



«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 the external expert commission for evaluation for compliance with the requirements of the standards of specialized accreditation of educational programs

1304000 «COMPUTER ENGINEERING AND SOFTWARE»

Qualifications: 130403 3 –technician

Qualifications: 1304043 - Technician-programmer

Qualifications: 130405 3 - information security technician

Qualifications: 130406 3 - computer service technician

1306000 «RADIO ELECTRONICS AND COMMUNICATIONS»

Qualifications: 1306093 - communication technician

PU "South Kazakhstan - Polytechnical College"

from "14" to "16" May 2018

Shymkent 2018

INDEPENDENT AGENCY OF ACCREDITATION AND RATING
External expert commission

Addressed to
Accreditation
advice of the
IAAR



Независимое агентство
аккредитации и рейтинга

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(I) LIST OF SYMBOLS AND ABBREVIATIONS

EEC – external expert commission;
SCSE - state compulsory standard of education;
PU – public utility;
ICT - information and communication technologies;
MES – Ministry of Education and Science;
IAAR -Independent Agency of Accreditation and Rating;
EP – Educational program;
TS – Teaching Staff;
RK - Republic of Kazakhstan;
WC - working curriculum;
MM – Mass Media;
LP - Limited Partnership;
TVE – technical and vocational education;
MC - model curriculum;
SKPC– PU "South Kazakhstan - Polytechnical College"
ALPPQ - Assessment of the level of professional preparedness and qualification
ACS - Automated control system
LBC - library and bibliographic classification
HEI - Higher educational institution
IAT and RES – Institute for Advanced Training and Retraining in the Education System
CYA – Committee on Youth Affairs
SCC- subject-cycle commission
RSE – Republican State Enterprise
RK – The Republic of Kazakhstan
TMC - Training and methodology complex
WC- working curriculum
JD- job descriptions
DC- division clause
PC- pedagogical council
AAA – administrative and administrative apparatus
EBW – educational and bringing-up work
EIW – educational-industrial work
QMS- Quality Management System

(I) INTRODUCTION

In accordance with the order of the Independent Agency for Accreditation and Ranking No. 44-18-OD of 28.04.2018, from 14 to 16 May 2018, an external expert commission visited PU "South Kazakhstan Polytechnic College", Department of Education of the South Kazakhstan Region, with the aim of conducting procedures for assessing compliance with the standards of institutional and specialized accreditation of the IAAR.

The report of the external expert commission (hereinafter referred to as "the EEC") contains an assessment of the conformity of the South Kazakhstan Polytechnic College to the Education Department of the South Kazakhstan region to the criteria of the IAAR standard, the recommendations of the EEC for further improvement of the work.

The composition of the EEC:

Chairman of the Commission– Tatibecov Sanzhar Meirkhanovich, Head of Strategic Development and Monitoring Department NJSC Holding «Кәсіпқор»(Astana city);

Foreign expert–Tairrov Mitalip Muratovich, Doctor of Physics and Mathematics, Professor of Batken State University (Kyzyl-Kya city, Republic of Kyrgyzstan);

Expert – Beisetbayev Asylkhan Kosylkhanovich, Deputy Director for Academic Affairs PU «Almaty State Polytechnic College»(Almaty city);

Expert–EnkenovBauyrzhanBolatkhanovich, Deputy Director for Innovation Technologies PU "Taldykorgan College of Industrial Industry and New Technologies" (Taldykorgan city);

Expert – Nurzhan Nurly Nurzhanovna, заместитель Deputy Director for Academic Affairs PU "Atyrau Polytechnic College named after S. Mukashev" (Atyrau city);

Expert – Tugerova Galiya Berdibayevna, Deputy Director for Scientific and Methodological Work PU Mangistau Energy College (Aktau);

Expert – Zhubandykova Zheniskul Umirtayevna, Candidate of Technical Sciences, the teacher of special disciplines of Aktyubinsk Polytechnic College (Aktobe);

The observer for the Agency – Bekenova Dinara Kairbekovna, project manager for accreditation of organizations TPE IAAR (Astana city);

The employer – Tursynbekova Madina Tausultanovna, Head of the Human Capital Department of the Regional Chamber of Entrepreneurs of the SKO (Shymkent city);

Student – Rakhymbai Aiken Sakenkyzy, student of the second year of specialty 1202000 "Organization of transportation and traffic management in transport (by industry)" SCC "Shymkent College of Transport, Communications and New Technologies" (Shymkent).

