

«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING

# REPORT

on the results of the work of an external expert commission on assessment for compliance with the requirements of specialized accreditation standards of the Educational Programs

Cluster 1

Specialty: 1109000 Lathe practice and metal working Qualifications: 110910 2 Machine tool operator, 110913 2 Machining controller Specialty: 1112000 Operation of machinery and industry equipment Qualifications: 111202 2 Assembly works mechanic, 111203 2 Maintenance technician Specialty: 1115000 Electromechanical equipment in industry Qualifications: 111504 2 Electrician for repair and maintenance of electrical equipment 111502 2 Automatic and semi-automated machines setup man Specialty: 1201000 Maintenance, repair and operation of road transport Qualifications: 120107 2 Automobile repairman 120106 2 Electrician on automotive electrical equipment repair

SCE "PETROPAVLOVSK MECHANICAL ENGINEERING COLLEGE"

from «10» to «12» 06.2019

#### Independent agency for accreditation and rating External Expert Commission

Addressed to Accreditation board of IAAR

#### IAAR Independent agency for accreditation and rating

A report

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#### SCE "PETROPAVLOVSK MECHANICAL ENGINEERING COLLEGE"

from «10» to «12» 06.2019 (date of in-person visit)

> «12» June 2019 (date of last day of visit)

Petropavl (city)

#### (I) LIST OF DESIGNATIONS AND ABBREVIATIONS

PMEC - Petropavlovsk Mechanical Engineering College

SCE - State Communal Enterprise

ICT - Information and Communication Technologies

EP - Educational Program

RK – Republic of Kazakhstan

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

SCES - State Compulsory Educational Standard

QMS - Quality Management System

TVE - Technical and Vocational Education

CMC - Cyclic Methodological Commission

MTB - material and technical base

SC - sample curriculum

WC - work curriculum

STP - sample training program

WTP - work training program

LTP - long-term thematic plan

TMC - training and methodology complex

PT - production training

PP - professional practice

FA - final assessment

IA - intermediate assessment

MPC - military patriotic circle

#### (I) INTRODUCTION (1-2 pages)

According to the order 77-19-OD dated on 20.05.2019 Independent agency for accreditation and rating at State Communal Enterprise "Petropavlovsk Mechanical Engineering College" external expert commission carried out assessment for compliance of activity and realization of educational programs with institutional accreditation standards of IAAR from June, 10<sup>th</sup> till 12<sup>th,</sup> 2019.

A report of an external expert commission (hereinafter EEC) includes an assessment of accordance of college activity to the IAAR standards' criteria, EEC recommendations on the further improvement of college activity and activity profile parameters of SCE "Petropavlovsk Mechanical Engineering College".

#### **Composition of EEC:**

**Chairman of the Commission** - Bakirov Rustembek Tokhtaganovich, Deputy Director for Training and Production work of CSOE "Kaskelen Vocational and Technical College named after Sanjar Zhandosov" (Almaty region);

**Foreign expert -** Sidorenko Inna Vladimirovna, Deputy Director for Academic Work of Budgetary Professional Educational Institution of the Omsk Region "Omsk Motor Transport College" (Omsk, the Russian Federation);

**Expert** – Bulat Sergey Nikolaevich, Deputy Director for Training and Production work of CSOE "Kostanay College of automobile transport" (Kostanay);

**Expert** - Tugerova Galiya Berdibaevna, Deputy Director for Educational and Methodical work of the Multidisciplinary College of the Caspian State University of Technology and Engineering named after Sh. Yesenov (Aktau);

Agency observer: Bekenova Dinara Kairbekovna, IAAR Project Manager for Accreditation of Organizations of TVE (Nur-Sultan);

**Employer** - Anatskiy Ivan Anatolyevich, Foreman JV LLP "Petropavlovsk Tractor Plant" (Petropavlovsk);

**Student** - Shishkanov Anton Vladimirovich, 3-year student of the specialty 1201000 "Maintenance, operation and repair of road transport" of the Petropavlovsk Humanitarian Technical College (Petropavlovsk).

#### (II) **REPRESENTATION OF EDUCATIONAL INSTITUTION (1-3 pages)**

State Communal Enterprise "Petropavlovsk Mechanical Engineering College" of Education Department of Akimat of the North Kazakhstan Region (further – College) is a non-profit organization, possessing a status of a legal entity, created to meet the needs of youth in vocational education, professional training of qualified workers. The activity of the Institution is carried out on the basis of the Charter and in accordance with the Constitution of the Republic of Kazakhstan, the Laws of the Republic of Kazakhstan "On Education", "On the Rights of the Child", "On Languages in the Republic of Kazakhstan" and other regulatory legal acts of the Republic of Kazakhstan.

- certificate of state re-registration of a legal entity Series B № 0670179 dated on September 10<sup>th</sup>, 2012 (registration number 560-1948-01-GU);

- BIN (Business Identification Number) 030440001641, issued on September, 10<sup>th</sup> 2012 (initial registration April, 30<sup>th</sup> 2003);

- Charter of SCE "Petropavlovsk Mechanical Engineering College" registration number № 228 dated on August, 24<sup>th</sup> 2012 (Appendix 1);

- state license to engage in educational activities  $\mathbb{N}$  12019460 dated on October 18<sup>th</sup>, 2012 and an appendix to the license  $\mathbb{N}$  001-005 for technical and vocational education in the following specialties and qualifications (Appendix 2):

The college was founded in 2003 as the State Institution "Professional School at the Petropavlovsk College of Railway Transport". Base of decision: Resolution of the Akimat of North Kazakhstan region dated on February 4<sup>th</sup>, 2003 №33, Department of Education Order №128 dated on 10.02.2003.

In 2006 – State Institution "Professional School at the Petropavlovsk College of Railway Transport" was renamed into State Institution "Petropavlovsk Professional School No2". ". Base of decision: Resolution of the Akimat of North Kazakhstan region dated on December 20<sup>th</sup>, 2006 No310.

In 2008 - State Institution "Petropavlovsk Professional School №2" was renamed into State institution "Petropavlovsk Professional Lyceum No. 2" of the Akimat of the North Kazakhstan Region on the basis of "On the change of names of some state institutions of vocational education" dated on January, 9<sup>th</sup>, 2009 №4.

In 2012 - State Institution "Petropavlovsk Professional Lyceum No. 2" of the Akimat of the North Kazakhstan Region was renamed into State Communal Enterprise "Petropavlovsk Mechanical Engineering College" of the Akimat of the North Kazakhstan Region.

The training of qualified workers at college is carried out in the following specialties:

Table 1 - The list of specialties and qualifications of the college with the duration of study

Cipher	Name of specialty and qualification	Duration of study
1109000	Lathe practice and metal working	
110901 2	Lathe operator	2 years 10 months, 10 months.
110906 2	Milling machine operator	2 years 10 months, 10 months, 6
		months.
110910 2	Machine tool operator	2 years 10 months, 10 months.

110913 2	Machining controller	2 years 10 months
1012000	Flexible automatic lines	
101203 2	Operator of machine units with program control	1 year 10 months, 2 years 10 months.
1112000	Operation of machinery and industry equipment	
111201 2	Toolmaker	2 years 10 months, 10 months.
111202 2	Assembly works mechanic	2 years 10 months, 10 months.
111203 2	Maintenance technician	2 years 10 months, 10 months.
1114000	Welding	
111404 2	Electrical/gas welder	10 months, 2 years 10 months.
1115000	Electromechanical equipment in industry	
111502.2	Automatic and semi-automated machines setup man	2 years 10 months., 1 year 10 months.
111504 2	Electrician for repair and maintenance of electrical equipment	2 years 10 months., 1 year 10 months.
1201000	Maintenance, repair and operation of road transport	
120106 2	Electrician on automotive electrical equipment repair	3 months, 2 years 10 months, 10 months.
120107 2	Automobile repairman	2 years 10 months, 10 months.

Form of ownership: state

Legal address of the college: 150013, Petropavlovsk, Student st., 1, tel. (fax) 87152-37-21-48, e-mail: <u>mk-sko@mail.ru</u>

The main sources of information about the activities of the college are: the official website <u>http://mkp.sqo.kz/</u>

Currently, the training of qualified workers is carried out in a dual form with a training period of 2 years 10 months with the assignment of two qualifications in the following specialties:

> Lathe practice and metal working (qualifications: Machine tool operator and Machining controller)

> Operation of machinery and industry equipment (qualifications: Assembly works mechanic and Maintenance technician)

> Electromechanical equipment in industry (qualifications: Automatic and semiautomated machines setup man and Electrician for repair and maintenance of electrical equipment)

Maintenance, repair and operation of road transport (qualifications: Electrician on automotive electrical equipment repair and Automobile repairman).

Coursework with terms of 1 and 3 months is conducted according to the following qualifications: Lathe operator, Operator of machine tools with program control, Electrician on automotive electrical equipment repair, Automobile repairman.

The contingent of students for the 2018-2019 academic years is 288 students. All students study full-time by state educational order.

For the organization of professional practice, agreements were concluded with 17 social partners (Appendix 3): JSC "Petropavlovsk Heavy Engineering Plant" (a large enterprise manufacturing equipment for oil and gas, oil and gas refining, petrochemical, chemical, gas, energy and other industries), JSC "Kazneftegazmash" (a large enterprise producing wellhead oilfield equipment and valves, counter flanges and fasteners), JSC "MUNAYMASH" (a large enterprise engaged in the production of oil and gas equipment), JSC "ZIKSTO" (a large enterprise engaged in the manufacture of products and spare parts for the needs of the railway), LLP "Raduga" (a large enterprise producing food and plastic and metal products), LLP "VF Poisk" (a medium enterprise producing spare parts for pumps, drilling rigs and swivels), LLP "AVAGRO" (a medium-sized enterprise manufacturing and upgrading sprayers for agriculture), LLP "Remplazma" (a small enterprise manufacturing spare parts for electric motors and turbogenerators), LLP "Foundation" (a medium-sized enterprise engaged in the construction of buildings and structures), LLP "Prometheus" (a small enterprise engaged in the production of spare parts for agricultural machinery), LLP "SK-Tora" (a small enterprise performing automobile service services), LLP "ZMO" (medium-sized enterprise engaged in the production of drilling rigs, spare parts and auxiliary equipment), LLP "ServiceEnergo" (a small enterprise performing repair and maintenance of electric motors, generators and transformers), LLP 'Service Station Jeep" (a small enterprise providing automobile service services), LLP "ASTEK-AUTO" (a small enterprise providing automobile service services), Branch of "Esil su" RSE on REM (the main activity of the enterprise is the construction of pipelines for water supply and sewage systems), LLP "Zhigalova Karaguginskaya" (a small agricultural enterprise).

There are 23 teachers and 17 masters of vocational training are involved into the educational process of Engineering College. The percentage of teachers and masters of vocational training with higher and first categories and post-graduate masters is 45% (as of October 1<sup>st</sup>, 2018).

