational achievements of students, conducted after the completion of the discipline during the examination session (interim certification). The duration of the exam sessions and the number of examinations is

determined in accordance with the approved working curriculum of the specialty and the academic calendar. Responsibility for organizing and conducting the examination rests with the deans of the faculties and the office of the registrar.

Students must pass all exams in strict accordance with the work and individual curriculum for the approved curriculum disciplines. Examinations in S.Seifullin KATU are held in written, oral and test form on a computer or on paper.

The criteria and methods of evaluation and the framework of the EP are given in the Academic Policy of the University, approved by the Academic Council of S.Seifullin KATU JSC, Protocol № 21 of June 30, 2017

Academic achievements (knowledge, skills, abilities and competencies) of students are scored according to a 100-point scale corresponding to the internationally accepted literary system (positive grades, as they decrease, from “A” to “D”, “unsatisfactory” - “ F ”) with the corresponding digital equivalent on a 4-point scale.

The organization of the monitoring system of educational achievements of students is carried out in accordance with SO QMS 5.3.01-2016 Monitoring and evaluation of students' knowledge and methodological recommendations to the section "Grading Policy" of the Republican Unitary School, approved by the scientific and methodological council of the university. The Registrar's Office keeps a history of students' educational achievements throughout the entire period of study, which is reflected in the transcript in the prescribed form. The transcript is issued at the request of the student for any period of his training.

The EP uses modern methods for evaluating learning outcomes, which include: case-meters, projects, portfolios, catanotes, contextual tasks, etc.

Advanced training of assessors is carried out on internal training courses. The organizer of these courses is the Department of Academic Affairs of the university.

SWOT analysis of the standard "Student-centered learning, teaching and assessment"

S (strength) - strengths (potentially positive internal factors)	W (weakness) - weaknesses (potentially negative internal factors)
EPs are aimed at meeting current, changing and potential (expected) needs of students, undergraduates, doctoral students, employers and the state	
In the EP, a change in the paradigm of education is planned - a departure from the classical conservative system, where the	The teaching staff does not always succeed in convincing the student that learning is not so much the gathering

teacher is in the center, an open education system, and the student is in the center.	and passive memorization of the information that the teacher gives, but the independent formation of knowledge
The teaching staff of the educational program revises its outlook on the teaching process, more and more from a passive knowledge transfer to an active one using innovative technologies and interactive teaching methods	Weak and insufficient development of external academic mobility of students
The structure of the EP provides 2 educational learning paths: "Standardization and certification of agricultural products" and "Safety and quality management of agricultural products"	The conceptual similarity of the two learning paths limits the conscious choice between them.
O (opportunity) - favorable opportunities (potentially positive external factors)	T (threat) - threats (potentially negative external factors)
Activation of external academic mobility of students, undergraduates and doctoral students in EP	The settled psychology of employers (older generation) about the effectiveness of the Soviet system of education

According to this standard 10 criteria are disclosed, according to the standard of specialized accreditation. The analysis of student-centered education, teaching and evaluation demonstrates the systematic work carried out by the EP leadership towards changing the educational paradigm - moving away from the classical conservative system, where the teacher is in the center, to the open education system, where the student is in the center. But at the same time, within the framework of this standard, EP management must reinforce 7 criteria out of 10: conduct their own research in the field of teaching methods of educational subjects of the EP; provide special attention to various groups of students and their needs, providing them with flexible learning paths.

Plan on eliminate weaknesses

<b>№</b>	<b>Weak sides</b>	<b>Activity</b>
1	The teaching staff does not always succeed in convincing the student that	Strengthen the role and responsibility of advisers, curators and, in general, teaching

	learning is not so much the gathering and passive memorization of the information that the teacher gives, but the independent formation of knowledge	staff of the EP in the formation of a new education paradigm - moving away from the classical conservative system, where the teacher is at the center, to the open education system, the student at the center
2	Weak and insufficient development of external academic mobility of students	To focus on the development of external academic mobility of students
3	The conceptual similarity of the two learning paths limits the conscious choice between them.	Revise the name and content of educational trajectories of learning with a view to the development of the student and undergraduate exactly those qualities of personality that are in demand by modern society

## 7 LEARNERS

The procedure for the formation of a contingent of students is carried out in accordance with the Model Rules for Admission to Education in Educational Organizations Implementing Educational Programs of Higher Education, approved by the Decree of the Government of the Republic of Kazakhstan of January 19, 2012 № 111.

The formation of a contingent of students is carried out by placing the state educational order for training specialists with higher education, as well as paying tuition at the expense of own funds of citizens and other sources.

The procedure for the formation of a contingent of undergraduates and doctoral students is carried out in accordance with the Model Rules for Admission to Education in Educational Organizations Implementing Educational Programs for Postgraduate Education ”, approved by the Government of the Republic of Kazakhstan of January 19, 2012 № 109.

The formation of a contingent of undergraduates, doctoral students is carried out by placing the state educational order for the training of scientific and pedagogical personnel, as well as paying for tuition at the expense of citizens' own funds and other sources. Admission of persons to the magistracy, doctoral studies is carried out on a competitive basis based on the results of entrance exams. Acceptance of applications submitted to the magistracy, a doctoral program is held from 10 to 30 July.

Entrance examinations for master's and doctoral studies are held from 10 to 20 August, enrollment - until August 25.

A prerequisite for transferring a student from one course to another is that the students achieve a GPA of no lower than the established conversion point.

Transferable GPA for students who have completed 1 course is not less than 1.67 points; completed the 2nd course - 1.9; finished 3, 4 course - 2.0. Transferable GPA for undergraduates of OP is 2.2, 2.5 doctoral students.

Enrolled in the first year of students, the department provides a reference guide, which reflects: the internal regulations, the mode of operation of all services, the procedure for paying for tuition, criteria for evaluating learning outcomes, information about educational programs, a telephone directory and other useful information for a first-year student. For applicants for 1 course during the first month of training, a number of adaptation measures are carried out.



The department supervises students throughout the entire period of study. According to the EP, an adviser is appointed by the order of the university's rector, who helps the first-year students in adapting to the educational process at the university, choosing an educational trajectory and overseeing the entire process of students' academic achievements. First-year students receive information and advice about the features of the educational process at the university from the curators of academic groups who explain the basic policies for students, the requirements for examinations, the rules for the retake of disciplines, procedures for expressing complaints, etc.

The leadership of the EP pays great attention to providing conditions for students. This is evidenced by the availability of service services: a canteen, medical center, gymnasium, computer rooms, libraries and research centers.

The practice of recognizing higher education qualifications, periods of study and prior studies, including the recognition of non-formal and informal studies, which are based on ensuring actions in accordance with the Lisbon Recognition Convention.

In order to ensure comparable recognition of qualifications, the Center for Development of International Cooperation and Multilingual Education of the University is engaged in integrating S.Seifullin KATU University into the world educational and scientific systems and establishes cooperation with other universities and quality assurance agencies, the national centers of ENIC / NARIC to ensure consistent recognition .

At the university, when planning, organizing and implementing academic mobility of students, the provisions of the following internal documents are applied:

- Regulations on the organization of external academic mobility of students at the Kazakh Agrotechnical University. S.Seifullin;
- Regulations on the organization of internal academic mobility of students at the S.Seifullin Kazakh Agrotechnical University.

Direction to study at foreign partner universities within the framework of external academic mobility is carried out on the basis of: international agreements (international programs, memorandums and cooperation agreements, exchange and scholarship programs); contracts between KATU them. S.Seifullin and partner universities.

The number of credits for studying students in partner universities during the period of external academic mobility should be: - at least 15 ECTS credits and at least 18 credits in Asia, the USA for undergraduate studies; - at least 30 ECTS credits for graduate programs.

Today, agreements on mutually beneficial cooperation in the field of academic mobility of students and teaching staff are available with the following foreign universities

and universities in Kazakhstan: Novosibirsk State Agrarian University (Novosibirsk), Magnitogorsk State Technical University. G.I. Nosov (Magnitogorsk), M.H. Dulati Taraz State University (Taraz), Zhezkazgan University. O.A. Baikonurov (Zhezkazgan), Karaganda State Technical University (Karaganda), M. Auezov South Kazakhstan State University(Shymkent), K.I. Satpayev Kazakh National Technical University (Almaty), Sh. Esenova Caspian State University of Technology and Engineering(Aktau), Shakarim SSU, Toraigyrov ATU.

The subject of these agreements is cooperation between partner universities to ensure the academic mobility of students, undergraduates and doctoral students in the field of science and education.

In the framework of academic mobility S.Seifullin KATU also accepts to study on the mutual exchange of students and teachers.

To ensure the academic mobility of the EP specialty "Standardization and Certification" students are given the opportunity to study certain disciplines in other educational institutions of the Republic of Kazakhstan with which there is a bilateral agreement between universities.

Academic mobility of students is given in table 5.

Table 5 - Academic mobility of students

Academic year	Incoming	Outgoing
2015-2016	-	-
2016-2017	I semester 06-732-14-16 from Shakarim SSU 1. Askhatov MA 2. Rakhimzhanova N.T.	I semester 06-732-14-16 in SSU Shakarim 1. Kustaubaeva E. 2. Iskakova J.
	Semester II 06-723-14-15 Toraigyrov PSU 1. Soltan A.	
2017-2018	I semester 06-732-16-1 from M. Auezov YuKU 1. Amy N.A. 2. Sairanbai D.B. 3. Shami D.N.	Term I, 06-732-16-17 in Shakarim SSU 1. Askarbekov A.
	Semester II 06-732-16-16 1. Amy N.A. from M. Auezov YuKU 2. Isaeva M. from ATU (Almaty)	

	Semester II 06-732-15-13 from Shakarim SSU 1. Oralbaeva A. 2. Nysanbayeva P. from ATU (Almaty) 1. Sugirbaeva Sh. 2. Zhanybekkyzy A. 3. Erzhan A. 4. Dysenbay A.	
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As can be seen from table 5, the department serves as a platform for academic mobility for students from other universities.

Mechanisms for providing opportunities for external and internal mobility of students of EP and assistance in obtaining external grants for training are given in the following internal documents of the university:

- Regulations on the organization of external academic mobility of students at the S.Seifullin Kazakh Agrotechnical University;
- Regulations on the organization of internal academic mobility of students at the S.Seifullin Kazakh Agrotechnical University.

In the department "Standardization, Metrology and Certification" for the reporting period are 908 graduates. The department maintains contact with graduates of the EP. For example, graduates of 2015 Elzhasova Zhuldyzai and Amanbek Yeldos who work in the equipment calibration laboratory, also Nurlankyzy Aytolkyn (2015) and Abishev Talgat (2016) specialist of the information department of the Kazakhstan Institute of Standardization and Certification, with which there is a valid memorandum with the university and there are agreements cooperation with the department for the passage of industrial and research practices of doctoral students, undergraduates and bachelors. Amirzhanova Rysaldy (issue 2017) works in the public associations for the protection of consumer rights "Sapa" and attracts faculty staff for the examination of products.

For 2015-2016 academic years, credits for all types of practices in the department of SMS - industrial practice 3 courses from 3 weeks to 5 weeks were increased. Based on the change in time, adjustments were made in the MEP specialty, the number of weeks of practice was increased.

A branch of the Department of Standardization, Metrology and Certification was established on the basis of the Republican State Enterprise "Kazakhstan Institute of

Metrology". Specialists of the RSE "Kazakhstan Institute of Metrology" conduct practical and laboratory classes.

For carrying out laboratory and practical work in the disciplines "MEP", "VSTI" the department acquired the laboratory installation "metrologist", electronic posters by means of measurement.

We consider the main drawback of the practical training of graduates of the specialty is the lack of interest of organizations carrying out practical training associated with low pay for specialists who teach classes.

All final assessments of the student, including the results of re-examinations, are recorded in the transcript.

A transcript is issued at the request of the student upon a written application and at the request of deans or other departments.