(II) REPRESENTATION OF THE ORGANIZATION OF EDUCATION

State Public Utility Company South Kazakhstan Polytechnic College »The Department of Education of the South-Kazakhstan region (hereinafter - SKPC) was founded in 1934. Since in 1934, as part of the industrialization of the Soviet Government, the Shymkent Mining and Metallurgical College was established. In different years SKPC was transformed.

SKPC is organized on the basis of the decision of the Akimat of the South Kazakhstan Oblast on June 18, 1997, decision No. 140, by merging the South Kazakhstan College of Energy and Business (1971) and the Shymkent Polytechnic College.

The activity of the JCC is carried out on the basis of the Charter approved by the resolution of the akimat of the South Kazakhstan region dated January 23, 2015 No. 13, a certificate of state re-registration of the legal entity dated April 13, 2016, issued by the Justice Department of the South Kazakhstan Oblast, and also in accordance with the Education Law of the Republic of Kazakhstan On July 27, 2007, No. 319-III, The standard rules for the activities of organizations of technical and vocational education, approved by the Government of the Republic of Kazakhstan dated May 17, 2013, order No. 499, the State Compulsory Education Standards for Teachers (hereinafter - the State Educational Standard), the State Program for the Development of Education and Science of the Republic of Kazakhstan for 2016-2019 and other normative - legal acts regulating the system of technical and vocational education.

The owner of SKPC is the Akimat of the South-Kazakhstan region. The authorized agency of SKPC is the Education Department of the region. The form of ownership is state property.

SKPC operates on the basis of license No. KZ16LAA00006897, issued by the Department for Control in the Education Sector of the South Kazakhstan Region on 25.04 May 2016, without a limitation period.

A confirming document on the availability of its own educational material and technical base is the State Acts for the right to permanent use of land.

In 2013, SKPC successfully passed the State Attestation and confirmed the State License for Qualified Specialties (Order of the Department for Control in the Education Area of the South Kazakhstan Region No. 751/18 of 18.11.2013).

SKPC implements programs of technical and vocational education (hereinafter - TVE), which allow students to acquire practical skills in related specialties of vocational and technical education.

2007 SKPC received the Certificate of Conformity (QMS) with regard to the provision of services in the field of technical and vocational education. In 2017, SKPC passed the procedure of recertification and received the Certificate of Compliance with the requirements of ST RK ISO 9001-2016 (ISO 9001: 2015) "Quality Management Systems. Requirements ", No. 00069153 (valid until December 26, 2020).

The college carries out the training of a middle-level specialist in demand for the country's economy.

The college conducts training in 7 specialties of TVE:

Code and name of Specialty	Code and name of Qualification	Term of training based on 9th grade	Term of training based on 11th grade
0819000 – "Technology of oil and gas processing"	081907 3 Technician-technologist	3 y. 10 months	2 yrs. 10 months.

0911000- "Technical operation, maintenance and repair of electrical and electromechanical equipment"	091101 3 electro mechanics	3 y. 10 months.	2 y. 10 months.
0902000 - "Power Supply" (by industry)	090203 3 technician-electrician	3 y. 10 months.	2 y. 10 months.
1302000 - "Automation and control"	130202 Electro mechanics	3 y. 10 months.	2 y. 10 months.
1304000 - "Computers and software"	130403 3 technician 130404 Three technician-programmer 1304053 - Information Security Technician 130406 3 computer service technician	3 y. 6 months. 3 y. 10 months. 3 y. 10 months. 3 y. 10 months.	2 y. 6 months. 2 y. 10 months. 2 y. 10 months. 2 y. 10 months.
1306000 - "Radioelectronics and communications" (by types)	130609 3 communication technician	2 y. 10 months.	1 y. 10 months.
0906000 - "Heat power plants of thermal power plants"	090603 3 energy technician	3 y. 10 months.	2 y. 10 months.

Also, the college has a license in the following specialties: 0813000 "Tire production and vulcanization process", 0812000 "Rubber-technical production", 0802000 "Construction and operation of oil and gas pipelines and gas storage", 0907000 "Heat engineering equipment and heat supply systems". However, according to the specialties training is not conducted due to the lack of applications from employers and at the moment the SKPC plans to refuse a license in the above-listed specialties.