In order to improve the quality of education, the Engineering College collaborates with educational institutions (Appendix 4): RSE at REM "North Kazakhstan State University named after M. Kozybaev", State budgetary vocational educational institution "Shadrinsky Polytechnic College", The municipal State treasury enterprise "North Kazakhstan Professional and Pedagogical College".

For the training of specialists there is a material and technical base: 15 classrooms, 5 laboratories and 5 training workshops, 1 training ground, assembly hall. College Computer Park includes 82 units. 1 computer class with 15 computers and 3 mobile offices with monoblocks are used in the educational process. All computers are connected by a local network, which allows having classes using information and network technologies. College students and teachers are provided with Internet access via a local network and wireless Wi-Fi technology.

There are 2 gyms, a sport ground and a hockey ground for doing sports. The college has a library with a fund of 8781 books.

A positive aspect of the college's activities is the cooperation with potential employers, revealing their opinions on the quality of educational services provided; the presence of student practice bases.

#### (III) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

#### (only in case of reaccreditation)

The basis of previous accreditation (the IAAR order on the EEC, the IAAR Standards, according to which an external assessment is carried out (order number, date and publication)), the composition of the EEC, the recommendations of the EEC, the decision of the AC.

Analysis of the current state of the EO and / or the EP on the implementation of the recommendations of the previous EEC (This information should be deleted before sending to the educational organization to coordinate the actual inaccuracies and before publishing the report on the site).

SCE "Petropavlovsk Mechanical Engineering College" of Akimat of the North Kazakhstan Region is undergoing the procedure of institutional accreditation of TVE organizations for the first time.

#### (IV) EEC VISIT DESCRIPTION (1-2 pages)

The visit of the EEC to the SCE "Petropavlovsk Mechanical Engineering College" of the Akimat of the North Kazakhstan Region was organized in accordance with a program agreed in advance with the head of the college and approved by the director of the Independent Accreditation and Rating Agency, for the period of June 10-12<sup>th</sup>, of the year 2019.

In order to coordinate the work of the EEC in the college, an assembly meeting was held, during which the powers were distributed among the members of the commission, the schedule of the visit was clarified, agreement on the choice of examination methods was reached.

The meetings of the EEC with the target groups were held in accordance with the updated program of the visit, in compliance with the established time period. The staff of SCE "Petropavlovsk Mechanical Engineering College" ensured the presence of all the persons indicated in the program of the visit.

To obtain objective information about the quality of educational programs and the entire infrastructure of the college, to clarify the content of self-assessment reports the following meetings were held: with director, Deputy Director for Training and Production work, Deputy Director for Academic Work, Deputy Director for Educational work, head of the personnel department, chief accountant, head of the library, chairpersons of the Subject Cyclic Commissions, social teacher, psychologist, teacher-organizer, masters of vocational training, students, graduates, employers, social partners and parents of students. In total, 152 people took part in the meetings.

Category of the participants	Quantity
Director	1
Deputy Director	3
Chief accountant	1
Head of the personnel department	1
Chairpersons of the Subject Cyclic Commissions	3
Teachers and masters of vocational training	17
Social teacher	1

Table 2 - Information on participants of meetings with the EEC

Psychologist	1
Teacher-organizer of the initial military training	1
Teacher-organizer	1
Head of the library	1
Students	33
Graduates	37
Employers, Social partners	14
Parents of students	37
Total	152

During the work of the EEC, a visual inspection of the college infrastructure was conducted: classrooms, laboratories, production workshops, computer classes, a library, a reading room, a gym, a training ground, food outlets, and others.

Also it was studied the documentation of cycles, departments that implement accredited educational programs.

EEC experts visited the practice bases of SCE "Petropavlovsk Mechanical Engineering College", including accredited programs: JSC "Petropavlovsk Heavy Engineering Plant" (a large enterprise manufacturing equipment for oil and gas, oil and gas refining, petrochemical, chemical, gas, energy and other industries), JSC "Kazneftegazmash" (a large enterprise producing wellhead oilfield equipment and valves, counter flanges and fasteners), JSC "MUNAYMASH" (a large enterprise engaged in the production of oil and gas equipment), JSC "ZIKSTO" (a large enterprise engaged in the manufacture of products and spare parts for the needs of the railway), LLP "Raduga" (a large enterprise producing spare parts for pumps, drilling rigs and swivels), LLP "AVAGRO" (a medium-sized enterprise engaged in the production of spare parts for agricultural machinery), LLP "SK-Tora" (a small enterprise performing automobile service services), LLP "ZMO" (medium-sized enterprise engaged in the production of drilling rigs, spare parts and auxiliary equipment), LLP "Petromashzavod", Individual Entrepreneur "MTK Pukhovskaya S.N.", LLP "ViVaGa-Lada".

The experts got acquainted with the material and technical base of enterprises, visited classrooms, a training ground, a base for disassembling and assembling substations, in which students undergo training and professional practice.

The following representatives met with EEC experts – a representative of LLP "Petromashzavod" Deputy Director Ispaniyarov O.K., a representative of JSC "Petropavlovsk Heavy Engineering Plant" Leading Specialist of the Mechanical Repair Service Guwain D.N., a representative of LLP "Raduga" Technical Director Lee E.V., a representative of LLP "VF Poisk" Leading Process Engineer Abramenko M.S., a representative of LLP "ZMO" Leading Design Engineer Omarov M.Sh., a representative of LLP "AVAGRO" chief engineer Kuzmin E.V., a representative of JSC "MUNAYMASH" chief Technologist Medvedev D.V., a representative of Individual Entrepreneur "MTK Pukhovskaya S.N." Director Pukhovskiy S.N., a representative of LLP "ViVaGa-Lada" Director Kurskov N.N. They told about the

requirements for trainee practitioners, the process of professional practice, the requirements for conducting practice and other aspects of interaction with SCE "Petropavlovsk Mechanical Engineering College".

During a visit to the base of practice of the LLP "Raduga", 2nd year students, consisting of 5 people, underwent practical training in this organization under the supervision of the superintendent, Sergey Alekseevich Son and Adilbek Sartayevich Raimkulov, a master of vocational training from the college, according to the academic schedule.

LLP "Raduga" is a large enterprise producing food and plastic and metal products. The specialists of this organization teach students how to work in their future profession and pay great attention to labor education. It is noteworthy that while having practice, students receive a salary of 50-60 thousand tenge, some of the students stay at work during summer holidays.

It was visited the base of practice of the specialty 111203 2 - " Maintenance technician".

While visiting LLP "Petromashzavod", a large enterprise producing wellhead oilfield equipment and valves, counterflanges and fasteners, Deputy Director, Osarbek Kashkymovich Ispandiyarov, noted that the theoretical and practical knowledge obtained at the college helps students in practical activities. He also acquainted the EEC with the material and technical base of the organization, provided accompanying documents on the practice.

There were presented the graduates of past years working in LLP "Petromashzavod". Yevgeny Kargapolov, a graduate of 2018 in specialty "Machine tool operator", after the practice was hired as a locksmith of the 3rd category. At the moment, he continued his studies at the Omsk State Technical University on a specialty of "Mechanical Engineering".

When visiting JSC "Petropavlovsk Heavy Engineering Plant", a 2015 graduate of specialty "Maintenance technician" A. Bekturov expressed his gratitude to the college for organizing the 3rd year professional practice.

When visiting the enterprise JSC "MUNAYMASH", a 2-year student D. Raschyupkin and a 3-year student V. A. Lukin of specialty 1115000 – "Electromechanical equipment in industry" passed the practice. Students were satisfied with the conditions of practice, expressed gratitude to the college teachers - Schukin V.L. and Maslov A.V. for good theoretical training and practical skills.

Also, members of the EEC received confirmation from employers that enterprises not only provide jobs for the period of production practice, but also participate in adjusting the content of educational work plans and programs. The management of enterprises provides qualified employees to participate in the qualification commission of the final qualification exams. College staff undergo internships at enterprises.

EEC members attended classes on accredited educational programs. It was attended a laboratory-practical lesson in group A 11 of specialty 120106 - "Electrician on automotive electrical equipment repair", on the topic "Balancing and tire fitting of car wheels". This practice was conducted by a teacher of the first category, Andrei Vladimirovich Orlenko, 11 students from 11 attended the lesson. The workshop is equipped with a partial material and technical base for this qualification. The topic of the lesson fully agreed with the thematic plan and a work program. Students carried out a practical task according to the technological map of the lesson.

It was attended a practical lesson in technical drawing on the topic "Threaded connections" in the specialty 111203 2 - " Maintenance technician ". The lesson was conducted by a teacher without a category Nurgaliyev Asan Dulatovich, 11 students from 12 attended the lesson. The cabinet is equipped with computers and multimedia equipment (projector, screen, speakers). Lesson number 30 (according to the technological map) is considered by the teacher as a test session. Among the methods and techniques for conducting the lesson were used: testing students for knowledge of the theory on the subject "Technical Drawing" with a list of questions with a choice of an answer, calculation according to the options for the parameters of the threaded connection (bolt, washer, and nut), drawing a standardized product according to the

calculated parameters. The teacher conducted the results of the lesson using interactive technologies and a method of constructing the "Tree of Success". In general, the goal of the lesson was achieved, the use of a variety of methods and techniques of pedagogical activity of the teacher allowed him to test students' knowledge of the subject.

EEC members attended a laboratory lesson in the group EM-18 of specialty 1115000 – "Electromechanical equipment in industry". Teacher V. Shchukin conducted a laboratory lesson in the discipline "Installation of electrical equipment" on the topic "Installation of an electrical panel. One-line diagram of a 2-room apartment". There is 25 students in the group. The lesson was held for the first subgroup of 12 students. The long-term thematic plan corresponded to the working curriculum, a detailed lesson plan was available. A technological map and methodical recommendations for the implementation of the laboratory work were used at the lesson. Interdisciplinary communications with physics were traced. It was conducted a frontal student survey.

The teacher identified the objectives of the lesson and announced the topic. He explained the material and the task for self-fulfillment competently and informatively. The steps of the lesson are kept up. Special terms, additional information, examples from practice and everyday life were used a lot. The teacher created problem situations in the lesson so that students could make analysis and draw conclusions. Students completed assignments on time, defended reports on their works. The teacher gave marks to all students, summed up the lesson.

In general, the analysis of attended classes indicates a good quality teaching staff, a sufficient theoretical and practical level of training, but nevertheless, improvement is required in some situations.

Educational programs comply with the license and qualification requirements. The norms prescribed by law and described in the college self-report are confirmed during the visit of the EEC. The content of educational programs and educational technologies comply with the standards, adapted to the needs of the population and employers, and are periodically updated in accordance with changing conditions.

All conditions were created for the work of the EEC, access to all necessary information resources was organized.

Within the framework of the planned program, the primary key recommendations for improving college activities developed by the EEC based on the results of the examination were presented at a meeting with the college management. The following procedures were explained to the college management at the final meeting.