The student's transcript is registered in the register, where the number and date of issue are affixed. The document is certified by the registrar's office, the dean of the faculty and the Chairman of the Board and sealed.

The Diploma Supplement (Transcript) is completed on the basis of a certificate on the implementation of the individual curriculum by the students in accordance with the estimates obtained by him for all disciplines in the amount prescribed by the state compulsory educational standard and work curriculum, submitted coursework (projects), practices and results certification

The Diploma Supplement (Transcript) records the latest grades for each academic discipline in a point-rating alphabetic system of knowledge grades indicating its volume in credits and academic hours.

A student who passed the exams and differentiated tests with grades A, A- "excellent", B-, B, B + "good" and having a GPA for the entire period of study not less than 3.5, and also passed all state exams and defended a thesis (project) with grades A, A- "excellent", is awarded a diploma with honors (excluding marks for military training).

Diploma Supplements (Transcript) and a diploma is issued to the student within five 21 working days after the completion of the final certification according to the academic calendar. For successful employment of graduates of the specialty "Standardization and Certification", the EP's management provides conditions for successful practical training by students both in methodological support and moral support, and as a result, after passing the internship, many of our students already found work at these enterprises. After completing the practice, 40% of graduate students are employed by the specialty "Standardization and Certification". At the present time, the monitoring of employment

has shown that the demand for specialists in this EP increases in demand on the labor market from year to year, this is primarily related to the development of modern methods of market relations between economic entities. And graduates of our university in this training trajectory compared with other universities have a huge competitive advantage.

In addition, the employment of our graduates is also provided during the annual job fair held directly by the S.Seifullin KATU, where the percentage of employment reaches 80%.

At the fair "Graduate - 2016" was attended by representatives of 135 organizations. Among the active participants of the fair are TNK Agrofirma LLP, Eurasia Group Kazakhstan LLP, Astana-Energy JSC, NC Kazakhstan Kazakhstan Temir Zholy JSC, RSE on RGF Fitosanitaria, JSC Transtelecom, CGP on RV Astana Vtservis ", JSC" Atameken-Agro ", RSE" Zhasyl aimak", State University" Multidisciplinary College of Astana ", LLP" Design Institute "Astanaproekt", RSE "Republican Research Institute for Protection of the Ministry of Labor and Social Protection of the Population of the Republic of Kazakhstan" State Revenue Department in Almaty district, Astana branch of RSE "NPCzem", etc.

The number of graduates in 2016 in 37 specialties of the university is 2,242 students. During the fair, 136 people signed trilateral agreements, the number of students who orally agreed with employers on employment is 321 (14.3%). Employers took a resume from 336 students (15%).

Representatives of 175 organizations took part in the "Graduate-2017" fair. Among the active participants of the fair were KPMG LLP, BI Group Construction LLP, KEGOK JSC, Astana Innovations JSC, Atameken Agro JSC, Agrofirma Rodina LLP, Republican Quarantine Laboratory, RSE Zhasyl Aimak ", Astana LRT LLP, Concern Tsesna - Astyk AO, JSC, TNK Agrofirma LLP, Eurasia Group Kazakhstan LLP, Astana-REC LLP, Astana-Teplotranzit JSC, Kazkommertsbank JSC, etc. The number of graduates in 2017 in 37 specialties of the university is 2220 students. During the fair, tripartite contracts were concluded by 178 people, the number of students, verbally 464 (20.6%) of employers with employers about employment, employers took a resume from 651 (29%) students.

The university has the following student collegiate bodies:

- Committee on Youth Affairs (hereinafter referred to as KDM); - Alliance of Students of Kazakhstan (hereinafter referred to as ASC); - youth wing of the party "Zhas Otan"; - student parliament; - Student Council; - student trade union committee; - the debate club "Amanat", as well as the Students are members of the Faculty Council and the Academic Council of the University.

The student youth organization (KDM) and student self-government bodies (student deans) have existed since 2004. The university has a student parliament, a committee on youth affairs, a student union, a youth wing of the Zhas Otan party, branches of the Alliance of Students of Kazakhstan, the debate club "Amanat", "Friendship Club" "Dostyk", literary circle, also on the basis of the university there is a faculty of social professions, where students can develop their talents (singing, dancing, playing musical instruments, acting, CCR etc.).

The purpose of the functioning of student collegiate bodies is the formation of personality, as a specialist, oriented in a highly cultured civilized space, armed with state, national, spiritual and moral foundations.

The tasks of student collegiate bodies are to foster patriotism; the introduction to the system of cultural values expressing the wealth of human and national culture, the formation of personal attitudes towards them; cultivating attitudes towards labor as a socially and personally significant need; bringing to perfection human, civil qualities of a person; personality formation capable of making decisions from high civil positions; promote the development of such qualities as activity, responsibility, both in one's own team and in society; creating conditions for the continuous development of the individual, his abilities and talent.

The department operates the circle "Quality and Safety". The leader of the circle is the only Doctor of Technical Sciences in Kazakhstan, who defended his doctoral thesis in the specialty "Standardization and Product Quality Management" Kurmangaliyeva D.B.

A public fund has been established in the S.Seifullin KATU: "The Development Fund of the S.Seifullin Kazakh Agrotechnical University", the founders of which are university graduates. The founders and members of the public foundation take an active part in solving the social problems of students, in strengthening the material and technical base. In a word, never stand aside.

In addition, an alumni association has been established at the department. At the department there is a protocol of the meeting of the association, where proposals are made for improving the EP with a focus on the production and management needs of the participants of the GSTR RK (Appendix 21).

The following definition is used to identify gifted students: A gifted (talented) young person is distinguished by bright, obvious, and sometimes outstanding achievements (or has internal prerequisites for such achievements) in one or another kind of activity.

The main mechanisms for supporting and developing gifted students of students are: 1) defining a strategy for finding, nurturing and educating gifted children; 2) support and

development of a unified and continuous formation of the intellectual potential of the Republic of Kazakhstan; 3) promoting the social and cultural development of talented youth.

SWOT analysis of the standard "Students"

S (strength) - strengths (potentially positive internal factors)	W (weakness) - weaknesses (potentially negative internal factors)
The practice of recognizing higher education qualifications, periods of study and prior studies, including the recognition of non-formal and informal studies	
The functioning of the educational information portal AIS "PLATONUS"	Low percentage of student participation in the implementation of academic mobility
High level of social protection of students	It is necessary to further improve the methods of social protection of low-income students, undergraduates and doctoral students.
As part of academic mobility, students are given the opportunity to study certain disciplines in other educational organizations of the Republic of Kazakhstan with which there is a bilateral agreement	
The department maintains contacts with graduates of the EP, on the basis of the department an association of graduates is created	
O (opportunity) - favorable opportunities (potentially positive external factors)	T (threat) - threats (potentially negative external factors)
Development and strengthening of relations with foreign educational institutions and educational organizations	The absence in schools of near and far abroad doctors of PhD, in the direction of training
	Lack of interest of organizations carrying out practical training associated with low pay professionals leading classes

According to this standard, 12 criteria are disclosed, according to the standard of specialized accreditation. Of these, 9 have a strong position, the rest are satisfactory. Analysis of the contingent of students showed that the work of the faculty and administration in the organization of the educational, scientific and educational process is conducted at a fairly good level.

Within the framework of this standard, it is necessary to strengthen the work related to 1) providing opportunities for external mobility of students of EP, as well as assist them in obtaining external grants for training; 2) recognition of the results of academic mobility of students, as well as the results of additional, formal and non-formal education; 3) the development of a mechanism to support gifted students.

Plan to eliminate weaknesses

№	Weak sides	Activities
1	Low percentage of student participation in the implementation of academic mobility	Conduct explanatory work with students and undergraduates about the importance of academic mobility in improving the quality of training
2	It is necessary to further improve the methods of social protection of low-income students.	Quarterly organize one-time financial support for socially vulnerable students
3	The absence in schools of near and far abroad doctors of PhD, in the direction of training	Develop an action plan for the search and involvement of doctors PhD, in the direction of training
4	Lack of interest of organizations carrying out practical training associated with low pay professionals leading classes	Conduct explanatory work with representatives of the practice base on the importance of professional practices in improving the quality of training



## 8 Faculty

Formation of teaching staff is carried out in strict accordance with the typical qualification characteristics of the positions of teaching staff and persons equivalent to them, approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 13, 2009 №338 with the latest changes and amendments.

Analysis of the conditions for the implementation of the EP showed that the quality indicator of staffing corresponds to the standard established by the license. The average scientific graduation rate for the reporting period was 55.0%.

The EP serves a highly qualified faculty of the university: 4 doctors, 7 candidates of sciences, 1 doctor of PhD, 7 masters.

The quantitative and qualitative composition of teachers serving the EP in the basic and major disciplines is presented in Tables 6-7.

Table 6 - Information about teachers serving EP

№	Full name.	Position and rank	experience
1	Kanaev Amangeldy Tokeshevich	doctor of technical sciences, professor	50
2	Niyazbekova Rimma Kalmanbaevna	doctor of technical sciences, associate professor	32
3.	Shakirov Asgad Toleuvich	doctor of technical sciences, associate professor	48
4	Kurmangalieva Dina Bakyt-kozhaevna	doctor of technical sciences, associate professor	20
5	Zhusin Beibut Tleubaevich	Candidate of Technical Sciences, Associate Professor	15
6	Ivanchenko Alexander Vasilyevich	Candidate of Technical Sciences, Associate Professor	30
7	Khametova Shamshiyagul Bakhytkalievna	Candidate of Agricultural Sciences, Associate Professor	30
8	Khamitov Nurahmet Makhmutovich	Candidate of Technical Sciences, Associate Professor	18
9	Zhalkenova Sara	Candidate of Technical Sciences, Senior	39

	Tazhetovna	Lecturer	
10	Zhsupbekov Zhandarbek Minbaevich	Candidate of Agricultural Sciences, Senior Lecturer	7
11	Romanenko Svetlana Vladimirovna	Candidate of Pedagogical Sciences, Senior Lecturer	28
12	Rustembaeva Alma Nurdildakzyzy	Master, Senior Lecturer	13
13	Kulakova Natalia Fedorovna	Senior Lecturer	41
14	Gulyarenko Alexander Alexandrovich	Doctor PhD, Senior Lecturer	11
15	Nurlankyzy Zhibek	Master, Senior Lecturer	13
16	Alzhaparova Aliya Abushakhimovna	Senior Lecturer	8
17	Ayazbayeva Aizhan Bakytbekovna	Master, Assistant	10
18	Serekpaeva Mira Amangeldinovna	Master, Assistant	3
19	Akischeva Elmira Kudaybergenovna	Assistant	5
20	Kumar Amangul	Master, Assistant	11
21	Ibraeva Zhanna Tuarmanovna	Master, Assistant	12
22	Shansharova Lyazzat Sarsembayevna	Master, Assistant	2
23	Bulashev Berdibek Kabkenovich	Candidate of Agricultural Sciences, Associate Professor (part time)	22
24	Almenova Akbalyk Saruarovna	Candidate of Technical Sciences, senior teacher	23
25	Bizhanov Serik Kazhimovich	Master, Senior Lecturer (part time)	15
26	Ibzhanova Ainur	Master, Senior Lecturer	13

	Alimbaevna	(part time)	
27	Yusupova Gaukhar	Master, Assistant	3
	Turgaliyevna	(part time)	
28	Sarsembayeva Tolkyn	Master, Assistant	13
	Erzhanovna	(part time)	

Table 7 - the qualitative composition of the teaching staff according to the EP

1	Staff potential of faculty	2015- 2016	2016- 2017	2017- 2018
2.1	Number of full-time faculty members, total:	23	24	21
	including:			
	- with scientific degrees and titles (awarded by HAC RK, USSR)	12	14	12
	- Doctors of Sciences, professors (awarded by HAC RK, USSR)	3	4	4
	- PhDs, associate professors (awarded by HAC RK, USSR)	9	10	7
	- members of the National Academy of Sciences	-	-	-
	- Master of Science	8	6	7
	- PhD	-	1	1
	- members of other public academies of sciences	-	-	-
2.2	Staffing according to the staffing schedule,%	54,1	62,5	57,1
2.3	The share of faculty leading classes in the Kazakh language,%:	78,2	79,1	76,2
2.4	The average age of faculty with academic degrees and titles, years	51	54	52
2.5	The number of teaching staff who have undergone advanced training for the academic year, people	14	14	13

Information about the staffing of teaching staff in the context of EP and training courses are given in Appendix 22. For example, in accordance with the data given, 42 teachers serve undergraduate EP. 6 of them are doctors, 17 candidates of sciences, 2 doctors of PhD, 14 masters. The degree of personnel - 57%.