At the end of 2017, the college received a license for work qualifications in the specialties: 1302000 - Automation and Control, 1302012 - Instrument for Control and Automation, 0819000 - Technology of Oil and Gas Processing, 0819012 Operator of Technological Equipment, 1304000 - Computing Machinery and software ", 1304012" Computer operator ", 1306000 - "Radio electronics and communications "(by types), 1306052" Cable man and communications installer ". In the future, the college plans to train personnel on a two-tier model, i.e. with assignment of the expert of an average link and working qualification.

Training is conducted on full-time and part-time forms of education, the languages of instruction are state and Russian.

The total contingent for the college as of September 1, 2017-2018 of the curriculum was 2512 people, 1780 by state order, 732 on a commercial basis.

To realize the mission of the college, the purposeful achievement of strategic goals and objectives, the provision of quality educational services and the implementation of effective activities, the college has all the necessary infrastructure of modern material and technical resources and highly qualified engineering and pedagogical staff.

At the time of verification, the college's IPR is 205 employees, the percentage of full-time teachers is 100%. The qualitative composition of the IPR is 48.2% (54 teachers have the highest qualification category, 45 - the first category).

The college has the appropriate material and technical base: it is a three-story educational building with more than 66 offices and laboratories, which have 15 computer classes, a study room, an assembly hall for 336 seats, a library with a reading room for 80 people, a gym, a dining room for 150 people, medical center, laboratory and production building with 4 workshops: mechanical and mechanical, electrical installation and electrical.

In college there are 6 language laboratories, 25 classes with interactive whiteboards, 30 multimedia cabinets, as well as a robotics cabinet with 8 sets. Computer classes are equipped with 430 computers of the latest modification. The college is connected to the Internet, has a good base of electronic office equipment, and also operates a Wi-Fi network.

All the classrooms are equipped and equipped with the necessary technical means of teaching, visual aids, and the library - educational methodological and scientific literature.

In accordance with the QMS, the structure of the college includes: 7 departments with full-time and part-time forms of training and 13 departments (cyclic commissions), educational, production, educational and methodological and service to information technologies, as well as economic activities and material and technical service.

For the years of work of the college tens of thousands of specialists have been issued, who have applied their professional qualities in various branches of the production sphere.

The College carries out training of specialists in close cooperation with the main employers of the region and the region: Petro-Kazakhstan Oil Products LLP, HILL Corporation LLP, JSC "3-Energo center", LLP Automation Instrument Remservis, LLP "ShSP" Avtomatprom", LLP "AzalaTextile", LLP "TectumEngineering", JSC "Shymkent signal and communication distance", Service LLP Joint-stock company "Transtelecom", Shymkent Department of Internal Policy "Youth resource center", Joint-stock company "NIC", LLP "Ontustik Zharyk Transit", LLP "Energotok", LLP "Electric equipments", Joint-stock company "Shymkent Airport", "Қуатжылуорталық" ГКП, "Kazakhstan Temir Zholy" National Company, "Alma TV" LLP, Joint-stock company "ELMO", "Berkut IT", "Pro-IT Kazakhstan" and others. The college has a contract with more than 80 enterprises. All this allows you to build work on the preparation and distribution of graduates directly with consumers.

The indicators of employment reflect a positive trend, which indicates the demand for college graduates and the good quality of training specialists. Employment of graduates of the full-time department is 85% (533 people, 455 of them are hard-working).

The main sources of information on the activities of the Higher College are: the official website www.ukpk.kz.

(II) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

State Public Utility Enterprise South Kazakhstan Polytechnic College »The Education Department of the South-Kazakhstan region for the first time undergoes the procedure of specialized accreditation of TVE organizations.

(II) DESCRIPTION OF THE VISIT OF THE BEC

The visit of the WEC to the YUKPK was organized in accordance with the program, agreed in advance with the chairman of the EEC and approved by the director of the college, from May 14 to May 16, 2018.

In order to coordinate the work of the EEC in SKPC, an installation meeting took place, during which the powers were distributed among the members of the commission, the schedule of the visit was specified, and agreement was reached on the choice of methods of examination.

The meetings of the EEC with the target groups were held in accordance with the updated program of the visit, with observance of the established time interval. On the part of the staff of the SKPC, the presence of all persons indicated in the program of the visit was ensured, as well as full support for the actions of experts.

During the visit, in addition to working with target groups, there were conversations with students and teachers of the college in classrooms, graduates, parents and employers (Table 1). In total, 348 people took part in the meetings.