The activities, planned during the visit, allowed the members of the EEC IAAR to conduct an independent assessment of the compliance of the data, presented in the college self-assessment reports, with the criteria for specialized accreditation standards.

A detailed analysis of the conformity of the activity of SCE "Petropavlovsk Mechanical Engineering College" with the Standards of institutional accreditation of the IAAR allowed the EEC, within the framework of the college visiting program, to draw the following conclusions in terms of standards.

#### (II) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

#### 6.1. Standard "Management of Educational Program"

To determine the niche for the college in the market of educational services and the region's industry needs for personnel, the college periodically monitors the need for personnel by compiling enterprises with forecasting applications for qualified workers, together with enterprises social partners of the city (Appendix 5). According to the official Internet resource of the North Kazakhstan region, there are more than 50 industrial enterprises operate in the city of Petropavlovsk, many of which, according to the monitoring data, require the following working professions: turner, milling machine operator, grinder, operator of CNC machines, repairman, electrician, and car mechanic and auto electrician. The monitoring results are used when filling out an application for a state educational order.

Educational programs of accredited specialty programs: Specialty: 1109000 Lathe practice and metal working with Qualifications: 110910 2 Machine tool operator and 110913 2 Machining controller; Specialty: 1112000 Operation of machinery and industry equipment with Qualifications: 111202 2 Assembly works mechanic and 111203 2 Maintenance technician; Specialty: 1115000 Electromechanical equipment in industry with Qualifications: 111504 2 Electrician for repair and maintenance of electrical equipment and 111502 2 Automatic Maintenance, repair and semi-automated machines setup man; Specialty: 1201000 and operation of road transport with Qualifications: 120107 2 Automobile repairman and 120106 2 Electrician on automotive electrical equipment repair are developed in accordance with the requirements of SCES RK and standard curricula and educational programs. EPs include a working curriculum, work training programs, calendar-thematic plans, academic and professional practice programs in accordance with the schedule of the educational process, educational and methodical complexes in the disciplines of working curriculum. All these documents were submitted for verification to members of the EEC. The EPs are aimed at fulfilling the mission of the college - the training of highly qualified and competitive specialists focused on solving issues of industrial and innovative development in accordance with the needs of the market of the Republic of Kazakhstan and the region.

The content of the accredited EP is consistent with the State Educational Standard and other legal acts of the Republic of Kazakhstan in the field of technical and vocational education and guarantees a sufficient quality of training for a specialist who meets the mission of the college.

The priorities for the development of the college are the quality of organization of all processes: maximum compliance with the needs of enterprises in the preparation of qualified workers, retraining and advanced training of employees of enterprises, effective organization of labor of the teaching staff, strengthening the material and technical base of the college in accordance with the development of production in the region.

To achieve these goals, a number of strategic tasks are solved in each direction of the educational program development. In 2019, the college together with five secondary schools of the city of Petropavlovsk, North Kazakhstan State University named after M. Kozybaev and "Rainbow" LLP signed a memorandum of cooperation (Appendix 7). The purpose of this agreement is the integration of efforts and resources of the parties within the framework of the School-College-University-Enterprise network interaction, the creation of a unified educational-production environment and conditions of continuing education in the field of personnel training for the direction: production of food and plastic and metal products.

The directions of development of EP are adequate to the available informational, material, technical, and human resources of the college. There are study rooms, laboratories and

workshops to ensure a high-quality educational process in the educational program. Classrooms have multimedia projectors and computers. The classrooms are equipped with visual aids, methodological and educational literature, and electronic textbooks. Representatives of enterprises of social partners attend college annually in order to get acquainted with the material base and formulate recommendations on strengthening and updating equipment. Based on one of the recommendations of enterprises, (Appendix 8) in 2014 the college launched a machine tool workshop with program control in the educational process to expand the competence of college students in the specialty "Lathe practice and metal working". This also allowed for retraining and advanced training of employees of enterprises in the qualification "Operator of machine units with program control".

Evaluation of the effectiveness of the college in academic, scientific, methodological, educational, research and production work is a continuous process and is carried out at meetings of the CMC, pedagogical and trustee councils, and is also carried out by interviewing students, employers and parents as the main consumers of educational services.

Evaluation of the effectiveness and efficiency of units and their interaction is carried out by listening and discussing the reports of the chairmen at operational meetings, scheduled meetings of methodological and pedagogical councils.

During each academic year, the chairmen of the CMC, the methodologist and deputy directors monitor all aspects of the development of educational programs.

The successful implementation of the educational program is determined, first of all, by the planned, targeted and effective implementation of the goals and plans for the development of the educational program. The development plan and goals are drawn up with the participation of program stakeholders, in particular: local executive bodies, employers, training methodologists, and teachers. Labor market needs are analyzed at conferences, seminars, meetings, and forums.

Organizational and administrative documentation clearly defines those responsible for business processes, unambiguously distributes the duties of the staff. For example, all employees have a clearly defined circle of obligations and rights reflected in the job descriptions of the department head, general education teacher, special discipline teacher, study group curator, etc.

The cycles of disciplines of accredited specialties are fulfilled by an annual plan aimed at implementing the issue of improving the quality of knowledge.

There is an annual planning for the development of EP and the monitoring of its implementation, that is, it is a department work plan, a work plan for cycles, a plan for the development of training methodological documentation, equipment procurement, equipment for laboratories and classrooms, and weekly monitoring of the implementation of planned activities is carried out. When changing external regulatory documents, changes are made to work curricular, work programs, calendar-thematic plans, training and methodological complex of EP.

The college has an exhaustive database of internal and external legal acts regulating all the basic processes, documents are generally available to all teachers and employees of the college, contain familiarization sheets and are in the department of information technology and cycles.

The content of the EP corresponds to the vision, mission and strategy of the college.

There are trust boxes on each floor of the college and a helpline works, where everyone can give suggestions, complaints and other appeals.

The members of the EEC noted that information on educational programs and decisions made is brought to the teaching staff, but informing of stakeholders is carried out passively.

The organization demonstrates the development and implementation of a strategic college development plan. In this process, students, teaching staff and stakeholders are involved. Based on interviews and questionnaire interviews, a lack of awareness of interested parties about the content of plans and the results of its implementation was revealed. In a conversation with employers on the basis of practices, practice leaders noted the involvement of college representatives in the revision of the study program and the introduction of changes to improve the quality of education, taking into account the specifics of the realities of today's production.

The development of general competencies covers: general education, socio-ethical competencies, economic and organizational and managerial competencies; willingness to fulfill social, economic, professional roles, geographical and social mobility in accordance with the level of education.

Special competencies are acquired by students in the study of special subjects, the protection of course projects, educational, technological and undergraduate practices.

An anonymous survey of teachers conducted during the visit of the EEC IAAR showed that involvement in the process of making managerial and strategic decisions is "very good" 26.7% and "good" –53.3%.

Moreover, the vast majority of teachers believe that the mission and strategy of the college is successfully reflected in the curriculum and assessment procedures (total average 100%). Also, 100% of teachers said that they can successfully use their own strategies in the learning process.

A survey of students conducted during the visit of the EEC IAAR showed that

- The level of accessibility and responsiveness of the college administration is assessed as high - 100%;

- The availability of computer classes and Internet resources - "fully satisfied" - 76.5%, partially satisfied-20.6%.

The vast majority of students (88.2%) are satisfied with the level of implementation of these rules and EP strategies.

Analyzing the work on the standard "Management of educational program", it can be noted that the success of the educational program is determined, first of all, by a systematic, focused and effective implementation of the goals and development plan of the educational program, which, respectively, should be as transparent as possible, accessible to all interested individuals, but summing up, it can be noted that the implementation of business processes requires improvement and feedback from interested parties, could be implemented by activating a forum or a blog on the website of the college.

EEC notes that according to this standard in the educational institution, special attention is paid to the following positions:

-the organization of TVE demonstrates the development of a development plan for the educational program, its focus on meeting the needs of the state, stakeholders and students.

- EP management must demonstrate evidence of openness and accessibility for students, teaching staff, and parents.

-the organization of TVE should ensure the adequacy of the development plan of EP to the available resources, the needs of the labor market and the educational policy of the Republic of Kazakhstan.

- EP management must provide evidence of the transparency of the educational program management system

-the organization of TVE should involve representatives of groups of stakeholders, including students, the teaching staff and employers in the formation of the development plan of the EP.

In order to continue further development and improvement of the college activity in implementing accredited educational programs, EEC IAAR recommends:

- To develop plans for the development of educational programs in accordance with the available material, educational, methodological and information resources.

- To carry out regular corrections of development plans of EPs, based on the results of monitoring of their implementation.
- To develop mechanisms for analyzing EP implementation in all areas on the basis of its self-examination.
- To consider the introduction of a process approach in management: to compile a network of basic and auxiliary management processes.
- To appoint process owners, to develop a map of business process.
- To consider goals for quality and continuous improvement of activity.
- To conduct continuous monitoring of the effectiveness of business processes.
- Implementation of an assessment system in accordance with World | Skills standards.

EEC notes that the specialized college profile for this standard contains 3 – strong positions, 10 - satisfactory and 9 - require improvement.

#### 6.2. Standard "Specifics of Educational Program"

The content and structure of the College EP is developed in accordance with the Order of the Minister of Education and Science of the Republic of Kazakhstan dated on October 31<sup>st</sup>, 2017 No. 553 "On the approval of standard curricula and standard curricula for the specialties of technical and vocational education", and the Order of the Minister of Education and Science of the Republic of Kazakhstan dated on June, 15<sup>th</sup>, 2015 No. 384 "On the Approval of Model Curricula and Model Educational Curricula in Technical and Vocational Education Specialties" and by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated on October 31<sup>st</sup>, 2018 No. 604 "On approval of state compulsory standards of education at all levels of education."

Since 2018, the college has been working on the development of educational programs based on a modular competency approach (Appendix 14). To form the EP, working groups were created in the areas that included masters of industrial training and teachers of special disciplines (Appendix 15). At the final stage of the development of the EP, the coordination of work curricula and work training programs for professional modules with social partners was ensured. JSC "Petropavlovsk Heavy Engineering Plant", which is the basic partner in the implementation of dual training, "Rainbow" LLP, and "SK-Tora" LLP were selected for approval of the EP.

Specialists of the enterprise JSC "Petropavlovsk Heavy Engineering Plant" (Linnik Stanislav Anatolyevich - the head of the group, Sklyarov Vladimir Nikolaevich - the head of the bureau, Tyukanko Elena Nikolaevna - the head of the quality department, Taranina Tatyana Yurievna - leading specialist) conducted an examination of the developed EP. After making changes and additions, working curricula and work training programs for professional modules were considered at a meeting of the pedagogical council and approved by the director of the college.