The department carries out a rational distribution of academic workload of teaching staff, including classroom, extracurricular workload, hours of practice, management of graduation work.

To plan the activities of the faculty developed an individual work plan for teachers. The plan has 5 sections describing the full activity of the teacher (educational, educational and methodical, scientific and methodical, educational, etc.). The teacher's individual plan is reviewed at a meeting of the department and approved by the dean of the faculty.

Every year, the head of the department analyzes the implementation of the planned work according to the individual plan of teachers, which is reflected in the annual reports and rating points.

In drawing up the workload and schedule of teachers, the administration seeks to ensure a balance between teaching and other types of work, to give the opportunity to effectively engage in research and educational, methodical and educational work.

The personnel policy of the university is aimed at providing faculty and staff with comfortable conditions both for hiring and promotion. The rights and duties of each member of the team are placed in the job descriptions; when hiring, each new employee explains the personnel policy of the university.

The personnel policy of the university reflects the institutional procedures in relation to faculty and staff (recruitment, promotion, promotion, reduction, dismissal; rights and duties, job descriptions), its accessibility for faculty and staff.

The University carries out a constant assessment of the activities of teachers through planned certification, control visits to classes, planned sociological surveys, thereby ensuring that the staff potential of the teaching staff of the university is consistent with the specifics of the EP. The certification mechanism developed at the university allows for a comprehensive assessment of the activities of teachers in the context of their functional responsibilities. The attestation format includes an analysis of the teacher's scientific and methodological achievements over the past year.

The degree of personnel potential of the department is 54.5%, which is able to ensure the strategic development of the educational and scientific process.

The department created the necessary favorable conditions for the teaching staff of the EP. The information and library center provides teachers with the right to free use of the book fund and electronic resources in all academic buildings; performs electronic delivery of ordered sources; provides free access to international subscription databases; conducts free training for teachers in training on the use of international subscription databases.

The creation of conditions for the personal development of teachers is facilitated by a set of social support measures, including benefits for medical care in a dispensary of the Republic of Kazakhstan.

In modern conditions, the role of the teacher in ensuring a quality level of education of students is high. The role of the teacher in the paradigm of student-centered learning and teaching is changing. As part of student-centered education, the student himself chooses a specific teacher in his chosen disciplines.

The university determines the contribution of teaching staff to the implementation of the development strategy of the university, and other strategic documents within the current rating system, where it also establishes the personal contribution of teaching staff of educational institutions to the implementation of the indicative tasks of strategic documents.

The department to provide opportunities for career growth and professional development of teaching staff of the EP. At the department, the formation of scientific and pedagogical personnel is carried out by preparing masters of technical sciences and a Ph.D. Currently, 14 undergraduates and 8 people in doctoral studies in the specialty "Standardization and Certification" are studying in the scientific and pedagogical direction.

The plan for further training includes the mutual attendance of classes, and the passage of short-term refresher courses, attendance at various seminars, and internships at leading universities in Kazakhstan, far and near abroad, as well as in relevant organizations. The purpose of advanced training of teaching staff is to update theoretical and practical knowledge, to obtain new knowledge on modern and promising learning technologies, etc. The approved plan for raising the skills of teaching staff is stored in the department.

The quantitative data of advanced training of teaching staff of the department are presented in table 8.

Table 8 - Professional development of the faculty

<b>№</b>	<b>Full name</b>	<b>Title</b>	<b>Place of training</b>	<b>Year of training</b>
1	Niyazbekova Rimma Kalmanbayevna	1."Means of technological instrumental, metrological, managerial support of production and technological processes of production"	Astana	2016
		2. "Equipment heating and	Astana	2016

		heating production boilers"		
2	Ayazbayeva Aizhan Bakytbekovna	1. «Training and professional development of staff in the field of technical regulation, metrology and management systems»	Astana KazStin	2017
		2. Interaction of the state and business community with the exchange of information on STC and SPS measures	Astana KazStin	2017
		3. ISO14001-2015 Environmental Management System and ISO 22004: 2014 «Food Safety Management»	Astana KazStin	2016
3	Gulyarenko Alexander Alexandrovich	1. “Manager / internal auditor of the quality management system according to ST RK ISO 9001: 2016”	Astana EC "Sapa"	2017
4	Zhusin Beibut Tleubaevich	1. “Manager / internal auditor of the quality management system according to ST RK ISO 9001: 2016”	Astana EC "Sapa"	2017
5	Zhsupbekov Zhandarbek Minbaevich	1. «Training and professional development of technical regulation, metrology and management systems»	Astana KazStin	2017
6	Ibzhanova Ainur Alimbaevna	1. «Training and professional development of technical regulation, metrology and management systems»	Astana KazStin	2017
		2. Interaction of the state and business community with the exchange of information on STC and SPS measures	Astana KazStin	2017

		3. ISO14001-2015 Environmental Management System and ISO 22004: 2014 «Food Safety Management»	Astana KazStin	2016
7	Ivanchenko Alexander Vasilyevich	1. ISO14001-2015 Environmental Management System and ISO 22004: 2014 Food Safety Management	Astana KazStin	2016
8	Kurmangalieva Dina Bakyt-kozhaevna	1. ISO14001-2015 Environmental Management System and ISO 22004: 2014 Food Safety Management	Astana KazStin	2016
		2. "Training and Skills Training in the Field of Technical Regulation, Metrology and Management Systems"	Astana KazStin	2016
9	Nurlankyzy Zhibek	1. "Training and Skills Training in the Field of Technical Regulation, Metrology and Management Systems"	Astana KazStin	2017
		2. Interaction of the state and business community with the exchange of information on STC and SPS measures	Astana KazStin	2017
		3. ISO14001-2015 Environmental Management System and ISO 22004: 2014 «Food Safety Management»	Astana KazStin	2016
10	Romanenko Svetlana Vladimirovna	1. "Labor legislation of the Republic of Kazakhstan, taking into account recent changes and amendments"	Karaganda city Scientific and Technical Center Karaganda Energy Audit LLP	2016

		2. "Actual issues of vocational training in the field of safety and labor protection"	Astana Scientific and Technical Center for Industrial Safety LLP	2016
11	Sarsekeeva Gulnar Saparbekovna	1. ISO14001-2015 Environmental Management System and ISO 22004: 2014 «Food Safety Management»	Astana KazStin	2016
		2. "Innovations in the educational process of higher education"	Astana S.Seifullin KATU	2016
		3. "Modern problems of development of fundamental and applied sciences"	Prague City Society "Science of European"	2016
12	Serekpaeva Mira Amangeldinovna	1. "Training and Skills Training in the Field of Technical Regulation, Metrology and Management Systems"	Astana KazStin	2017
		2. «Issues of improving the quality of secondary and higher education: ways of solution, basics of study science»	Astana Academy of Pedagogical Sciences	2016
13	Yusupova Gaukhar Turgaliyevna	1. SO14001-2015 Environmental Management System and ISO 22004: 2014 «Food Safety Management»	Astana KazStin	2016
		2. Resolution of the Government of the Republic of Kazakhstan №579 dated 08.10.2016. He studied language courses at Pedagogy Micro Degree	AlmatyAbayKaz NPU	2016
		3. «Innovations in the	AstanaS.Seifullin	2016



		educational process of higher education»	KATU	
		4. "Problems of improving the quality of secondary and higher education: ways of solution, basics of study science"	AstanaKazPSA	2016
14	Shakirov Asgad Toleuovich	1. ISO14001-2015 Environmental Management System and ISO 22004: 2014 Food Safety Management		2016

To give lectures, the department attracts managers and specialists of industry enterprises, experts of the state system of technical regulation. At the same time, professors from other leading universities and enterprises are invited to the educational process. Thus, the Chairman of TC 59 on Standardization, Candidate of Agricultural Sciences, Associate Professor, Deputy General Director of KazNIIPSHP Bulashev B.K., Head of the Department for Training, Certification and Scientific Work of RSE "KazInSt", Candidate of Technical Sciences Almenova A. are invited to give lectures on the specialty.

One of the priorities of the department is the development of a quality level of faculty. The department annually accepts for study in the magistracy and doctoral studies the best graduates. The department "Standardization, Metrology and Certification" carries out a well-thought-out policy in the field of forming a reserve of young teachers. From 2015-2016 ac. years to the present, the position of the department assistants Kumar A., Serikpaeva M.A, Sarsembayeva T.E and Ibraeva M.T, graduates from the magistracy at the department were taken. At the university, in order to improve the professional level, motivate teachers and encourage employees, a rating system and rewards for teachers and staff for personal contribution and results achieved in their work are conducted. Employees are rewarded based on the results of the academic year, the success of the admission campaign, for their contribution to the use of innovative technologies in the process of teaching students, certification, accreditation, scientific results, to anniversaries and official public holidays. Mechanisms to stimulate the professional and personal development of faculty are reflected in the Collective Agreement, and in the Regulation on the remuneration of employees of JSC " S. Seifullin KATU" and other payments to the PTRVA QMS 11010.51 - 2013 and the Regulations on the awards in the JSC" S. Seifullin Kazakh Agrotechnical University " QMS 11010.50 - 2013. The above documents guarantee the

social protection of employees of JSC" S. Seifullin KATU". 50 - 2013. The above documents guarantee the social protection of employees of JSC" KATU them. S.Seifullin.

Also, the University has developed and operates QMS 11010.123 - 2015 Regulations on the procedure for conducting the internal selection stage for teachers of S. Seifullin KATU to participate in the competition "The best teacher of the university" and the Regulation on the competition "The best young researcher of the year." Professor, Doctor of Technical Sciences Kanaev A.T. He is the winner of the "Best University Teacher 2015" award.

The educational process at the department is carried out on the basis of innovative learning technologies (case studies, business and role-playing games, trainings, debates, round tables, seminars, brainstorming, case-study (case study, situational analysis), master classes, video lectures, creative training), informatization and computerization of the entire learning process, application of new concepts in the field of education and science, improvement of traditional teaching methods, creation and constant replenishment of the electronic learning tools. The faculty of the department conducts 90% of classes using technical means of training. The results of practical understanding of innovative forms of education are discussed at the meeting of the department, methodological seminars, scientific and practical conferences. Promotion of faculty, applying innovations in the educational process, carried out by means of moral and material incentives.

During the reporting period, in order to develop academic mobility, foreign teachers were invited to give lectures in the direction of the department's activities. For example, in 2015-2016 ac. years during the month (November 2015), Professor Dr. Temel Sariyildiz from the University of Kastamonu conducted classes for the teaching staff of the EP in current areas and aspects of international standardization.

The teaching staff of the department is always ready to conduct one or another type of activity (one-time educational activities: meetings, rallies, community work days). Formation and development of corporate and public culture at the department is based on a clear understanding of the realities and significant changes in society, in its value priorities, such as the distribution of responsibility for the social order for education between the state, family and enterprises, the responsibility of the individual for their own well-being and welfare of society, the need to counteract negative social processes. The faculty of the department takes an active part in city and university events, in sports days, in charity.

In order to provide basic and profiling disciplines of teaching staff of the department, 15 textbooks and teaching aids were prepared and published, the list of which is given in Appendix 23. Also, teaching staff of the educational program published 2 monographs:

- Niyazbekova R.K., Userbaev M.T., Shakhanova G.G., Zhalkenova G.S., Sarsekeeva G.S., Almenova A.S., Sarieva D.Z., Otarbaeva L.S. Development of tools for technical regulation of the commodity market of packaging and packaging / National Agency for Export and Investments JSC KAZNEXINBEST, Astana, 2015 - 145 p .;

- Niyazbekova R.K., Otarbaeva L.S., Omarbaeva A.N. Quality control in the design of composite materials based on cement / Printing house of Master-PO LLP, Astana, 2015 (ISBN 978-601-301-365-7) - 150 p.

The teaching staff of the EP actively participates in the implementation of scientific programs and projects:

- Doctor of Technical Sciences, Professor A. Kanayev The head of the grant project for BP 055: "Development of innovative technology and equipment for organizing the production of new heat-strengthened materials demanded by the construction industry of the country" Amount 14 000 000 tg. The deadline is 2015-2017;

- candidate of agricultural sciences, associate professor Sh. B. Khametova Head of the initiative theme No. 015PK03071 from 03.2015 to 12.2017. "Harmonization of technical regulations of the Republic of Kazakhstan on ensuring the safety and quality of crop and livestock products under the conditions of the Eurasian Economic Union"; - Ph.D., senior teacher Almenova A.S. Head of contractual theme 2704 / GF4 "Scientific and technical basis for the creation of heat-insulating heat-resistant composite materials based on aluminate cements and carbon nano-additives" for laboratory research. The amount of 1 000 000 tg. December 2016;

- Candidate of Agricultural Sciences, Associate Professor Bulashev B.K. project executor: Development of technology for production of biodegradable polymers (budget program 212, 2015-2017); Development of technology for the production of new types of oxidized starch (budget program 212, 2015-2017); Development of resource-saving technologies for processing waste of rice processing enterprises of the Republic of Kazakhstan with obtaining high value-added products (budget program 212, 2015-2017); Development of optimal technological regimes for the production of high quality syrup (budget program 055, 2015-2017); Development of technologies for the production of maltose syrups of different carbohydrate composition and maltin from starch of grain crops using biotechnology methods (budget program 055, 2015-2017).

In addition, the teaching staff of the EP takes an active part in competitions for grant financing, program-targeted funding, grant funding for commercialization projects, the administrator of which is MES RK, Ministry of Agriculture RK, development institutions.

Staffs are published in domestic and foreign scientific journals. The index of scientific publications of faculty is increasing every year. The proof is the fact of the publication of articles of teachers in domestic scientific journals, in international journals and journals with non-zero impact factor.

During the reporting period, the department staff published 92 articles in journals recommended by the KKSON (Table 9), as well as in foreign rating scientific journals. Publication activity in foreign rating publications of the teaching staff of the educational institution is listed in Appendix 24.

Table 9 - Works of the teaching staff of the educational institution published in the recommended editions of the Committee for Security and Discrimination

№	Title	Printed as a manuscript	Publisher, magazine, (title, number, year) or patent number	№ 1	Surnames of authors
1	Factors determining the reliability of the implementation of the process of using tractors in crop production		Bulletin of ENU. L.N. Gumilyov, 2017, №2	4	Zhusin B.T., Gulyarenko A.A., Kaimova G.T.
2	Evaluation and prediction of reliability in engineering	Printed	University Proceedings. 2017. №2, Karaganda, 144 p.	5	Zhusin B.T., Gulyarenko A.A.
3	Ауылшаруашылық машиналарын пайдаланудың тиімділігін көтеру мәнісі	Printed	Bulletin of KazNRTU, №2 (120), March 2017	3	Zhusin B.T., Gulyarenko A.A.
4	Comparative study of various methods of heat treatment of solid-rolled wheels of freight cars	Printed	Bulletin of ENU. L.N. Gumilyov, 2017, №2	7	Sarsembayeva T.E.
5	Complex surface	Printed	Bulletin of ENU.	9	Kanaev A.T.,

№	Title	Printed as a manuscript	Publisher, magazine, (title, number, year) or patent number	№ 1	Surnames of authors
	hardening of wheel steel		L.N. Gumilyov, 2017, №4		Sarsembayeva T. E.
6	Structural and methodological sequence of actions to meet the requirements of labor protection in the graduation design	Printed	Bulletin of ENU. L.N. Gumilyov, 2017, №2	3	Kurmangaliyeva D.B., Kulakova N.F., Khametova Sh.B., Kumar A.
7	Food safety as an object of management	Printed	Bulletin of Shakarim State University, Semey	3	Kurmangaliyeva D.B., Khametova Sh.B.,
8	Technical requirements of ST RK 1125-2002 to road signs of the Republic of Kazakhstan	Printed	Bulletin of ENU. L.N. Gumilyov, 2017, №2	5	Khametova Sh.B., N. Nyrlankyzy

The list of patents, pre-patents, copyright certificates of the teaching staff of the EP in the specialty "Standardization and Certification" is given in Appendix 25.

#### SWOT analysis of the standard "faculty"

S (strength) - strengths (potentially positive internal factors)	W (weakness) - weaknesses (potentially negative internal factors)
Full compliance of the teaching staff with the qualification requirements of the authorized body in the field of education	High average age of gradual Staff
The staffing policy of the university is aimed at providing faculty and staff with	Poorly developed academic mobility of faculty

comfortable conditions both for hiring and promotion.	
The certification mechanism developed at the university allows for a comprehensive assessment of the activities of teachers in the context of their functional responsibilities.	
For lecturing, the department attracts managers and specialists of industry enterprises, experts of the state system of technical regulation	
Qualitative and quantitative indicators of scientific publications of the teaching staff of the educational program increases every year.	
O (opportunity) - favorable opportunities (potentially positive external factors)	T (threat) - threats (potentially negative external factors)
Attracting foreign partners to the training of personnel in the field of specialty "Standardization and Certification"	Insufficient funding of teaching (retraining) teaching methods for obtaining educational grants for postgraduate and doctoral studies
Further development of partnerships with universities in the near and far abroad	

According to this standard, 12 criteria are disclosed, according to the standard of specialized accreditation. Analysis of the qualitative composition of teaching staff and the level of teaching showed that it is necessary to continue to train young teachers, both at the base of the university, and at the base of other leading universities in the near and far abroad. To stimulate the teaching staff at the end of the school year, a summary and rating is carried out, which is the basis for stimulating the quality of teachers' work.

Within this standard, the EP management should strengthen a number of criteria related to the development of academic mobility within the EP, attracting the best foreign and domestic teachers, active use of information and communication technology teaching staff in the educational process (for example, on-line learning, e-portfolio, MEP and etc.).

Plan to eliminate weaknesses

№	Weak sides	Activities
1	High average age of gradual staff	Involve graduate and doctoral graduates, young scientists and specialists in the educational and methodical work
2	Insufficient funding of teaching (retraining) teaching methods for obtaining educational grants for postgraduate and doctoral studies	Increase the number of grants for the preparation of masters and doctors PhD in the scientific and pedagogical direction
3	Poorly developed academic mobility of faculty	To focus on the development of academic mobility of teaching staff

## **9 EDUCATIONAL RESOURCES AND STUDENT SUPPORT SYSTEMS**

For the implementation of research at the university on the basis of each department opened research centers, where faculty and students conduct their research.

For the development of the scientific potential of young scientists and students at the University, there is a Council of young scientists. The main tasks of the Council are to promote the professional growth of scientific youth of S.Seifullin KATU, the development of youth research initiatives and the consolidation of young scientific personnel in S.Seifullin KATU.

Training materials, software, literature is available for all students. Students can use the educational materials available in the department, use the university library, Internet class.

The maintenance of EP by information technologies is carried out by the Council for Informatization. Council for Informatization of S.Seifullin Kazakh Agrotechnical University is a permanent coordination and scientific advisory body of the Academic Council of S.Seifullin Kazakh Agrotechnical University in solving problems of the use and development of information technology.

The university practiced the publication of electronic textbooks that are posted on the site and are freely available. To comply with copyright, the authors are issued a certificate for this edition.

Thus, within the framework of the Standard Resources Available EP, in order to provide educational programs in the specialty Standardization, Certification and Metrology, the university has service departments that work to meet the educational, personal, and career needs of students: a hostel, canteens, a medical center, and gyms , computer centers, libraries, etc.

S.Seifullin KATU has the appropriate means for training and teaching activities and to ensure the provision of adequate and easily accessible resources for training and support of students, undergraduates and doctoral students in EP.

The development and strengthening of the material and technical base, the information and library system is of great importance, since the indicators of the material, technical, library and information resources of the educational process are a potential characteristic of the specialty and a guarantee of its stability and dynamic development.

The development and improvement of the material and technical base of the department is carried out on the basis of the Development Strategy of S. Seifullin KATU,



also on the basis of long-term and annual plans. The resources used to organize the learning process are sufficient and meet the requirements of the EP.

The development of material and technical base and information support is carried out in accordance with the standards of the organization “Management of material and technical support” and “Management of information resources of a scientific library”. Management of information resources in the library includes processes: modeling, picking and accounting, document processing, organization, placement and use of a documentary fund, the creation of electronic and traditional reference bibliographic apparatus (hereinafter referred to as the SBA), the use of its own electronic resources.

The planning of material and technical supply begins with the collection of applications from all departments of the university, by November 1. Consideration of applications of divisions is made at the university administration, the final list and the volume of acquisition of the necessary material values are agreed with the heads of departments. The economic planning department forms a public procurement plan and calculates funds for their purchase.

The analysis of material and technical supply is carried out quarterly (monthly if necessary) and at the end of the year by comparing actual data with the public procurement plan. Analysis data are provided to the Deputy Chairman of the Board for Infrastructure Development. Twice a year, a report is submitted (semi-annually and annually) to the Ministry of Finance to the government procurement committee.

At the meeting of the department at the end of the school year, the analysis of the resources available to the EP (classrooms, laboratories, computers, necessary equipment, training materials) is carried out and, based on the analysis carried out, a plan is prepared for the publication of EML, applications are submitted for state purchase, it is planned to recruit students for the first year.

To promote the formation of professional competencies and the continuous improvement of the learning environment, the university strives to provide the learning process with a more modern material base. Annually, new computers, interactive projectors, modern educational equipment are procured. Attention is paid to improving the production environment and infrastructure.

The Department of Standardization, Metrology and Certification has an educational and material base that provides training of specialists in accordance with the requirements of state obligatory standards, including 6The fund of educational, methodical and scientific literature on general educational, basic and major disciplines of the EP is formed on paper and electronic media. The renewability of the fund of literature complies with the standards

defined by qualification requirements for licensing. The library fund is formed in accordance with the disciplines studied and the order of the MES RK No. 508 of July 18, 2003 “On Approval of the Instruction on the Formation of the Fund of the Library of the State Educational Establishment of the Republic of Kazakhstan”.

Information on the availability of food and medical facilities for students, libraries in the framework of the EP are given in Appendix 26.

Information about the book fund of educational literature EP and the purchase of educational and methodical literature at the request of the departments and the amount of funds allocated is given in tables 10 and 11.

Table 10 - Book Fund of EP educational literature

2015-2016		2016-2017		2017-2018	
Security for 1 tutoring.	including kaz. language	Security for 1 tutoring..	including kaz. language	Security for 1 tutoring.	including kaz. language
143	718441	150	724733	153	725318

Table 11 - Procurement of educational and methodical literature at the request of departments and the amount of funds allocated

2015-2016		2016-2017		2017-2018	
Instance	Sum	Instance	Sum	Instance	Sum
85312015	32,39 mln. tg	86488915	44,3 mln. tg	87336620	45,408 mln. tg

Performed research, final works, dissertations on the EP are checked for plagiarism. According to the results of the examination, a document is issued, a copy of which is stored at the department.