Table 2 - Modules and disciplines of educational programs included in the work curriculum at the suggestion of employers

N⁰	Company name	Names of modules and disciplines
1	JSC "Petropavlovsk Heavy	Equipment and tools for electrical work
	Engineering Plant"	
2	LLP "Rainbow"	Basics of plastics processing technology
3	LLP "SK-Tora"	Installation of security systems and additional

		equipment of the car
4	Branch of "Esil su" RSE on REM	Repair, assembly and testing of components of
		various equipment

Educational process at the college is conducted in Russian. The language policy is implemented in accordance with the Constitution of the Republic of Kazakhstan and the Law "On Languages in the Republic of Kazakhstan" dated on July 11<sup>th</sup>, 1997. All documentation on EP is conducted in 2 languages. The principle of gender equality applies to all students. Equal accessibility to educational and upbringing activities is ensured.

The expert group conducted an analysis of working curricula and programs for accredited EPs.

Educational programs are structured in such a way that, starting from the first year, students along with the disciplines of the general education cycle study professional modules, consolidating theoretical knowledge with industrial training in the laboratories and workshops of the college. In the second and third courses, students alternate theoretical training in college with professional practice in enterprises. The educational process is structured in such a way that 60% of the volume allocated for the study of professional modules is occupied by industrial training and professional practice.

The list of studied modules and disciplines of EP is brought to the attention of students from the first days in college. Masters of vocational training, class teachers at the first meeting of the group introduce to the students the schedule of the educational process for the academic year, a list of modules and disciplines of the EP, a list of disciplines submitted to the examination session. The content of modules and disciplines, each separately, is voiced by teachers at the first introductory lesson; the form of knowledge control in the discipline, assessment criteria is brought to the attention of students. Information is conveyed to parents of students at parentteacher meetings. At the same time, working curricula, working programs and the educational process schedule are available for students on the college educational portal.

The direction of the EP for vocational training includes: theoretical, laboratory and practical classes in vocational modules, term papers, industrial training and professional practice. Various types of knowledge control included in educational and methodological complexes allow evaluating the effectiveness of mastering students with professional competencies. The materials provided in the educational and methodological complexes - the subjects of lecture classes, tasks of laboratory and practical work, work carried out in educational practices - are reflected in the examination material.

The content of working curricula according to the EP provides for the assimilation of general educational, basic, professional and special modules. To ensure the achievement of goals, the structure and content of the educational working plan includes the creation of conditions aimed at assimilating the necessary knowledge in the future for the student, the totality of information materials, instilling skills and abilities.

It is important in the educational working plan the development of criteria for assessing the level of competency formation.

The verification of established professional competencies is carried out in the following forms:

• current control - this is quizzes, interviews, testing, solving production situations and competency-based tasks;

• intermediate control - control works, testing;

• final control - test and exam.

A list of taught disciplines with a class schedule is available for students. To provide access to the Internet, study rooms equipped with personal computers have been allocated. In addition, the college has a permanent WI-FI network. The college's website also works in order

to provide students with access to the content of education, the names of disciplines, necessary and interesting information about the college.

The college has a psychological service that deals with identifying personality problems, consulting students on interpersonal interaction, providing psychological assistance to students on a "risk group", etc. The psychologist consults students who find themselves in a difficult situation. There is a trust post office in the college where everyone can ask a question, that interests him, or share his problem.

As a part of the educational process, the availability and functioning of the system of individual assistance and counseling of students on the educational process is ensured. The specifics of the EP in each specialty defines the tasks for training a specialist who is able to fulfill the tasks assigned to him when working at various enterprises of the corresponding industry. EP demonstrates a graduate model, which has basic and professional competencies.

The mechanism for assessing learning outcomes is regulated in the following documents: in the Regulation on the ongoing monitoring of academic performance, intermediate and final certification of students, the Regulation on the Commission for the settlement of disputes between participants in educational relations.

The control of knowledge, skills, and competencies of graduates is carried out on the final certification. Final certification of college students includes passing final exams in general professional and special disciplines or professional modules and performing test work on the appropriate qualifications. To conduct the final certification by the order of the director of the college, a certification committee is created. The certification commission consists of qualified specialists from social partners.

College teachers use the following forms of tasks: a survey (written, oral), testing, a quiz, a press conference, an independent task, a group project, defense of a practical task, test work.

The transparency of knowledge assessment in college is ensured by regular recording of the results of the current control in the journal of theoretical education. At the same time, the educational portal of the college was launched in the current academic year, where it is planned to reflect the learning outcomes of students and their access to all information related to the educational process. Exam results are displayed in the study journal, student's record-book and examination sheet. Other information on knowledge assessment processes is communicated to students through masters of vocational training and class teachers.

The quality of educational services for the formation of professional competence of future specialists corresponding to the qualification framework and the satisfaction of market needs is confirmed by the following fact: graduates of specialties are in demand and successfully work in production.

Within the framework of the EP, employment processes are implemented on the basis of concluded agreements with social partners.

Classes are held in the form of lectures, practical exercises. All students are provided with the opportunity to undergo industrial training and professional practice in their specialty.

17 social partnership agreements were signed and bilateral close relations were established with the following enterprises.

The EP demonstrates the graduate model for accredited EP.

A graduate model is a model that combines knowledge, skills, basic and professional competencies, individual qualities in accordance with educational programs.

The model of a college graduate is a combination of knowledge, skills and abilities integrated into the competencies of personal development, basic and professional competencies that graduates should have at the time of graduation (Appendix 16). Professional competencies included in the graduate model are compiled taking into account the unified tariff and qualification reference book. When forming graduate models, the requests of social partners, which were determined at meetings with employers, were also taken into account. In particular,

according to the recommendations of specialists of JSC "Petropavlovsk Heavy Engineering Plant" and "Rainbow" LLP, additions were made to the educational program in the specialty "Turning and metalworking", opening up new competencies for graduates, allowing them to carry out the processing of parts on machine tools with program control and injection molding on injection molding machines.

The level of training of students with modular training technology provides for the development of basic and professional modules for the formation of basic and professional competencies.

During a conversation with teachers of special disciplines about the graduate model, it turned out that teachers do not have an idea about the model of the graduate of the EP, about who participated in its development.

A survey of students conducted during the visit of the EEC IAAR showed that

- 91.2% of students are fully satisfied with informing about courses, educational programs, and academic degrees;

- 70.6% of students are fully satisfied with the clarity of presentation of the course program.

EEC notes that according to this standard in the educational institution special attention is paid to the following positions:

- EP management should provide equal opportunities for students, regardless to the language of study;

In order to continue further development and improvement of the college activity in implementing accredited educational programs, EEC IAAR recommends:

- to improve the model of the graduate of educational programs, taking into account competencies that are as close as possible to the conditions of their future professional activity;

- to conduct consultations, surveys, etc., when making decisions on the graduate model;

- to continue work on attracting social partners in the educational process;

- to analyze the conformity of activities with learning outcomes;

- when implementing the educational program, monitoring of the student's independent work should be carried out;

- to ensure the systematic development, implementation and effectiveness of active teaching methods and innovative teaching methods in EP;

- to continue work on replenishing the library fund with educational, teaching, methodological and scientific literature in the state language in the context of accredited specialties (including copyrighted works of college teachers);

- to intensify work on the implementation of the results of practical achievements of teachers in the educational process.

# According to the specialized profile of the standard "Specificity of Educational Programs", 24 criteria are disclosed, of which 9 - have a strong position, 12 - satisfactory and 2 - require improvement.

Thus, the accredited specialty fully meets the mandatory requirements of this standard.

#### 6.3. Standard "Teaching staff and the efficiency of teaching"

One of the most important factors in the implementation of educational programs in the specialties, as well as in ensuring their quality, is the involvement of highly qualified practicing teachers in teaching.

In the framework of educational programs, practicing teachers are: teachers with experience in the relevant industry or working part-time in the respective organizations; highly skilled workers of enterprises and organizations working in college part-time.

The priority of the college is determined by the formation of a high-quality contingent of teaching staff. Particular attention is paid to the provision of teaching staff who own modern teaching methods, knowledge and skills.

An individual assessment of the activities of teachers is carried out at the annual meeting of the certification commission.

For the use of innovative and information technologies in the educational process, the management of the educational program facilitates the organization of continuing education courses at the National Center For Professional Development «Orleu», Non-commercial Joint Stock Company "Holding "Kasipkor".

The selection of personnel is carried out by the college administration, the personnel inspector, the commission for determining seniority through interviews with graduates of North Kazakhstan State University named after M. Kozybaev, posting advertisements in the media, online resources, on the city labor exchange, etc., based on the principles of openness, equality, freedom of choice.

Employment is carried out in accordance with the legislation of the Republic of Kazakhstan and in accordance with standard qualification characteristics.

Information about the teaching staff is available to the public and is located on the college website. On the site you can find out education, taught subject, qualifications and email address of teachers. The college also has a catalog of the teaching staff, from which you can find out the necessary information about teachers.

A comprehensive assessment of the quality of training is carried out by attending a teacher's training sessions. Teacher training is also evaluated by criteria. This indicator is used to monitor the quality of teaching.

Confirmation of the teachers' fulfillment of the teaching load and types of work is a list of the hours performed by the teacher, the schedule of classes, the training journal, and the teacher's individual work plan.

At the beginning of the school year, the teacher draws up an individual plan of selfeducation for the school year, where he indicates all the planned activities: the study load, educational and methodical work, scientific work, educational work. A compiled individual plan of self-education at the end of each semester is considered at a meeting of the CMC and the teacher's rating is determined by the teacher's work, the college also has an intra-college schedule-control of the educational process, which includes visiting teachers' classes, checking theoretical journals, checking educational and methodical documentation and a director's hour. The results of the control are discussed at the directorate and improvement measures are applied.

A survey of teaching staff conducted during the visit of the EEC IAAR showed that:

- teachers are satisfied with the content of the educational program - "very good" 40% and "good" - 60%

- the level of feedback of teachers with college administration is satisfied at "very good" - 46.7%, "good" - 46.7%;

A survey of students conducted during the visit of the EEC IAAR showed that students are completely satisfied:

- the attitude of students and teachers - 94.2%;

- objectivity and fairness of teachers - 97%;

- teacher's presentation of the material in an interesting form - 97.1%;

- the relevance of the taught material - 91.2%;

- teacher's objectivity in assessing achievement of students - 97%;

Analyzing the work on the standard "Teaching staff and the effectiveness of teaching", it can be noted that a high representation of pedagogical skills is determined by a constant level of professional development and attendance of various schools and creative classes. Despite the high qualification of teachers, the methodological work should be strengthened.

Accessibility and awareness of the public about the work of the teaching staff is not a strong indicator of the college, so it is necessary to conduct a systematic assessment of the teaching staff by the college administration, but not according to the results of implementation of individual plans.

EEC notes that according to this standard in the educational institution special attention is paid to the following positions:

- EP management must demonstrate the compliance of the potential of the teaching staff with the specifics of educational programs;

- The workload of teachers should include various activities. EP management should demonstrate evidence of the fulfillment by teachers of all types of the planned workload;

- EP management must ensure that the satisfaction of the teaching staff is monitored;

- An important factor is the participation of the teaching staff in society's life.

In order to further development and improvement of the college activity in implementing accredited educational programs, EEC IAAR recommends:

- to actualize the plan for advanced training of teaching and management staff in order to implement the mission and development strategy of the college, including on the issues of "Management in Education", "Innovative Educational Technologies and Interactive Teaching Methods";

- to improve the IT competence of teachers, including for the implementation of innovative teaching and learning methods in practical activities;

- to strengthen the work on the individual development of teachers (participation in various competitions of the republican, regional level);

- to strengthen the educational and methodological work of teachers, including obtaining copyright in educational and methodological works in the specialties;

- to improve methodological work in order to improve the quality of teaching, systematize activities to improve skills and conduct certification of teachers;

- to provide for the possibility of international cooperation in the field of improving pedagogical and methodological skills and the exchange of experience with foreign colleagues on the use of innovative pedagogical technologies.

The EEC notes that the specialized college profile for this standard contains 4 strong positions, 5 satisfactory and 2 positions require improvement.

#### 6.4. Standard "Students"

The formation of the potential contingent of students is carried out through career guidance work. In college, career guidance is carried out in the following areas:

- through attracting students to campaign on the principle of "equal to equal" Bring a friend;
- conducting an advertising campaign that enhances the prestige of the college and ensures the attraction of the largest number of applicants who are able to realize their intellectual and creative potential;
- through educational activities in college: open days, field trips to enterprises, training workshops, contests, etc.;
- distribution of information materials: booklets, electronic presentations, videos about the college;
- development of a strategy for working with school teachers, applicants and their parents;
- ➢ informing school graduates through the college website, social networks.

The prognosis of the 9th grade graduates is studied; a potential data bank of applicants who have expressed interest in the specialties of the college is being formed. In the framework of

marketing activities, various forms are used: media advertising - newspaper, television, radio; conducting and participating in various PR-actions, exhibitions; organization of competitions, conferences; development and systematic updating of information on activities on the college website, on a social network; creating videos.

Reports on the results of career guidance work, on the quality of career guidance are heard at meetings of the pedagogical council, analyzed, conclusions are drawn and suggestions are made to improve the quality of career guidance. Analysis of the results of admission to college over the past 3 years shows a trend in the demand for college education. Compared to previous years, admission increased by 26-40%, respectively.

The official website of the college (mkp.sqo.kz) is one of the main sources of information for applicants and their parents. The material presented on the site for applicants about specialties allows the applicant to get complete information when choosing a specialty. For example, objects of professional activity, requirements for the level of training, possible places of employment. It is posted on the college website information for students on educational programs, the schedule of the educational process, lesson schedules, regulatory documents for conducting current, intermediate and final control of students' knowledge, etc.

Admission to the college is carried out in accordance with the Model Rules for admission to education in educational institutions implementing educational programs of technical and vocational education, approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated on October 18<sup>th</sup>, 2018 No. 578.

Enrollment of students to the number of college students is carried out based on the results of the interview.

In order to comply with common requirements and resolve disputes during entrance examinations in subjects, as well as to protect the rights of applicants to the college, an appeal commission is created.

For the adaptation of students, a career guidance week is held; an introductory lesson is held on the knowledge assessment system, the rules for calculating grades. Students get acquainted with departments, school rules and the charter of the college, community circles and student organizations, operating in the college, library work hours, a reading room and a subscription.

On the accredited specialty in the college there are circles where about 20-25 students of 2 and 3 courses are covered.

The college uses various forms of ongoing monitoring of academic performance conducted in training sessions according to the schedule: oral interviews, written control, presentation of homework, discussions, trainings, round tables, tests, etc.

The work with gifted students is carried out at the college throughout the training process and regularly.

Having professional practices in accredited EPs is an important component in the preparation of competitive specialists and is of great importance for the socio-psychological adaptation of graduates to the conditions of the labor market. Professional practice is aimed at consolidating the theoretical knowledge gained in the process of studying at college, acquiring practical skills and forming professional competencies of graduates.

The organization and conduction of professional practice on accredited educational programs is carried out in accordance with the Law of the Republic of Kazakhstan dated on July  $27^{th}$ , 2007 "On Education", the Labor Code of the Republic of Kazakhstan dated on November  $23^{rd}$ , 2015, the Rules for the Organization and Holding of Professional Practice and the rules for identifying enterprises as bases for practice No. 107 dated on January 29<sup>th</sup>, 2016, the requirements of the State compulsory standards of technical and vocational education, approved by the order of the Minister of Education and Science of the Republic of Kazakhstan on October  $31^{st}$ , 2018 № 604, model curricula and learning process charts.

In the process of studying under accredited educational programs, students go through training and industrial practice. Programs have been developed for each type of practice; agreements have been concluded with organizations, enterprises, and institutions. The specialization of the chosen practice bases corresponds to the profile of the specialty. There are approved practice programs, signed agreements on cooperation with practice bases, and orders for referral to practice. The results of the practice are recorded in the form of diaries and reports, which are considered at a meeting of the commission. Grades are reflected in the student records and grade books.

The college assists graduates in their further employment and continued studies. It supervises the employment: gives advice and informs about free jobs, helps in creating a resume, prepares for an interview with the employer. Since March of each academic year, Open Doors Days, job fairs have traditionally been held, during which specialists and heads of organizations carry out explanatory work. The curators of the groups hold various meetings with graduates on the topic "Mamandygym maqtanyshym."

In the 2017-2018 academic year, employment amounted to 74% compared with the 2016-2017 academic year, increased by 3%, respectively, compared with the 2015-2016 academic year - by 13%. There is a steady trend in the demand of our graduates in the labor market.

College graduates of different years have pages on social networks. Graduates learn about the news in the life of the college on their pages on social networks, as well as on the college website.

To conduct extracurricular activities effectively, students participate in various weeks, circles, scientific conferences, and sports sections. In order for EP students to express their opinions and exchange views, a survey will be conducted. Active work is held to involve young people into socially significant activities. The college has circles in the following areas: "Traditions of Kazakhstan", "Young Director", "Ecological Path of Health", "Young Patriot", "Technical Creativity". Classes in the circles are conducted by experienced teachers and masters of industrial training with professional skills in accordance with the schedule approved by the director of the college.

For many years, Mechanical Engineering College has been a winner in the regional competition of technical creativity. In 2016, in the regional competition of aircraft "One sky - one world", students, members of the circle of technical creativity under the guidance of masters of industrial training Kachulina A.Yu. and Ovchinnikov B.V., took the 2nd place. Also in 2016, following the results of a technical creativity contest in various nominations, students' exhibits took the following places: MI-28 helicopter model — 2nd place, Po-2 Airplane model — 1st place, Viking wooden ship model — 2nd place, ZIS-5 car model — 3rd place, a reduced layout of the Maxim machine gun of 1910 - 1st place (Appendix 20).

In 2017, according to the results of the competition, in various nominations, students' exhibits took the following places: ZIS-110 car model - 3rd place, layout of a floating minihydroelectric power station - 1st place, model of the Katyusha rocket launcher - 3rd place, Mendosinskiy motor model - 2nd place, "Maxim" machine gun model of  $1910 - 1^{st}$  place. All winners were awarded with diplomas and prizes.

In 2018, prizes were also taken by the work of members of the circle: a model of an antiquity throwing machine, a Tesla coil, a model of the Bell P-39 aircraft, a model of the "Stirling" engine. Some of the exhibits were specially made as a part of the "Rukhani Zhangyru" program and donated to the Museum of Local History, the "Abylay Khan Residence" Museum Complex and the Nikolai Pogodin Regional Drama Theater. Thus, in honor of the opening of the anniversary season, the Nikolai Pogodin Theater was presented a gift by Petropavlovsk Mechanical Engineering College in a form of a bas-relief of two Kazakh batyrs Karasay and Agyntay with the drama theater on the background. This work was carried out by college students on computer-controlled machines within the framework of the program article of the

first president of the Republic of Kazakhstan, Nursultan Nazarbayev, "A look into the future: the modernization of public consciousness", "Rukhani Zhagyru", which is aimed at preserving historical cultural monuments and developing youth patriotism.

According to the results of the competition in 2019, the presented exhibits of college students took the following places: the verticalizer with a reverse slope for children with cerebral palsy  $-2^{nd}$  place, and the layout of the Eiffel tower  $-3^{rd}$  place. Under the guidance of the masters of production training, Boris Vladimirovich Ovchinnikov and Nikolai Dmitrievich Gordin, , five verticalizers with a reverse slope for children with cerebral palsy were made by students at the classes of the technical creativity circle. Four verticalizers were donated to the boarding school for children with a violation of the musculoskeletal system named after Shakshakbaev and the correction office of Akkayynsky district. This design is easy to assemble and can be transported to any desired place, area, etc. The verticalizer is indispensable when the child - a disabled person with cerebral palsy, and, due to the peculiarities of his development, spends a lot of time in a lying or sitting position and risks getting kidney or pulmonary failure, osteoporosis and pressure sores.

The second exhibit, the Eiffel Tower model, was made by the student of the SShP-18 group, Artyom Musaipov, under the guidance of masters of production training Mirolyubova Olga Petrovna and Berdnichenko Viktor Grigoryevich.

Since 2017, college students have been participating in professional skills contests among students in accordance with WorldSkills standards. In 2017, on the regional stage, students took 2nd and 3rd places in the framework of the national WorldSkills Kazakhstan Championship among TVE students in the "Electrical Installation" competency. In March 2018, in the competence "Operating of machine units with program control" took 3rd place; according to the competence "Wiring" - 2nd and 3rd place; in competence "Body work" - 2 and 3 place. In 2019, the 2nd year student Ilyashenko Ilya took 3rd place in the competence "Operating of machine units with program control" took of machine units with program control students.

Annually, under the guidance of the teacher of the Initial Military Training Biletchenko V.M., the head of the "Young Patriot" club, college students take part in the regional sports contest "Zhas Ulan", where they occupy the first or second place for many years.

In addition, every year there is a contest held among first-year students, for the title "Best Recruit", which helps to form social activity among children aimed at serving their homeland.

There is a committee on youth affairs at the college; the chairman is the psychologist Kolesnikova E.I.

For four years college teachers and students have been participating in the Russian-Kazakh archaeological expedition as a part of the combined detachment of the Scientific and Analytical Center for the Preservation of Cultural and Natural Heritage - AV KOM - "Heritage" of the city of Yekaterinburg, since the ornaments of the artifacts found in Russia and in the north of Kazakhstan turned out to be identical, which indicates their belonging to the same culture - Andronovskaya. Teachers Zubenko N.A., Kachulina A.Y. and a group of students were awarded diplomas for their active and fruitful participation in the work of the field season.

A survey of students conducted during the visit of the EEC IAAR showed that:

Students receive information on the results of the assessment of their knowledge, skills, basic and professional competencies directly from subject teachers and masters of production training based on the results of ongoing performance monitoring, intermediate and final certification of students in theoretical and production training journals, as well as on the college educational portal, which is planned to reflect fully the learning outcomes of students and their access to all information related to the educational process.