Students, undergraduates and doctoral students of the department have free access to the Kazakhstan National Electronic Library, the Republican Intercollegiate Electronic Library [www.rmeb.kz](http://www.rmeb.kz), the scientific electronic library [eLIBRARY.ru](http://eLIBRARY.ru), Thomson REUTERS WEB OF KNOWLEDGE, ELSEVIER POLPRED.COM The scientific and electronic works in the same way University library, which provides students and teachers access to foreign full-text databases using a license agreement with the operator of resources [elibrary.ru](http://elibrary.ru).

Students, undergraduates and doctoral candidates of EP have access to personalized interactive resources on the website of KATU. Students have access to the department’s e-

learning resources and teaching materials on the website of the university library. The site determines the choice of its trajectory in the specialty of training. Students have access to the portal, where all electronic resources are located that help students in the planning and execution of EP.

In educational buildings and student dormitories operates Wi-Fi.

Table 12 - Analysis of the provision of EP technical training tools

№	Equipment name	Amount		
		2015-2016	2016-2017	2017-2018
1	PC	12	25	25
2	A laptop	4	4	4
3	Multimedia projector	3	3	3
4	Interactive Projector	2	2	2

Projectors are placed in classrooms. Created a local network.

Table 13 - the security of the OP technical training tools

Classrooms	Equipment			
	computer	models and devices	posters	Video Projector
3109	-	-	-	-
3201		Calipers Electronic Micrometer Calibration plate Threaded pattern Measures of length	+	+
3209	-	-	-	+
3220		Laboratory stand "Protective grounding and zeroing" BZh 6/2 Laboratory table BZh 6/2 Laboratory installation "Protection against vibration" Laboratory installation "Definition of		+

		<p>Laboratory installation "Sound insulation and sound absorption"</p> <p>Laboratory installation "Efficiency and quality of lighting"</p> <p>A set of chemical tools for assessing air quality "NHS-" air BZhS-7 "</p> <p>Typical set of equipment for the laboratory "BZ and ecology BZHE"</p> <p>Training stand-simulator "Security and Fire Alarm" OPS</p> <p>Virtual laboratory</p> <p>Workshop "Radiation Safety" Noise meter and vibrations</p> <p>Laboratory stand "Protection against microwave radiation" BZhS - 7</p>		
3222	-	-	-	+
3223	1 (complete with AWP Metrologist)	<p>Workstation engineer metrology</p> <p>Infection Kit</p> <p>Grain magnifier</p> <p>Cups (large and small)</p> <p>Desiccator</p> <p>electronic scales</p> <p>Mill</p> <p>Moisture meter</p> <p>IOC device</p> <p>IDK device - 1</p> <p>Destation mixer</p> <p>Drying cabinet</p> <p>Доска разборная</p> <p>Пурка литровая</p>		+

On the basis of the department there are 3 specialized educational laboratories: "Determination of the quality of agricultural products", "Technical measurements" and "Labor protection".

Educational specialized classrooms of the department are equipped with devices, equipment, materials necessary for the educational process.

All laboratories are certified, provided with fire extinguishing means. For students and staff, primary and repeated safety instructions are given when working in the laboratory, and instruction is recorded in a special journal. Laboratories regularly monitor the state of communications and equipment. All laboratory rooms have natural and artificial lighting.

Training of students, bachelors and doctoral students in safety requirements is carried out in accordance with the normative document SEST 12.0.004-2015 - "STBT. Organization of occupational safety training. General provisions.

Safety requirements in the learning process are carried out by conducting briefings before leaving for the practice of students, as well as before conducting laboratory classes. For this purpose, the teaching staff of the department has developed methodical instructions "Instructions for labor protection for students going to practice" and instructions for safety and rules of behavior of students in classrooms. A briefing is made on the instruction logbook for safety and fire safety at the workplace with the obligatory signature of the instructed person and the instructor.

For more successful implementation of student-centered education, active participation of students in the educational process, KATU implements a policy of flexible support for students of different categories.

University is respectful and attentive to the needs of students with limited physical and material capabilities (students with disabilities, orphan students, students left without parental care, from large families). To this end, both material support and the provision of a choice of forms of education are envisaged. For example, a 3rd year student Zhusupov T.Sh. by a free bed in a university dormitory and free meals once a day. Local student of the 4th year M.E. Takiyev has a free meal at the university once a day.

SWOT analysis of the section "Educational resources and student support systems"

<b>S (strength) - strengths (potentially positive internal factors)</b>	<b>W (weakness) - weaknesses (potentially negative internal factors)</b>
Within the framework of the EP, there are services that work to meet the educational, personal and career needs of students: a hostel, canteens, a medical center, gyms, computer centers, libraries, etc.	

Student academic support services have been established and are functioning: a registrar office (RO), an advisory service and a student social support service.	
Availability of an electronic database of national standards NS RK	
High level of information resources	Outdated information equipment and software, as well as low Internet speed
The presence of an extensive scientific library that meets the needs of students of EP	
Availability of resources of the scientific library, specialized classrooms, social facilities of the university	Not enough seats in the library reading room
O (opportunity) - favorable opportunities (potentially positive external factors)	T (threat) - threats (potentially negative external factors)
Improving the library and information and communication system of the university integrated into the global information space	
Developed planning system for the university resource base	Insufficient effectiveness of the implementation of the plan for the development of the resource base of the university

According to this standard 10 criteria are disclosed, according to the standard of specialized accreditation. An analysis of the available resources has shown that, despite the work done to ensure the organizational, scientific, educational and educational process with material resources, security does not remain at a sufficient level.

Within the framework of this standard, the EP management should strengthen the following criteria: strive to ensure that the training equipment and software used for the development of the EP are similar to those used in their respective industries; strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, and students with disabilities).

Plan to eliminate weaknesses

<b>№</b>	<b>Weak sides</b>	<b>Activity</b>
1	Outdated information equipment and software, as well as low Internet speed	Update outdated information equipment and software, as well as increase the speed of the Internet
3	Not enough seats in the library reading room	Increase the number of seats in the library reading room
4	Insufficient effectiveness of the implementation of the plan for the development of the resource base of the university	Ensure the effectiveness of the implementation of the plan for the development of the resource base of the university

## 10 PUBLIC INFORMATION

The management of the university and the teaching staff of the university EP systematically informs the general public about the activities of KATU through the following forms:

- the official website of the university [www.kazatu.kz](http://www.kazatu.kz)
- Carrying out career guidance in schools and colleges in Astana and regions of Kazakhstan;
- publications in republican, regional and city mass media and social networks;
- participation in television programs of the agency "Kazakhstan", "Khabar", etc.

The articles contain information on the implementation by the university of complex work on the improvement of the educational services provided, the implementation of the main directions of the “100 concrete steps” program and the strategic directions for the development of the university, and the high results of educational programs.

Teachers of the department annually give visiting lectures to students of district, city and regional schools. The department has a stand informing about the specifics of the specialty, the results and achievements of the EP.

Information on the number and content of educational programs, as well as a description of the main competencies is available on the website of the Institute [www.kazatu.kz](http://www.kazatu.kz)

The site [www.kazatu.kz](http://www.kazatu.kz) publishes information from the EPs of the specialty "Standardization and Certification", where the expected learning outcomes are indicated. For example, on the website [www.kazatu.kz](http://www.kazatu.kz) in the section "Specialty" full information is given on educational programs of the specialty "Standardization and Certification":

- the name of the specialty on the 3rd levels of training;
- qualifications awarded after the end of the EP;
- terms of training;
- forms of education;
- a short description of the scope of knowledge;
- employment prospects;
- a brief description of the skills;
- summary of the program;



- Place of study in the national rating of the Independent Agency for Accreditation and Rating.

Students who graduate from the specialty 5B073200 - "Standardization and Certification" qualify: Bachelor of Engineering and Technology, undergraduates in the specialty 6M073200 - "Standardization and Certification" - Master of Technical Sciences, doctoral students in the specialty 6D073200 - "Standardization and Certification" - Ph.D. specialty.

Objective and relevant information on teaching, training, evaluation procedures is given in the Academic Policy of the university, approved by the Academic Council of S.Seifullin KATU JSC, Protocol No. 21 of June 30, 2017.

Information about the scores and training opportunities provided to students, are given in the Academic policy of the university, approved by the Academic Council of S.Seifullin KATU JSC, Protocol No. 21 of June 30, 2017.

Information about employment opportunities for graduates of EP is posted on the website [www.kazatu.kz](http://www.kazatu.kz) in the section "Employment of graduates of S. Seifullin KATU". Also in this section there is information about the employment of graduates of S.Seifullin KATU for the period for the reporting period, schedules for the "Graduate" fair, regional needs for specialists of S. Seifullin KATU, regional needs for specialists according to the research and production enterprise "Atameken".

At the university, a special structural unit, the Career and Business Center (8 (7172) 31-73-43), deals with employment issues.

Information about the educational program, the number of students enrolled in programs, teachers who provide training, is constantly published on the website, the university portal, information boards, booklets. The department has an information stand, informing about the specifics of the specialty, the results and achievements of the EP. Articles about the life of students, materials of the results of scientific research of teachers of the department are published in the newspaper of the University "My University".

As an effective tool for informing the public, to create an image of an open educational institution, various media resources are used, press conferences and briefings are held, business contacts with editorial offices of newspapers, magazines, radio, and television are activated.

In 2015-2018, more than 50 materials were published on the activities of the university and on the EP in the republican and regional media, on the site [www.kazatu.kz](http://www.kazatu.kz)

Within the framework of public information, the university and the administration of EP provide support and explanation of the country's national development programs and the system of higher and postgraduate education.

A list of publications of the university and the department, contributing to the explanation of educational policy and current trends, can be found by clicking on the link ....

Public awareness also includes information on the implementation by the university of the provisions of the program, taking into account the profile of the organization of education.

Audited financial statements are presented on the website [www.kazatu.kz](http://www.kazatu.kz) in the section "Financial statements" in the form of separate financial statements and consolidated financial statements for the years.

The site [www.kazatu.kz](http://www.kazatu.kz) provides detailed information describing the university as a whole:

History of University

Facts and figures

Vision, mission, strategy of JSC "S.Seifullin KATU"

Accreditation

Organizational structure

Administration

Rector's reports

Corporate Governance

Graduates - KATU pride

Alumni club

University Achievements Ratings

Mass Media about us

The museum

Regulations on the internal regulations of JSC S.Seifullin KATU

Press room

Quality Management System

Jobs

Center for the Development of International Cooperation and Multilingual Education

Newspaper "University Men"

Video archive

How to find us

Trade union committee

Financial statements

Public Fund: “Development Fund of S.Seifullin Kazakh Agrotechnical University”

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Information in the context of EP is presented in the subsection "Standardization and Certification", which specifies the qualifications of the EP by level of training, terms and forms of training, a brief description of the field of application of knowledge, employment prospects, a brief description of skills, a summary of the EP, information on educational trajectories, the place of EP in the National Independent Accreditation Agency Rating and Rating.

On the website [www.kazatu.kz](http://www.kazatu.kz) in the subsection "The Department" Standardization, Metrology and Certification "of the" Faculties and Chairs "section there is a summary of the teaching staff of the educational program and full information about the staff of the educational program. Information about the teaching staff of the educational institution is regularly updated.

The university's press center on a systematic basis informs the public about cooperation and interaction with external partners in the framework of EP, including with research institutes and centers, consulting organizations, business partners, social partners, public organizations and universities.

On the university's website, facebook's social network and in the newspaper “My University” it publishes up-to-date, up-to-date information about upcoming joint events, conferences and other events held by KATU with its partners.

The active link to the above information is <http://kazatu.kz/ru/ob-universitete/press-centr/>

The website [www.kazatu.kz](http://www.kazatu.kz) in the section "University Achievements in Ratings" contains information and links to external resources on the results of external assessment procedures.