- 91.2% are fully satisfied with the explanation before entering the rules and strategies of the educational program (specialty);

- 88.2% are fully satisfied with the level of implementation of these rules and the strategy of the educational program (specialty);

- 88.2% are fully satisfied, 5.9% are partially satisfied with the academic load / student requirements;

- 70.6% are fully satisfied, 26.9% are partially satisfied with the timely assessment of students. At the same time, 29% of students are partially satisfied;

- 91.2% are fully satisfied and 8.8% of students are partially satisfied with the speed of response to feedback from teachers regarding the educational process.

- 64.7% are fully satisfied with equal opportunities for all students. At the same time, 2.9% of students are partially satisfied with equal opportunities for all students.

EEC notes that according to this standard in the educational institution special attention is paid to the following positions:

- EP management must demonstrate the policy of forming a contingent of students of EP and the transparency of its procedures;

- An important factor is monitoring the employment and professional activities of graduates;

- EP management should provide students with the opportunity to exchange and express opinions;

In order to continue further development and improvement of the college activity in implementing accredited educational programs, EEC IAAR recommends:

-initiate a mechanism for stimulating students to self-education;

-formalize the organization of graduates and use a real feedback to receive continuous recommendations for improving the educational process.

EEC notes that the specialized college profile for this standard contains 5 strong positions and 5 satisfactory

#### 6.5. Standard "Resources used in program implementation"

#### One of the most important components of quality training in EP is the resources used.

The college infrastructure is a united complex that includes: an educational building, classrooms, laboratories and workshops, a library, reading and assembly halls, a conference room, a sports base (sports and fitness rooms, a football and hockey ground), a medical center and a dining room.

EP management provides students with the maximum possible amount of structured, organized information on taught modules and disciplines. Information on the studied modules and disciplines: working curricula, working training programs, lectures, presentations, assignments for independent work, exam materials, compulsory and additional literature are available for students on the college educational portal. Each student has a personal login to use the educational portal and can receive all the necessary information regarding the educational process. Teachers also have personal access to the portal and post the necessary information on the modules and disciplines taught by them.

Useful training area (450 sq.m.), owned by the college under the right of economic management, meets the fire safety requirements, qualification requirements for the activities of educational organizations and the requirements of state general educational standards of educational programs. The Mechanical Engineering College is located in the same educational building with the North Kazakhstan Vocational and Pedagogical College in connection with which the material and technical base (classrooms, laboratories, workshops, training ground), library resources, an assembly hall, sports halls and a canteen are used together (Appendix 23).

To carry out the training of future specialists on the production there is a training room functioning at JSC "Petropavlovsk Heavy Engineering Plant". The procedure of accommodation of college students at dormitory is established by the Agreement on cooperation in providing of accommodation in a dormitory of the North Kazakhstan Vocational and Pedagogical College (Appendix 24).

The following audiences are used to organize the educational process according to educational programs and to create appropriate conditions:

- Cabinet of special disciplines of turning and metalworking.
- Cabinet of special disciplines for the operation of machinery and equipment of the industry.
- Cabinet of special disciplines of car maintenance and repair.
- ➤ Machine shop.
- Locksmith-mechanical workshop.
- Welding workshop.
- Electrical installation workshop.
- > Workshop of machine tools with program control.
- Laboratory of electrical machines and electric drives.
- Laboratory of power supply, relay protection and automation.
- ➤ Training ground.
- > Laboratory of car system.
- Laboratory of car maintenance and diagnostics.
- Laboratory of car maintenance and repair.

The cabinet of special disciplines of turning and metalworking, machine shops are equipped with necessary equipment and tools.

The electrical workshop is equipped with the following equipment and tools: electrical tables for 8 workplaces with electrical materials and devices, a power switchboard (a shield with mounting plate -7) - 1 pc., Model "a House plan with lighting network" - 1 pc., Drilling machine - 1 pc., sharpening machine - 1 pc., a set of electrical installation and measuring tools.

The laboratory of power supply, relay protection and automation is equipped with the following equipment and tools: laboratory tables - 8 pcs., forced-air and exhaust installation - 1 pc., Air heater - 1 pc., Unit of vitamin-grass meal AVM 1.5 - 1 pc., stand of the ZAV 20 grain cleaning unit - 1 pc., set of electrical installation and measuring tools.

The laboratory of electric machines and electric drives is equipped with the following equipment and tools: laboratory table - 7 pcs., A stand for laboratory and practical work in the direction of "Electric machines and power supply of industrial enterprises" - 5 pcs., An electric motor - 12 pcs., A transformer - 3 pcs.

The training ground is equipped with the following equipment and tools: 10kW voltage transformer - 1 pc., Wire bundle support - 3 pcs., High-voltage supports - 3 pcs., TM 25 transformer 25 - 4 pc., 10 / 0.4kV transformer - 1 pc., a set of electrical installation and measuring tools.

The laboratory of automobile system is equipped with the following equipment and tools: a car "Fiat" - 1 pc., parts, components, devices, units of cars and trucks, a set of locksmith tools and accessories.

The laboratory for car maintenance and repair is equipped with the following equipment and tools: a universal stand for testing lubrication devices for auto tractor engines USIN-3 - 1 pc., A stand for adjusting diesel fuel equipment SDTA-1 - 1 pc., A stand for grinding in valves OP667 M - 1 pc., A stand for checking and adjusting hydraulic attachment system of a tractor KI-1774 - 1 pc., table-fixture for grooving the generator plates - 1 pc., stand for checking nozzles - 1 pc., a device for balancing the crankshaft PB 1400 - 1 pc., stand for grinding bevels of valves OP8022 - 1 pc., a device for adjusting connecting rods URB-VP-M,, internal combustion engine - 2 pcs., a set of bench tools.

There are 82 computers used in the educational process: 1 computer class with 15 personal computers, 3 mobile computer rooms with 45 monoblocks and 22 laptops that teachers use to prepare and conduct classes. All computers have access to the local network and the Internet with an average speed of 8 Mb / s. 6 sets of interactive equipment are used in the educational process of the college.

Teachers and students use various types of applications and e-learning tools: Microsoft Office, CorelDraw, Adobe Photoshop, Compass, 3ds Max, Zbrush, Cura, Artcam, SinuTrain.

The college has a modern sports base, which is used for both academic and independent studies of students. In the gyms there are gymnastics and athletics simulators, a Swedish wall, soccer and volleyballs balls, basketball hoops, 31 ski sets and 12 pairs of skates. The college has a sports ground with a basketball court, a gym, artificial meadow soccer field, 500-meter running track, and a beach volleyball court.

The college library has a reading room with 30 seats, computers, connected to the Internet. The reading room has encyclopedias, reference books, periodicals, as well as literature for reading.

The college library has 8781 copies of books on education, socio-political, technical, natural sciences, fiction, art and sports.

There is a dining room for 182 places in the educational building, which is equipped with electric furnaces, electric stoves, meat grinders and other equipment that comply with the sanitary rules "Sanitary and epidemiological requirements for educational facilities", approved by order of the Ministry of Health of the Republic of Kazakhstan No. 611 of August 16, 2017.

In order to increase the efficiency of training organization, the college is equipped with internal and external video devices, equipped with fire extinguishing means: fire extinguishers, fire alarm systems and warning systems. Computer rooms and laboratories are equipped with fire extinguishers and memos for working with it. Work on object training is held annually.

A survey of teaching staff conducted during the visit of the EEC IAAR showed that teachers never encounter:

- lack of classrooms - 53.3%;

- poor conditions for classes in classrooms -86.7%;

- lack of access to the Internet - 40%;

- inaccessibility of the necessary books in the library - 66.7%.

A survey of students conducted during the visit of the EEC IAAR showed that students are completely satisfied with:

- the level of accessibility of library resources - 91.2%;

- the availability and accessibility of computer classes and Internet resources - 76.5%.

### The EEC notes that according to this standard in the educational institution special attention is paid to the following positions:

- the TVE organization creates a learning environment that promotes the formation of basic and professional competencies and takes into account the individual needs and capabilities of students;

- the VET organization should create conditions for the development of applied skills of students and the teaching staff in the studied disciplines and the possibility of implementing these skills in contests and competitions or in some other way in practice;

- the required number of classrooms equipped with modern technical training facilities that meet sanitary and epidemiological standards and requirements;

- the required number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in them;

- free access to educational online resources.

In order to continue further development and improvement of the college activity in implementing accredited educational programs, EEC of IAAR **recommends**:

- to replenish the book fund with educational and methodological literature and manuals, as well as electronic textbooks;

- to consider the possibility of professional certification of students in the field of specialization in the learning process;

- to carry out work to maintain the material and technical base of the workshops and laboratories of the college for compliance with the technologies used in production by social partners.

#### The conclusions of the EEC on the criteria:

The EEC Commission notes that the institutional profile of the college under this standard contains 7 strong positions, 8 satisfactory.

6.6. Standard "Standards at the context of individual specialties" Evaluation criteria depending on the direction of the EP

#### NATURAL AND TECHNICAL SCIENCES

Training for college specialties is carried out taking into account the specific features of each specialty and includes activities to familiarize students with the professional environment, familiarize themselves with current issues in the field of each EP.

In accordance with the schedule of the educational process, working curricula for professional modules to form a representation and develop interest in students, acquaintance with new equipment and excursions, excursions to the enterprises of the college's social partners are carried out: JSC "Petropavlovsk Heavy Engineering Plant", LLP "Raduga", LLP "Plant of multiprofile equipment", LLP "Poisk", LLP "AVAGRO", LLP "SK-Tora", LLP "STO Jeep" and others.

During the excursions students get acquainted with the features of their profession, with structural units, modern production, the content and nature of labor on the sites of enterprises.

The content of professional modules and disciplines of EP is based and has a clear relationship with modern equipment and technology of mechanical engineering. The use of information technology helps to improve the quality of the educational process and the formation of readiness for professional activities, the formation of information modeling skills, and the need for continuing education.

Equipment of the college workshops and laboratories is effectively used in industrial training, in laboratory and practical classes, in the implementation of projects of scientific and technical creativity, during the practical stage of final certification, for the manufacture of devices and other products for solving production issues. A training room functions at JSC "Petropavlovsk Heavy Engineering Plant" to carry out the training of future specialists on the production.

The teaching staff includes teachers and masters of vocational training, who came from production.

#	Full name	College Position	Educational Program	Previous place of work	Position held at the
					enterprise

Table 6 - "Teachers of the college come from production"

1.	Schukin Vladimir Leonidovich Morozov Alexander	Master of vocational training and teacher of special disciplines Master of	Electromechanical equipment in industry Electromechanical	JSC "Petropavlovsk Heavy Engineering Plant" JSC "Plant	Electrician for repair and maintenance of electrical equipment Toolmaker
	Ivanovich	vocational training	equipment in industry	named after Kirov"	
3.	Ovchinnikov Boris Vladimirovich	Master of vocational training	Maintenance, repair and operation of road transport	OJSC "Petropavlovsk Bus Park"	mechanic
4.	Tatarkin Igor Vitalievich	Master of vocational training	Maintenance, repair and operation of road transport	"ViVaGa- Lada" LLP	Automobile repairman
5.	Mirolyubova Olga Petrovna	Master of vocational training and teacher of special disciplines	Lathe practice and metal working	JSC "Petropavlovsk Heavy Engineering Plant"	Lathe operator
6.	Gordin Nikolay Dmitrievich	Master of vocational training and teacher of special disciplines	Lathe practice and metal working	"Engineering Plant named after Kuibyshev"	Turner-borer
7.	Berdnichenko Victor Grigorievich	Master of vocational training	Lathe practice and metal working	JSC "Petropavlovsk Heavy Engineering Plant"	Lathe operator, Milling machine operator
8.	Popp Sergey Andreevich	Teacher of special disciplines	Lathe practice and metal working	JSC "Petropavlovsk Heavy Engineering Plant"	Design engineer
9.	Cherny Alexander Nikolaevich	Master of vocational training and teacher of special disciplines	Operation of machinery and industry equipment	Petropavlovsk Rural construction plant	Machine operator
10.	Baranova Svetlana Stepanovna	Master of vocational training and teacher of special	Operation of machinery and industry equipment	JSC "Petropavlovsk Heavy Engineering Plant"	Laboratory Assistant of a Power Supply Welding Arc

	disciplines		and Melting
			Welding
			Laboratory

Two specialists of JSC "Petropavlovsk Heavy Engineering Plant" also work at college as part-time masters of vocational training: Guivan Dmitry Nikolaevich - a leading specialist in the repair and mechanical service and Volokhov Sergey Alexandrovich - deputy head of the repair and mechanical service. Volokhov Sergey Alexandrovich is also involved in the following disciplines: "Fundamentals of plumbing and slinging" and "Fundamentals of standardization", "Tolerances and adjustments, technical measurements".

Practice programs in combination with a set of working documentation allow college teachers, employers, and trainees to solve tasks in a coordinated manner, fulfill the requirements of the practice content, and complete the practice in a timely and efficient manner.

All these factors strengthen the practical orientation of college education; facilitate the adaptation of graduates in work collectives. The duration and content of the practices are in line with EP of TVE. Schedules for conducting educational, production and undergraduate practices take into account the proposals of employers, are approved by the director of the college in the schedule of the educational process.

Among the leaders of the practice from the enterprise, a large proportion falls on the graduates of the department, who provide support and understanding in the organization and completion of all types of practices. They also assist in the signing of agreements and memoranda, as well as in the employment of graduates, thereby showing patriotism to their college.

The EEC notes that according to this standard in the educational institution special attention is paid to the following positions:

- The teaching staff involved in the EP should include practitioners with experience of working in enterprises in the field of specialization of the EP.

- The use of workshops for conducting practical classes, solving practical problems relevant to enterprises in the field of specialization, etc.

In order to continue further development and improvement of the college activity in implementing accredited educational programs, EEC of IAAR **recommends**:

- To continue work on modern technological equipment of laboratories, training grounds, workshops, taking into account the requirements of production and compliance with safety precautions;

- To consider the possibility of conducting individual classes or entire disciplines at the enterprise of specialization.

The EEC Commission notes that the institutional profile of the college under this standard contains 3 strong positions, 1 satisfactory.

#### (III) REVIEW OF STRENGTHS / BEST PRACTICE BY EACH STANDARD (1

page)

-the organization of TVE demonstrates the working-out of a development plan for the educational program, its focus on meeting the needs of the state, stakeholders and students;

- EP management must demonstrate evidence of openness and accessibility for students, teaching staff, and parents;

- the organization of TVE should ensure the adequacy of the development plan of EP to the available resources, the needs of the labor market and the educational policy of the Republic of Kazakhstan;

- EP management must provide evidence of the transparency of the educational program management system;

- the organization of TVE should involve representatives of groups of stakeholders, including students, the teaching staff and employers in the formation of the development plan of the EP;

- EP management should provide equal opportunities for students, regardless of the language of studying;

- EP management must demonstrate the policy of forming a contingent of students of EP and the transparency of its procedures;

- an important factor is monitoring the employment and professional activities of graduates;

- EP management should provide students with the opportunity to exchange and express opinions;

- the TVE organization creates a learning environment that promotes the formation of basic and professional competencies and takes into account the individual needs and capabilities of students;

- the TVE organization should create conditions for the development of applied skills of students and the teaching staff in the studied disciplines and the possibility of implementing these skills in contests and competitions or in any other way in practice;

- the required number of classrooms equipped with modern technical training facilities that meet sanitary and epidemiological standards and requirements;

- the required number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in them;

- free access to educational online resources;

- the teaching staff involved in the EP should include practitioners with experience in enterprises in the field of specialization of the EP;

- the use of workshops for conducting practical classes, solving practical problems relevant to enterprises in the field of specialization, etc.

### (IV) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS (1-2 pages)

#### Standard "Management of the educational program"

- Develop plans for the development of educational programs in accordance with the available material, educational, methodological and information resources.
- Conduct regular corrections of development plans for the EP based on the results of monitoring their implementation.
- Develop mechanisms for analyzing its implementation in all areas, based on self-examination of the study program.
- Consider introducing a process approach to management: compile a network of primary and secondary management processes.
- Assign process owners, develop a business process map.
- Consider goals for quality and continuous improvement.
- Continuously monitor the performance of business processes.
- Implementation of an evaluation system in accordance with World Skills standards.

#### Standard "Specifics of the educational program"

- Improve the model of the graduate of educational programs, taking into account competencies that are as close as possible to the conditions of their future professional activity;
- Conduct consultations, surveys, etc., when making decisions on the graduate model;
- Continue working on attracting social partners to the educational process;
- Analyze the conformity of activities with learning outcomes;
- When implementing the educational program, monitoring of the student's independent work should be carried out;
- To ensure the systematic development, implementation and effectiveness of active teaching methods and innovative teaching methods in EP;
- Continue working on replenishing the library fund with educational, teaching, methodological and scientific literature in the state language in the context of accredited specialties (including copyrighted works of college teachers);
- Intensify work on the implementation of the results of practical achievements of teachers in the educational process.

#### Standard "Teaching staff and the efficiency of teaching"

- Update the plan for advanced training of teaching and management staff in order to implement the mission and development strategy of the college, including on the issues of "Management in Education", "Innovative Educational Technologies and Interactive Teaching Methods";
- Improve the IT competence of teachers, including for the implementation of innovative teaching and learning methods in practical activities;
- Strengthen the work on the individual development of teachers (participation in various competitions of the republican, regional level);
- To strengthen the educational and methodological work of teachers, including obtaining copyright in educational and methodological works in the specialties;

- To improve methodological work in order to improve the quality of teaching, to systemize activities to improve skills and conduct certification of teachers;
- To provide for the possibility of international cooperation in the field of improving pedagogical and methodological skills and the exchange of experience with foreign colleagues on the use of innovative pedagogical technologies.

#### Standard "Students"

- To intensify the work of EP management on maintaining communication with graduates.
- To intensify the work of encouraging students to self-education outside of learning activities.

#### Standard "Resources used in program implementation"

- To replenish the book fund with educational and methodological literature and manuals, as well as electronic textbooks;
- To consider the possibility of professional certification of students in the field of specialization in the learning process;
- To carry out work on maintaining the material and technical base of the workshops and laboratories of the college for compliance with the technologies used by social partners in production.

#### Standard "Standards at the context of individual specialties"

- To continue work on modern technological equipment of laboratories, training grounds, workshops, taking into account the requirements of production and compliance with safety precautions;
- To consider the possibility of conducting individual classes or entire disciplines at the enterprise of specialization.

## (V) REVIEW OF ECOMMENDATIONS ON DEVELOPMENT OF EDUCATIONAL INSTITUTION (1 page)

Not available



#### Appendix 1. Evaluation Table «SPECIALIZED PROFILE PARAMETERS»

		Educ Orga	ation nizatio	on Pos	ition
No	Criteria for evaluation	Strong	Satisfactory	Expect improvement	Unsatisfactorily
	Standard «Management of Educational Program»				
1	The organization of the TVE demonstrates the development of the EP development plan, its focus on meeting the needs of the state, stakeholders and students	/	+		
2	The organization of TVE should ensure adequacy of the development plan for the EP to the available resources, the needs of the labor marked and the educational policy of the Republic of Kazakhstan		+		
3	The organization of TVE should involve representatives of stakeholder groups, including students, teachers and employees, in the development of an EP development plan.				
4	The organization of the TVE demonstrates the transparency of the processes of forming the development plan for the EP. The organization of TVE ensures the awareness of stakeholders about the content of the development plan for the EP and the processes of its formation.		Ę		
5	The organization of the TVE should determine the mechanisms for the formation and regular revision of the development plan for EP and for monitoring its implementation.			+	
6	The organization of the TVE systematically collects, accumulates and analyzes information on the implementation of the EP and conducts self-examination in all directions, develops and revises the plan for the development of the EP			+	
7	The EP development plan is held in public discussion with representatives of all interested parties, and on the basis of proposals and amendments, the authorized collegial body of TVE organization can make changes to the draft.		+		
8	The organization of TVE demonstrates the degree of implementation of the principles of sustainability, efficiency, effectiveness, priority, transparency, responsibility, delegation of authority, delineation and independence of the financing system.		+		

#### CONCLUSION OF THE COMMISSION ON SELF-EVALUATION

9	The management of the EP should include:				
9.1	the management of activities through process			+	
9.2	mechanisms for planning, development and continuous improvement			+	
9.3	monitoring, including the creation of reporting processes, allowing to determine the dynamics in the activities and implementation of plans		+		
9.4	analysis of the effectiveness of changes			+	
9.5	evaluation of the effectiveness and efficiency of the units and their interaction		+		
10	The organization of TVE should document all the main business processes that govern the implementation of the EP			+	
11	The organization of the TVE should demonstrate a clear definition of those responsible for business processes, an ambiguous assignment of staff duties, delineation of the functions of collegial bodies, participating in the implementation of the EP			+	
12	The organization of the TVE should demonstrate the procedure for approving, periodically reviewing and monitoring educational programs and documents regulating these processes		÷		
13	The organization of the TVE should ensure availability and effective functioning of the information and feedback system aimed at students, employees and stakeholders	+			
14	The management of the EP should demonstrate the successful functioning of the EP system of quality assurance including its design management and monitoring Improvement decision-making on the basis of facts		<		
15	The management should provide evidence of transparency in the management of the educational program	+	L		
16	The organization of the TVE should demonstrate the availability and evidence of intensive use in the management processes of the EP system for the collection and analysis of statistics		F	+	
17	EP management should provide a measure of the degree of satisfaction of the needs of the teaching staff, staff and students and demonstrate evidence of eliminating deficiencies found in the measurement process		+		
18	EP management must demonstrate evidence of openness and accessibility for students, teaching staff, parents	+			
TOTAI	L	3	11	8	
	Standard "Specificity of the educational program"				
	Evaluation Criteria: EP Content				
19	The TVE organization should demonstrate the existence of developed models of the graduate of the educational program, including knowledge, skills, basic and professional competencies, personal qualities	+			