World QS World University Rankings page  
<http://www.topuniversities.com/university-rankings>

Webometrics Ranking of World Universities ranking page  
<http://www.webometrics.info/en/Asia/Kazakstan>

The page of the Independent Agency for Accreditation and Rating  
<http://www.iaar.kz/ru/>

Page of Independent Kazakhstan Agency for Quality Assurance in Education  
<http://nkaoko.kz/KATU> participates in the world and Kazakhstan rankings, foreign

agencies QS World University Rankings, Times Higher World Education University Rankings, Webometrics Ranking of World Universities and Kazakhstan rankings of the Independent Accreditation and Rating Agency (IAAR), Independent Kazakhstan Agency for Quality Assurance in Education ( IQAA).

The Independent Agency for Accreditation and Rating (IAAR) has identified the best universities in Kazakhstan. In May 2018, according to the results of the rating, KATU took the 4th place in the rating. Applications for participation in the National Rating of the IAAR were submitted by 75 universities of the republic. In the ranking of the Republic of Kazakhstan in 2018, 58 universities are included, of which 6 are national, 21 state, 7 joint-stock and 24 private educational organizations.

In 2016, the university was first noted in the ranking of universities in Eastern Europe and Central Asia of the QS University Rankings: EECA 2016 top 200, which included only 18 universities in Kazakhstan.

World QS World University Rankings page  
<http://www.topuniversities.com/university-rankings>

Ranking Webometrics Ranking of World Universities, compiled by the Spanish research group Cybermetrics Lab., Assesses how a particular university is represented in the global Internet space. At the moment, in the Webometrics ranking, S. Seifullin KATU takes a position of 13675.

Webometrics Ranking of World Universities ranking page  
<http://www.webometrics.info/en/Asia/Kazakstan>.

Among the national rankings, the university annually participates in the Independent Rating of Universities in areas and levels of training of specialists conducted by the Independent Accreditation and Rating Agency (IAAR).

The page of the Independent Agency for Accreditation and Rating  
<http://www.iaar.kz/ru/>

S.Seifullin KATU participates in two national rankings and 2 foreign ones (QS and Times Higher Education):

1) the rating of the Independent Accreditation Agency and the rating, In 2015, in the rating of the Independent Accreditation Agency and the rating of S.Seifullin KATU from 40 universities of Kazakhstan took the 5th place, among agricultural universities it took the 1st place.

Top places: 12- I places, 8-II places, 10-III places. 19 scientists entered the TOP-50 best teachers.

In 2016, in the rating of the Independent Accreditation Agency and the rating of KATU after S.Seifullin in the direction of "Agricultural Sciences" took 2nd place. Prizes: 9-I places, 21-II places, 16-III places.

In 2017, in the rating of the Independent Accreditation Agency and the rating of KATU after S.Seifullin in the following directions: Agricultural sciences - 2nd place, veterinary science - 2nd place, art-5th place, technical - 7th place, economy –6th place.

Prizes: 24-I places, 18-II places, 7-III places.

General rating of faculty members of universities of the Republic of Kazakhstan: Eskhozhin D.Z – 11

2) In the rating of the Republican rating agency, in 2017, the Republican rating agency "General ranking of universities - 2017" KATU them. S.Seifullin took 11th place. Prizes: I-32 places, II - 33 places, III - 12 places.

And also for the first time in 2016, we took part in the general ranking of universities conducted by the Independent Kazakhstan Agency for Quality Assurance in Education (IKAQAE).

Page of Independent Kazakhstan Agency for Quality Assurance in Education <http://nkaoko.kz/>

The educational programs of specialty 5B073200 - Standardization and Certification and 6M073200 - Standardization and Certification in the national rating of the IAAR occupy 7th and 8th places respectively (2016).

Since 2004, a certified quality management system has been operating at KATU. Maintaining the QMS in working condition is carried out through the improvement of the internal regulatory framework, which consists of more than 300 documents, by systematically conducting an internal audit, as well as inspection control by the certification body.

#### SWOT analysis of the section "Public Information"

S (strength) – strengths (potentially positive internal factors)	W (weakness) – weaknesses (potentially negative internal factors)
The EP manual systematically informs the general public about the EP through <a href="http://www.kazatu.kz">www.kazatu.kz</a> , career guidance, publication in	Irregular update of the news feed on the website of the university on the EP

republican, regional and city media and social networks, participation in television programs, etc.	
Information about the EP, the number of students of the EP, teachers who provide training, is constantly published on the website, the university portal, information boards, booklets	Non-system update of information about EP
Articles about the life of students, materials of the results of scientific research of teachers of the department are published in the university newspaper “Menin Universitetim”	Low level of use of search engine capabilities on the university website
Public awareness also includes information on the implementation by the university of the provisions of the program, taking into account the profile of the organization of education	
The site <a href="http://www.kazatu.kz">www.kazatu.kz</a> has a summary of the teaching staff of the EP and full information about the staff of the EP	
The press center of the university on a systematic basis informs the public about the cooperation and interaction with external partners in the framework of the EP	
O (opportunity) – opportunities (potentially positive external factors)	T (threat) – threats (potentially negative external factors)
Regular and systematic updating of information about EP and news feed on the website of the university on EP	Reducing the level of awareness of students, parents, employers and other stakeholders in the EP

According to this standard, 13 criteria are disclosed, according to the standard of specialized accreditation. An analysis of external communication systems has shown that, despite the work done to ensure public awareness, there are problems associated with the irregular updating of materials and news on the university website on EP.

The leadership of the EP in the framework of this standard should pay special attention to public awareness in order to explain the national development programs of the country and the system of higher and postgraduate education.

Plan to eliminate weaknesses

№	Weak sides	Measures
1	Irregular update of the news feed on the website of the university on the OP	The administration of the EP take on a special control updates of the news feed on the website of the university on the OP
2	Non-system update of information about EP	OP management should take special control of updating information about OP
3	Low level of use of search engine capabilities on the university website	To increase the level of use of the search engine on the university website
4	Reducing the level of awareness of students, parents, employers and other stakeholders in the EP	Finding ways to increase the awareness of students, parents, employers and other stakeholders in the EP

## 11 STANDARDS IN THE CONTEXT OF INDIVIDUAL SPECIALTIES

EP of the specialty “Standardization and Certification” at the 3<sup>rd</sup> level covers the main urgent issues and problems that are methodical and practical in nature, they are linked to the practice of organizing activities in the field of standardization and certification of business entities in the effective development and provision of standardization methods in improving efficiency production and competitiveness of farm products. The department "Standardization, Metrology and Certification" in the implementation of EP for the preparation of bachelors, undergraduates and doctoral students of the specialty "Standardization and Certification" operates in accordance with the regulations of the Ministry of Education and Science of the Republic of Kazakhstan.

The development plan and objectives of the EP in the specialty "Standardization and Certification" was developed in accordance with the national development priorities defined in the strategy "Kazakhstan - 2050": maximum satisfaction of the current and future needs of the national economy for specialists. The development plan and objectives of the EP are developed in accordance with the educational policy of the Republic of Kazakhstan. The objectives of the EP meet the needs of the state, stakeholders and students in high-quality educational services. The circle of interested parties includes all participants in the implementation of the EP, as well as employers - large companies and enterprises, whose profile corresponds to the areas of training.

In drawing up the development plan for EP, the opinions of interested parties of those companies that produce goods with a wide range of products in modern market relations and constantly use marketing research tools when selling their products are taken into account. In order to take into account the interests of employers in the development of the educational program, potential employers took an active part in the formation of the Catalog of elective disciplines, such companies as the Technical Regulation Committee, RGO KazInMetr, RGO KazInSt, LLP National Accreditation Center and others

Thus, the assessment of the effectiveness of the specifics of the EP is carried out in terms of the availability of components that shape the personal development of students, their creative abilities and special competencies. This criterion is implemented through the introduction of innovative learning technologies into the educational process and through the participation of students in regional and international scientific conferences.

Development of interactive teaching methods with the use of multimedia equipment is relevant in the teaching and methodological activities of teaching staff in the EP of the



specialty "Standardization and Certification". Presentation of training courses with the use of interactive whiteboards, multimedia projectors, etc. is practiced. The introduction of new learning systems has led to a change in the methodological approaches to the organization of classroom and extracurricular classes. The forms of conducting lectures with the use of a complex of modern teaching aids are being improved, which makes it possible to increase the intensity of the presentation of the material and to increase the activity of students.

The department maintains relationships with other universities and research centers.

From the analysis of the evaluation criteria of the standard "Teaching staff" on the EP specialty "Standardization and Certification", it was revealed that the teaching staff of the specialty is constantly working to improve the educational and methodological support of the educational process in the basic and major disciplines. Work is being done on the invitation of leading teachers from other universities and foreign teachers, the exchange of experience has allowed to solve professional problems in the preparation of modern, competitive specialists, identified priority areas in research and research activities.

For successful employment of graduates of the specialty "Standardization and Certification", the EP's management provides conditions for successful practical training by teachers in both methodological support and moral support, and as a result, after completing the internship, many students and undergraduates have already found jobs for these enterprises. After completing the practice, 40% of graduate students are employed under the specialty "Standardization and Certification". At the present time, the monitoring of employment has shown that the demand for specialists in this EP increases in demand on the labor market from year to year, this is primarily related to the development of modern methods of market relations between economic entities. And university graduates in this training trajectory have a huge competitive advantage compared to other universities.

Besides, the employment of graduates of the EP is also provided during the annual job fair held directly by the KATU them. S.Seifullin, where the percentage of employment reaches 50%.

In general, the reviewed standard for the specialty "Standardization and Certification" specialty showed that the activity of the department in accordance with the criteria for accreditation of the specialty has the following positive indicators:

the university has a clearly formulated and clear mission, implemented in accordance with national and regional priorities, clearly defining the purpose and strategy of its development;

mission, goals and objectives are carried out within the framework of certain development priorities, for which appropriate financial, human and material resources are allocated to ensure implementation in the changing external socio-economic environment;

- high demand for university graduates;
- the possibility of training specialists in state grants;
- high-quality provision of educational services;
- a favorable psychological atmosphere in the team and relationships with undergraduates and doctoral students;
- experience of innovation;
- the introduction of credit technology training and its improvement;
- introduction into the educational process of the automated system "Plato";
- the presence of an internal system of quality control of education, a system of current, intermediate and final control of knowledge, rating assessment of the professional level of teaching staff, a survey of employers;
- availability of material and technical base (specialized laboratories, classrooms and interactive classrooms, literature, computer classrooms) with the relevant qualification requirements for all specialties being prepared at the university.

Recommendations of the external expert commission of the Independent Agency for Accreditation and Rating for educational programs 5B073200 - Standardization and Certification, 6M073200 - Standardization and Certification

According to the standard "Management of the educational program": To analyze and improve the plans for the development of educational programs for compliance with the current strategies for the development of universities and faculties

In connection with the change in qualification requirements with the participation of representatives of employers, an adjustment was made to the development plan of EP Standardization and Certification (Annex 10 - Protocol No. 12 of April 26, 2017), and recommendations were made by members of the Academic Affairs Committee.

According to the standard "Management of the educational program": To conduct a risk assessment of the development of educational programs

The participation of employers in the formation of the educational program, the traneeship of work experience by students, the employment of graduates of EP is an important factor in the successful implementation of EP. At the same time, there may be a situation of unwillingness of employers to cooperate, which requires the department to use all the levers of influence on employers through the basic program documents of the

government of the Republic of Kazakhstan on industrial and innovative development of the Republic of Kazakhstan, increasing the attractiveness of the department's potential.

At the Department of Standardization, Metrology and Certification, when analyzing possible risks, it was revealed that one of the risks is the lack of dual training, its implementation will increase the level of high-quality practical training of specialists.

In the 2015-2016 school year, for the first time, training was conducted according to the current class schedule in dual technology of training, in the disciplines "Metrological support of production", "Standardization" and "Metrology". To increase the level of practical training and consolidate the professional competence of students, from the 2015-2016 school year, dual training is conducted at enterprises and in specialized laboratories. The bases of the department for conducting dual training are the leading enterprises of the region: KazInMetr, KazInSt, NCA and Astana-Management LLP in the direction of the specialty.

An analysis of possible risks revealed a shortage of graduated personnel (PhD) in the field of standardization and product quality management. In this regard, in 2015, a license was received for the specialty 6D073200 - "Standardization and Certification" and the 2016-2017 account. year, the first set of doctoral students in this specialty was made (Appendix 11 - License for educational activities under 6D073200 - Standardization and Certification). At the moment, 8 doctoral students are trained in the specialty 6D073200 - "Standardization and Certification" (Appendix 12).

On November 30, 2016, on the occasion of the Day of Quality, an intrastate conference was held, where senior students of the EP took part (Appendix 13).

According to the standard "Specificity of the educational program": Strengthen the role of the teaching staff in the development and examination of MEP, supplement the developed model of the graduate of the EP "Standardization and Certification" for two levels of education (BA-MA), taking into account the national qualifications framework and the needs of key employers

When analyzing the structure and content of the MES undergraduate and graduate programs in the specialty Standardization and Certification, the views of faculty members, employers and market requirements were taken into account, which ensured the possibility of mastering the modules not only on the basis of one educational institution of vocational education, but also implement dual options for mastering educational programs on the basis of educational institutions of vocational education, having a different level of material and technical base, choosing to establish software the module that can be mastered

with the highest quality. For example, the discipline "Metrology" was held in KazInMetr, the discipline "Standardization" - in KazInSt.

Representatives of employers (Khamitov I.V., deputy general director KazInSt, Bulashev B.K., deputy general director of the KazNII processing of agricultural products, etc.), graduates (Tskhay EV, head of the center standardization KazInSt and others) and teachers of the department took part in the discussion of standardization and certification EP, where the needs of employers and the opinion of graduates and teachers were taken into account.

The employers offered the following disciplines for Bachelor's degree in "Management Engineering", for the Master's degree programs "Standardization and Certification of Organic Production", "Safety Systems for Raw Materials and Food Products of Livestock" and "Safety Systems for Raw Materials and Food Products of Crop Production" (Appendix 14).

According to the standard "Teaching staff and the effectiveness of teaching": To strengthen the work to attract the best foreign and domestic teachers in the framework of academic mobility The goal of the Program to attract foreign scientists to KATU is to deepen cooperation with leading scientific and educational centers and organizations of the world, to develop the lack of competence and promote KATU in the global scientific and educational space.

The department "Standardization, Metrology and Certification" developed a plan at the invitation of foreign scientists. According to the program "Attracting foreign scientists to universities of the Republic of Kazakhstan" for conducting classes two years in a row, classes for students and undergraduates of the specialty were held: from 3 to 29 November 2014, Professor, Dr. Barbara Kzhishtofik (Poland, Krakow), on : "Quality control in the agricultural and food safety management system of food products", "Storage of agricultural raw materials".

According to the standard "Students": To strengthen the work on the development of multilingual education at the undergraduate level, including creating conditions for students to choose the language of study of individual modules, regardless of the language of instruction, to consider the possibility of increasing the number of dual educational programs

According to the educational program 6M073200 - "Standardization and Certification" in this academic year, for the first time, training is conducted in three languages. To increase the level of practical training and consolidate the professional competence of students, from the 2015-2016 school year, dual training is conducted at

enterprises and in specialized laboratories. The bases of the dual training are the branches of the department at the leading enterprises in the field of standardization, metrology and certification KazInMetr, KazInSt, NCA and Astana Management LLC in the direction of the specialty.

According to the standard "Students": Organize methodical seminars for teaching staff involved in the implementation of EP

In order to study the advanced world and domestic pedagogical experience in the field of innovation, teaching staff of the department "Standardization, Metrology Certification", according to the approved schedule, visited schools of lecturers "Innovations in the educational process of higher education", listened to courses on the following topics: "Theoretical and methodological foundations of innovation in the educational process of the university ", " Interactive teaching methods in higher education ", " Methods of teaching in modern higher education ", " Advanced education in the educational system ", " Teo and the practice of informatization of the educational process of the university ".

In January 2018, the teachers of the department "Standardization, Metrology and Certification", namely Akisheva E.K. and Ibraeva ZH.T. courses of lecturers were attended. And also seminars were held by employers for teaching staff and students, masters and doctoral students on EP on the following topics:

- January 19, 2017 Candidate of Technical Sciences in the specialty 05.02.23 - "Standardization and Quality Management of Products (Services)", Expert in the areas of "Food Industry", "Construction", director of the conformity assessment firm Eleusizova AM, on subject: "Food safety";

- December 6, 2017, the leading expert of the RSE "KazInMetr" VS Milokumov, on the topic: "Ensuring the unity of measurement";

- December 8, 2017 Candidate of Agricultural Sciences, Associate Professor of KazNIIPSH LLP Bulashev B.K., on the topic: "Organic Production";

- December 12, 2017, the chief specialist of the department of strategic development and analysis of the Republican State Enterprise KazInSt, Zh.B. Ansova, on the topic: "Technical regulation and technical regulation".

According to the seminars, reports are available (Appendix 15).

According to the standard "Trainees": Ensure the awareness of the goals and objectives of the MEP to all interested parties (employers, teaching staff and students)

MEPs in the specialty "Standardization and Certification" are created on the basis of a request from employers, are developed and agreed with employers, are discussed at a meeting of the department with teaching staff, as a result of which students choose the

actual, sought-after learning path. A meeting with employers will be held at the end of the school year, with the aim of including disciplines in the MEP for the new academic year (Minutes of the meeting of the Department No. 4 of December 10, 2014).

In connection with changes in qualification requirements, the modular educational program for the specialty 5B073200 - "Standardization and Certification" along two paths ("Standardization and certification of agricultural products" and "Safety and quality management of agricultural products") was discussed and reviewed by representatives of employers and teachers of the department. All the interested persons (teaching staff, students, employers) are informed about the goals and objectives of the modular educational program for the specialty 5B073200 - "Standardization and Certification".

According to the standard "Students": Ensure the possibility of professional certification of students

The program of improving the quality of practical training of students in the specialty "Standardization and Certification" includes a point for passing a test of knowledge in expert organizations accredited by the Technical Regulation Committee of the Republic of Kazakhstan.

According to the working curriculum for the EP, students of the 2nd and 3rd courses in the specialty "Standardization and Metrology" annually undergo practical training at enterprises in the field of standardization, metrology and certification, with whom contracts were concluded between S. Seifullin KATU. Proven students at the end of the university are employed at the places of practice.

According to the standard "Students": Introduce training courses that form students' competencies aimed at employment and career development.

According to the EP "Standardization and Certification", all training programs were built flexibly, in the form of a set of modules, based on an analysis of the labor market and the need for certain skills, with the possibility of adding and adjusting as necessary; the main content of the programs was oriented towards the need of the labor market, the real work activity expressed in specific applications and the wishes of employers; teaching methods were primarily oriented towards practical activity of students, primarily within the framework of mastered competencies, the role of the teacher is to organize the learning process and provide ongoing support as the students perform practical work and tasks; assessment of learning outcomes consists in the development of certain competencies that ensure the performance of work on a given type of activity in accordance with the profession / specialty. If desired or necessary, an assessment can be carried out with the participation of external experts.

The catalog of elective disciplines of the educational program "Standardization and Certification" includes courses that form students' competencies aimed at employment and career development. Courses "Technical regulation in standardization", "Technology of development of standards and NTD", "Standardization and certification of consumer services", "Evaluation and examination of agricultural products." The objects of employment are such enterprises as: RGP "Kazakhstan Institute of Standardization and Certification", RSE "Kazakhstan Institute of Metrology", LLP "National Accreditation Center", JSC "National Center for Examination and Certification", "Committee for Technical Regulation and Metrology of the Ministry of Education and Science of the Republic of Kazakhstan and their branches The conformity assessment authorities and other testing laboratories (Appendix 8) .The catalog of elective disciplines of the educational program "Standardization and Certification" includes courses that form the competencies of students related to the employment and career development. Disciplines "Technical regulation in standardization", "Technology development of standards and technical documentation", "Standardization and certification of consumer services", "Assessment and examination of agricultural products."

The objects of employment are such enterprises as: RGP "Kazakhstan Institute of Standardization and Certification", RSE "Kazakhstan Institute of Metrology", LLP "National Accreditation Center", JSC "National Center for Examination and Certification", "Committee for Technical Regulation and Metrology of the Ministry of Education and Science of the Republic of Kazakhstan and their branches , Bodies for conformity assessment and other testing laboratories.

As already mentioned, according to the program on the widespread introduction and application of innovative technologies in the educational process for 2016-2020, teachers of the department "Standardization, Metrology and Certification" are conducting classes using innovative technologies (Appendix 8).

According to the standard "Resources available for educational programs": To improve the provision of the educational process with modern educational, scientific and regulatory literature, primarily in the Kazakh and English languages

The scientific library as of June 1, 2018 has a book fund of 1690349 copies, including one I teach. 153 units The number of readers is 8530, the total area is 1950 m<sup>2</sup>, the number of seats in the reading rooms is 560. 806308 copies. from 1690349 it is the fund of literature in the state language, 95169 - publications on electronic media, of which 2520 are publications of the teaching staff, 4582 electronic editions of scientific journals. Through the university's electronic library on the university's IP address range, access is

provided to remote information resources, advanced electronic libraries of the world, such as Thomson Reuters, Springerlink, CabiAbstract. To the Russian databases “Publishing House“ Lan ”,“ eLibrary.ru ”.

According to the standard "Resources available to educational programs": To strengthen the work on the introduction of innovative technologies into the educational process

During the implementation of the EP "Standardization and Certification" (by industry), the faculty team and the graduating department sets itself the task of inculcating students with the skills to independently obtain, analyze and effectively use the information obtained for maximum self-realization and active participation in society (competence). The department "Standardization, Metrology and Certification" constantly introduces and uses various forms of active presentation of educational material at lectures: problem lecture, lecture - visualization, dual lecture. Interactive and multimedia presentations at the lecture allow you to mobilize attention, the interest of students and stimulate their cognitive activity.

According to the program on the widespread introduction and application of innovative technologies in the educational process for 2016-2020, teachers of the department Standardization, Metrology and Certification are given classes on the use of innovative technologies.