20	The TVE organization should provide evidence of the participation of the teaching staff and employers in the development of EP, ensuring their quality		+		
21	The TVE organization should determine the content, scope, logic of the interrelation of academic disciplines, as well as the influence of disciplines, vocational training and professional practice on the formation of basic and professional competencies of graduates	+			
22	Management of the EP should demonstrate the availability of a professional context in the content of academic disciplines	+			
23	Management of the EP should demonstrate an effective balance between theoretical and practice-oriented disciplines	+			
24	The list and content of disciplines should be accessible to students. Disciplines should comprehensively cover all issues, problems in the taught field		+		
25	The structure of the educational program should provide for various types of activities, the content of which should contribute to the development of basic and professional competencies of students, taking into account their personal characteristics	+			
26	An important factor is the renewability of educational programs taking into account the interests of employers		+		
	Evaluation Criteria: individualization of EP				
27	Management of the EP should ensure equal opportunities for students, including students language of instruction	+	Ę		
28	Management of the EP should ensure the availability and effective functioning of the individual assistance and counseling system for students on the educational process		t		
29	Management should create conditions for the effective development of EP	+			
30	Management of the EP should demonstrate the use of the advantages, individual characteristics, needs and cultural experience of students in the implementation of EP			+	
31	Management of the EP should demonstrate individual support for students in the implementation of EP		+		
32	Management of the EP should prove the availability of a monitoring system for students' achievements		+		
Evalua	tion Criteria: Learning Outcomes	-			

34	Management of the EP should ensure objectivity in assessing learning outcomes and the degree of formation of basic and professional competencies of students, in assessing transparency and adequacy of tools and mechanisms for their assessment		+		
35	Management of the EP should ensure that the procedures for assessing the level of knowledge, skills and abilities of students are in line with planned learning outcomes and program objectives		+		
36	Management of the EP should diagnose the knowledge, skills and abilities of students at the beginning of the course and the study of academic disciplines			÷	
37	The processes and criteria for evaluating learning outcomes should be transparent		+		
38	Management of the EP should ensure that students develop skills to continue their education at the following educational levels	+			
	Evaluation Criteria: Teaching Methods				
39	Management of the EP should ensure the systematic development, implementation and effective use of active and innovative teaching methods		+		
40	When implementing the educational program, the student's independent work should be monitored		+		
41	Management of the EP should ensure the possibility of undergoing vocational training and professional practice in the specialty / qualification of students and monitor the satisfaction of students, managers of enterprises - places of practice and employers	+			
42	Management of the EP should ensure the implementation of the results of practical achievements of teachers in the educational process			+	
TOTAI		9	12	3	
	Standard "Teaching staff and the effectiveness of teaching"				
43	To implement educational programs, management of the EP should attract practitioners and determine the proportion of disciplines they read	+			
44	Management of the EP should motivate the teaching staff to constantly apply innovations in the educational process		+		
45	Management of the EP should demonstrate the compliance of the human resources of the teaching staff with the specifics of educational programs	+			
46	The TVE organization must demonstrate the availability of information about the teaching staff to the public	+			
47	Management of the EP should ensure monitoring of the teaching staff, a comprehensive assessment of the quality of teaching			+	
48	The workload of teachers should include various activities. Management of the EP should demonstrate evidence of the fulfillment of all types of planned workload by teachers		+		

49	Management of the EP should provide targeted actions for the development of young teachers			+	
50	Management of the EP should demonstrate mechanisms for stimulating teachers and workers professional and personal development		+		
51	Management of the EP should ensure monitoring of the satisfaction of the teaching staff		+		
52	Management of the EP should demonstrate the IT competence of the teaching staff, the use of innovative teaching methods and forms		+		
53	An important factor is the participation of the teaching staff in the life of society	+			
TOTA	L	4	5	2	
	Standard "Students"				
54	Management of the EP should demonstrate the policy of forming a contingent of students of EP and the transparency of its procedures	+			
55	Management of the EP should demonstrate awareness of the main roles of students (professional, social) based on learning outcomes	+			
56	An important factor is the possibility of professional certification of students in the field of specialization in the learning process		+		
57	An important factor is the availability of programs to support gifted students.		+		
58	Management of the EP should make every effort to provide graduates with job placement and keep in touch with graduates		+		
59	An important factor is monitoring the employment and professional activities of graduates	+			
60	Management of the EP should encourage students actively to self- study outside the main program (as part of extracurricular activities)		+		
61	Management of the EP should provide students with the opportunity to express and exchange opinions	/			
62	Management of the EP should create a mechanism for monitoring students' satisfaction with the work of the TVE organization in general and individual services in particular		+		
63	Management of the EP should demonstrate the functioning of the feedback system, including the prompt reporting on the results of learning outcomes assessment	+			
TOTA	L	5	5		
	Standard "Resources used in the implementation of educational pro-	gram	ıs"	_	
64	Management of the EP should ensure that students receive the maximum possible amount of structured, organized information on the subjects taught: for example, presentation materials, lecture notes, compulsory and additional literature, practical assignments, etc.	+			

65	Training equipment and software used to master educational programs should be similar to those used in relevant spheres and meet the safety requirements for operation	+			
66	The organization of TVE creates a learning environment that promotes the formation of basic and professional competencies and considers the individual needs and opportunities of students		+		
67	The organization of TVE should create conditions for the development of applied skills of students and teaching staff in the studied disciplines and the possibility of implementing these skills in contests and competitions or in some other way in practice		+		
68	The organization of TVE should assess the dynamics of the development of material and technical resources and information support of EP		+		
69	In the organization of TVE, an educational environment for the EP should be created, which includes:				
69.1	technological support for students and teaching staff in accordance with the specifics of the educational program		+		
69.2	academic accessibility - students have access to personalized educational resources	+			
69.3	academic advice – availability of personalized educational resources that help students	+			
69.4	career guidance- availability of personalized educational resources that assist in choosing and achieving career paths	+			
69.5	the required number of classrooms equipped with modern technical training facilities that meet sanitary and epidemiological standards and requirements		+		
69.6	the required number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in there		+		
69.7	book fund, including the fund of educational and methodical literature on paper and electronic media, periodicals in the context of the languages of instructions		+		
69.8	free access to educational Internet resources	+			
70	Management of the EP should determine the degree of implementation of information technologies in the educational process of EP, monitor the use and development of innovative teaching technologies by the teaching staff, including on the basis of ICT		+		
71	Management of the EP should provide information concerning EP through the web resource	+			
TOTAL			8		
The Standard "Standards in view of Individual Specialties"					
Education					

72	Educational programs in the discipline of "Education", such as "Preschool education and training", "Organization of educational work (by level)", "Primary education", etc. must meet the following requirements:		
72.1	Management of the EP should demonstrate that the graduates of the program have practice-oriented knowledge in the field of psychology and skills in the field of communication, analysis of personality and behavior, methods of preventing and resolving conflicts, motivating students		
72.2	Management of the EP should demonstrate the literacy of the graduates of the program in the field of information technologies that meet the requirements of the educational sector, the widespread use of information and communication technologies in educational institutions		
72.3	Management of the EP should demonstrate the presence in the program of disciplines teaching the organization of the educational process, innovative teaching methods and training planning, including interactive teaching methods		
72.4	Management of the EP must demonstrate that students have the ability of formation of self-learning skills		
72.5	Management of the EP should demonstrate that it has a clear picture, substantiated with analysis and facts of which specialties (qualifications) and skills within certain specialties are in demand on the market, what is the approximate number of specialists required in the market for the specialty taught and give examples of successful employment for the most part of graduates in the specialty (qualification) in the first six months after completion of training		
	Social sciences, services, economics, business and law		
73	Educational programs in the areas of "Service, Economics and Management" and "Law", such as "Law Enforcement Activities", "Patenting", "Translation (by type)", "Tourism (by industry)", "Catering", " Social work", "Marketing (by fields)", "Finance (by fields)", etc. must meet the following requirements: EP management must guarantee students access to the most modern and relevant data (statistics, news, scientific results) in the field of specialization in paper (newspapers, statistical data collections, textbooks) and electronic media		
74	EP in the areas of "Social Sciences, Economics and Business" and "Law" must also meet the following requirements:		
74.1	goals and results of EP should be aimed at students obtaining specific skills in demand on the labor market		
74.2	Management of the EP must demonstrate that program graduates possess these skills and that these skills are truly in demand in the market		

74.3	EP should include a significant number of disciplines and activities aimed at students gaining practical experience in applying theoretical knowledge, such as industrial practice, training at enterprises, participation in lectures and master classes of practicing specialists, etc.			
	Natural and technical sciences			
75	Educational programs in technical areas, such as "Metallurgy and mechanical engineering", "Communication, telecommunications and information technology", "Production, installation, operation and repair (by industry)", "Communication, telecommunications and information technology", etc must meet the following requirements:			
75.1	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 gaining practical experience and skills on specialty as a whole and majors in particular, including:			
75.1.1	excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, etc.)			
75.1.2	conducting individual classes or entire disciplines at the enterprise of specialization			
75.1.3	the use of workshops for practical training, solving practical problems relevant to enterprises in the field of specialization, etc.			
75.2	The teaching staff involved in the EP should include practitioners with experience working in enterprises in the field of specialization of the EP.			
	Art			
76	Educational programs in the field of "Art and Culture", such as "Socio- cultural activity and folk art (by profile)", "Instrumental performance and musical art of variety show (by type)", "Painting, sculpture and graphics (by type)", "Theory of music", etc., must meet the following requirements:	7	L	
76.1	Management of the EP should demonstrate that the graduates of the program have theoretical knowledge in the field of arts, practical skills and self-expression skills through creativity, such as modeling, drawing, singing, etc.			
76.2	Management of the EP must demonstrate students' skills of self- learning and self-development, ability to work in the field of art			
76.3	The EP should include the maximum possible number of disciplines and activities in which the skills are taught to students individually or in small groups, for example, conducting master classes of distinguished workers in the field of specialization			
76.4	Management of the EP should organize for students the maximum possible number of activities that facilitate students to demonstrate their acquired creative skills, such as concerts and exhibitions			
76.5	EP should contribute to the enrichment of creative experience in different types of practical activities characteristic for the specialty			

76.6	In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills on the basis of theoretical preparation, the EP should include disciplines and activities aimed at gaining practical experience and skills in the				
76.6.1	excursions to enterprises in the field of specialization (museums,				
76.6.2	conducting individual classes or entire disciplines at the enterprise in the				
76.6.3	holding seminars to solve practical problems relevant for enterprises in				
76.7	An important factor within EP is the existence of a mechanism for peer review of creative examination papers of students				
TOTAL					
THE SUM TOTAL		28	41	13	