### Conclusion of the self-assessment commission

№ n/n	№ n/n	Criteria for evaluation	Position Educational Organization			
			Strong	Satisfactory	Suggests improvement	unsatisfactory
<b>Standard "Educational Program Management"</b>						
1	1	The university must have a published quality assurance policy.	+			
2	2	Quality assurance policies should reflect the link between research, teaching and learning.	+			
3	3	The university must demonstrate the development of a culture of quality assurance, including in the context of the EP	+			
4	4	Commitment to quality assurance should relate to any activity performed by the contractor and partners (outsourcing), including in the implementation of joint / double-diploma education and academic mobility.		+		
5	5	The EP's management ensures the transparency of the development plan of the EP based on an analysis of its functioning, the actual positioning of the university, and the focus of its activities on meeting the needs of the state, employers, stakeholders and students.		+		
6	6	EP management demonstrates the functioning of the formation mechanisms and regular review of the EP development plan and monitoring its implementation, assessing the achievement of		+		

		learning objectives, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of EP				
7	7	EP management should involve teachers of groups of interested persons, including the employer, students and teaching staff in the development of EP development plans		+		
8	8	The EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with the national development priorities and development strategies of the organization of education.	+			
9	9	The university must demonstrate a clear definition of those responsible for business processes in the framework of the EP, the unambiguous distribution of staff duties, the separation of staff duties, the division of functions of collegial bodies.		+		
10	10	EP management must provide evidence of the transparency of the educational program management system.	+			
11	11	EP management must demonstrate the successful operation of the internal quality assurance system of the EP including the design, management and monitoring, their improvement, making decisions based on facts	+			
12	12	EP management should implement risk management		+		
13	13	EP management must ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on	+			

		the management of the educational program.				
14	14	University must demonstrate the management of innovations in the framework of the EP, including the analysis and implementation of innovative proposals	+			
15	15	EP management must demonstrate evidence of openness and accessibility for students, teaching staff, employers and other interested parties.	+			
16	16	The management of EP should be trained in educational management programs.		+		
17	17	The EP management must strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparing for the next procedure.	+			
Total standard			10	7		
<b>Information Management and Reporting Standard</b>						
18	1	The university should ensure the functioning of the system for collecting, analyzing and managing information through the use of modern information and communication technologies and software.	+			
19	2	The EP management must demonstrate a systematic use of the processed, adequate information to improve the internal quality assurance system.	+			
20	3	Within the EP there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the subdivision and departments working, and research.		+		
21	4	The university should establish the frequency, forms and methods for evaluating the management of EP, the activities of collegial bodies and structural divisions, senior	+			

		management, and the implementation of research projects.				
22	5	The university should demonstrate the definition of order and ensuring the protection of information, including the definition of responsible persons for accuracy and timeliness.	+			
23	6	An important factor is the involvement of students, employees and teaching staff in the process of collecting and analyzing information, as well as making decisions based on them.		+		
24	7	EP management must demonstrate the existence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms.	+			
25	8	EP management must demonstrate the existence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms.	+			
26	9	The university should evaluate the effectiveness and efficiency of activities, including in the context of the EP.		+		
		Information collected and analyzed by the university should take into account.				
27	10	the key performance indicators;		+		
28	11	the dynamics of the contingent of students in the context of forms and types;	+			
29	12	level of progress, student achievement and deductions;	+			
30	13	students' satisfaction with the implementation of the EP and the quality of education at the university.	+			
31	14	availability of educational resources and support systems for students;	+			

32	15	employment and career growth of graduates.	+			
33	16	Trainees, employees and teaching staff must document their consent to the processing of personal data.	+			
34	17	EP management should contribute to the provision of all necessary information in relevant areas of science.	+			
Total standard			13	4		
Standard "Development and approval of educational programs"						
35	1	The university should determine and document the procedures for the development of EP and their approval at the institutional level.		+		
36	2	The EP's management must ensure that the developed EPs comply with the established goals, including the expected learning outcomes.	+			
37	3	The management of EP must ensure the availability of developed models of graduate EP, describing learning outcomes and personal qualities.		+		
38	4	The management of the EP must demonstrate the conduct of external examinations of the EP.	+			
39	5	Qualifications obtained at the end of the EP must be clearly defined, explained and correspond to a certain level of the NSC.		+		
40	6	Guide Op should determine the impact of disciplines and professional practices on the formation of learning outcomes.	+			
41	7	An important factor is the possibility of preparing students for professional certification.		+		
42	8	EP management must provide evidence of the participation of students, teaching staff and other stakeholders in the development of EP, ensuring their quality.		+		
43	9	The complexity of the EP should be clearly	+			

		defined in Kazakhstan loans and ECTS.				
44	10	The management of EP should provide the content of academic disciplines and learning outcomes to the level of education (bachelor, master, doctoral).	+			
45	11	The structure of the EP should provide for various activities corresponding to the result of training.	+			
46	12	An important factor is the presence of joint EPs with foreign educational organizations.		+		
Total standard			6	6		
Standard "Continuous monitoring and periodic evaluation of educational programs"						
47	1	The university should monitor and periodically evaluate the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.		+		
		Monitoring and periodic evaluation of the EP should be considered.				
48	2	The content of programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline being taught.		+		
49	3	Changes in the needs of society and the professional environment.		+		
50	4	Loads, performance and graduation of students.	+			
51	5	The effectiveness of assessment procedures for students.		+		
52	6	Expectations, needs and satisfaction of students with EP training		+		
53	7	Educational environment and support services and their compliance with the objectives of the EP	+			

54	8	The university and the administration of EP must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.	+			
55	9	All interested parties should be informed of any actions planned or taken in relation to the EP. All changes made to the EP should be published.	+			
56	10	The EP management must ensure a review of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.		+		
Total standard			4	6		
Standard "Student-centered learning, teaching and assessment of progress"						
57	1	EP management must ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.		+		
58	2	EP management must ensure the use of various forms and methods of teaching and learning.		+		
59	3	An important factor is the availability of own research in the field of teaching methods of academic disciplines		+		
60	4	EP management must demonstrate the presence of a feedback system on the use of various teaching methods and evaluation of learning outcomes.		+		
61	5	The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.		+		
62	6	The management of EP must demonstrate the existence of a procedure for responding to	+			

		students' complaints.				
63	7	The management of EP must demonstrate the existence of a procedure for responding to students' complaints.	+			
64	8	The university must ensure that the procedures for evaluating the results of teaching students of the EP correspond to the planned learning outcomes and objectives of the program. Criteria and assessment methods in the framework of the EP should be published in advance.		+		
65	9	In a higher education institution, mechanisms should be defined to ensure that each graduate of the EP master the learning outcomes and ensure the completeness of their formation.	+			
66	10	Assessors should possess modern methods of assessing learning outcomes and regularly improve their skills in this area.		+		
Total standard			3	7		
Standard "Students"						
67	1	The university should demonstrate the policy of forming a contingent of students from admission to graduation and ensure the transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.	+			
68	2	The EP's management must demonstrate the implementation of special adaptation and support programs for new-comers and foreign students.	+			
69	3	The university must demonstrate the compliance of its actions with the Lisbon Recognition Convention.	+			
70	4	The university should cooperate with other educational organizations and national centers of the European Network of National Information	+			



		Centers for Academic Recognition and Mobility / National Academic Information Recognition Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.				
71	5	EP management must demonstrate the presence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal education.		+		
72	6	The university should provide an opportunity for external and internal mobility of students of EP, as well as assist them in obtaining external grants for training.		+		
73	7	The management of EP should make the maximum amount of effort to provide students with places of practice, to promote the employment of graduates, to maintain communication with them.	+			
74	8	The university must provide graduates of EP with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.	+			
75	9	An important factor is the monitoring of employment and professional activities of graduates of EP.	+			
76	10	EP management should actively encourage students to self-education and development outside the main program (extracurricular activities)	+			
77	11	An important factor is the existence of a valid alumni association / association.	+			
78	12	Важным фактором является наличие		+		

		механизма поддержки одаренных обучающихся.				
Total standard			9	3		
Standard "Teaching staff"						
79	1	The university should have an objective and transparent personnel policy, including recruitment, professional growth and staff development, ensuring the professional competence of the entire staff.	+			
80	2	The university should demonstrate the compliance of the staff potential of the faculty with the development strategy of the university and the specifics of the EP.		+		
81	3	EP management must demonstrate awareness of responsibility for their employees and ensure favorable working conditions for them.		+		
82	4	The management of EP should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning		+		
83	5	Вуз должен определить вклад ППС ОП в реализацию стратегии развития вуза, и др. стратегических документов.	+			
84	6	The university should provide opportunities for career growth and professional development of teaching staff of the OP.	+			
85	7	The management of EP should involve practitioners from relevant fields in the teaching.	+			
86	8	The management of EP should provide corrected actions for the development of young teachers.	+			
87	9	The university should demonstrate the motivation of professional and personal development of teachers of EP, including the promotion of both the integration of science and education, and the use of innovative teaching	+			

		methods.				
88	10	An important factor is the active use of information and communication technologies faculty in the educational process (for example, on-line training, e-portfolio, MEP, etc.)		+		
89	11	An important factor is the development of academic mobility in the framework of the EP. Attracting the best foreign and domestic teachers.		+		
90	12	An important factor is the involvement of teaching staff in the community life (the role of teaching staff in the education system, in the development of science, the region, creation and cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).	+			
Total standard			7	5		
Standard "Educational resources and student support systems"						
91	1	EP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2	EP management must demonstrate the availability of procedures to support various groups of students, including information and consultancy	+			
		EP management must demonstrate the compliance of information resources with the specifics of the EP, including compliance with:				
93	3	technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
94	4	library resources, including the fund of educational, methodical and scientific literature on general educational, basic and major disciplines on paper and electronic media,	+			

		periodicals, access to scientific databases;				
95	5	examination of the results of SRW, final works, dissertations on plagiarism;	+			
96	6	examination of the results of SRW, final works, dissertations on plagiarism;	+			
97	7	the functioning of Wi-Fi on the territory of the educational organization.	+			
98	8	The university should strive to ensure that the educational equipment and software used for the development of EP, were similar to those used in their respective industries.		+		
99	9	The university must ensure compliance with safety requirements in the learning process.	+			
100	10	The university should strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, and students with disabilities).		+		
<b>Total standard</b>			<b>6</b>	<b>4</b>		
<b>Standard "Public Information"</b>						
		The information published by the university in the framework of the EP should be accurate, objective, relevant and should include:				
101	1	implemented programs, indicating the expected learning outcomes;	+			
102	2	information about the possibility of assigning qualifications at the end of the EP;	+			
103	3	information about teaching, learning, assessment procedures;	+			
104	4	information about the scores and training opportunities provided by students;	+			
105	5	information about graduate employment opportunities;	+			
106	6	EP management should use a variety of ways to disseminate information (including media, web	+			

		resources, information networks, etc.) to inform the general public and stakeholders.				
107	7	Public awareness should include support and explanation of national development programs of the country and the system of higher and postgraduate education.		+		
108	8	The university must publish audited financial report on its own web resource.	+			
109	9	The university must demonstrate the information on the web resource that characterizes the university as a whole and in the context of the EP.	+			
110	10	An important factor is the availability of adequate in objective information about the teaching staff of the EP, in the context of personalities.	+			
111	11	An important factor is informing the public about cooperation and collaboration with partners in the framework of EP, including with scientific / consulting organizations, business partners, social partners and educational organizations.	+			
112	12	The university should post information and links to external resources on the results of external assessment procedures.	+			
113	13	An important factor is the participation of the university and implemented EP in a variety of external assessment procedures.	+			
<b>Total standard</b>			<b>12</b>	<b>1</b>		
<b>Standards in the context of individual specialties</b>						
<b>TECHNICAL SCIENCES AND TECHNOLOGIES</b>						
		Educational programs in the areas of "Technical Sciences and Technology" must meet the following requirements:				

114	1	<p>In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills based on theoretical training, the education program should include disciplines and activities aimed at obtaining disciplines and activities aimed at gaining practical experience and skills in the specialty in general and major subjects in particular, including:</p> <ul style="list-style-type: none"> <li>- excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational and experimental farms, etc.),</li> <li>- carrying out separate classes or the whole disciplines at the enterprise of specialization,</li> <li>- holding seminars to solve practical problems relevant to enterprises in the field of specialization, etc.</li> </ul>		+		
115	2	The faculty involved in the education program should include full-time teachers with long-term experience as a staff member in enterprises in the field of specialization of the education program.		+		
116	3	The content of all disciplines of the OP should be based in one way or another and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.				
117	4	The EP's management should provide measures to enhance practical training in the field of specialization.	+			
118	5	The management of EP should provide training for students in the application of modern information technologies.		+		
<b>Total standard</b>			<b>1</b>	<b>3</b>		

<b>Total in general</b>	<b>71</b>	<b>46</b>		
<b>Total</b>				

The working group on self-assessment of EP in the specialty 5B073200 - Standardization and Certification, 6M073200 - Standardization and Certification, 6D073200 - Standardization and Certification recommends the Academic Council of the Kazakh Agrotechnical University. S.Seifullin "to include in the list of educational programs submitted to the Independent Agency for Accreditation and Ratings, as meeting the requirements of specialized accreditation standards.