Table 1 Information on employees and students and other persons who participated in meetings with the EEC IAAR:

Category of participants	Number
Director	1
Deputy of director	5
Head of department / academic unit	8
Chairman of the Department / Methodological Association	13
Methodist	1
Chief accountant / economist	2
Head of Human Resources Department	1
Teachers and Masters of Industrial Training	75
Other workers (lawyer, social psychologist, psychologist, executive secretary of the admissions committee, head of the medical unit, librarian)	6
Student	108
Graduate	65
Social Partner	21
Parents of students	42
Total	348

During the work of the EEC, a visual inspection of the college infrastructure was carried out: classrooms, laboratories, workshops, computer classes, a library, a reading room, a gym, a medical center, a hostel, canteens and others.

The SKPC practice bases were also visited, including the accredited programs: LLP Shopping Center Evrika, KazTilDamu LLP, Shymkent Distance and Alarm Systems JSC, Kazteleradio JSC.

During the conversation, representatives of enterprises told about the process of passing professional practice, on the selection of candidates for vacant jobs. Members of the EEC noted the passive work of the practice leaders from the college, as in the case of the 555 trainees of the specialty 1306000 "Radioelectronics and communications" in the number of 7 people, there were no diaries on the passing of the training practice, and the heads of practice from the enterprises noted the weak practical training in the specialties.

EEC members attended training sessions, including all accredited educational programs. In particular, the lesson is attended: in group 4052 (specialty 1304000 "Computer equipment and

software" qualification 1304063 technician for the maintenance of computer devices), on the training practice "on installation and configuration of home office security." Practitioner вел в 1 подгруппе Musalieva R.K. , and Mamyrbekova A., the topic of practical work "Programming for work in the Lanterns (Lan Wan)" was made every eleven people in each of the subgroups. In the group 453 (specialization 1304000 "Computer and Software Engineering" qualification 1304033 technician), according to the practice of "Peripheral Devices PEMM". Practitioner вел в педагогической преподаватель Nalibaev MS, the topic of practical work «Printers Laser, ink nozzle and matrix printers. Maintenance and repair of the printer» 12 people participated in the podium.

The project was part of the technical equipment (projector, computer and peripheral equipment). Students are actively taking part, ie. they went into practical exercises, and addressed the questions. The program was fully enforced by the plan. Students are actively involved in the process of writing the actual and actual essays and content of the process, but the members of the EEC have enrolled the students in practical training, as well as in the use of specialized and resource-specific resources equipment and installation of peripheral devices. Analyzing the history of the college was a very successful pedagogical college and the theoretical level of teaching.

The office is equipped with multimedia equipment (projector, screen, speakers). In general, students actively took part in the classes, ie. carried out practical tasks, answered questions, and discussed. The programs fully corresponded to the plan of the classes. In general, the analysis of attendance attests to a good quality teaching staff, a sufficient theoretical and practical level of training, but nevertheless in some situations improvement is required

The EEC experts also studied the documentation of the college, including departments, departments that implement accredited educational programs for compliance with the standards of specialized accreditation.

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

As part of the planned program, the primary key recommendations for improving the activities of the college, developed by the EEC on the results of the examination, were presented at a meeting with the leadership of the college. The college leadership at the final meeting was explained about the follow-up procedures.

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

A detailed analysis of the conformity of the activities of the SKPC to the standards of specialized accreditation of the IAAR enabled the EEC to make the following conclusions in the context of the standards of the program of visiting the college.

(VI) CONFORMITY TO THE SPECIALIZED ACCREDITATION STANDARDS

6.1. Standard "Management of the educational program"

The educational programs of the accredited programs of the specialty 1304000 "Computer technology and software" and 1306000 "Radio electronics and communications" are developed in accordance with the requirements of SCSE Republic of Kazakhstan and standard curricula and educational programs. The OPs include a work curriculum, work curricula, calendar-thematic plans, curricula and professional practice programs in accordance with the curriculum schedule, teaching and methodological complexes for the WEP disciplines.

All these documents were submitted for inspection to the members of the EEC. The OPs are aimed at fulfilling the mission of the college for the training of highly qualified professionals and has sufficient resources: the staff with a basic vocational higher education, the material and technical base, the list of consultations and electives meet the requirements of SCSE of the Republic of Kazakhstan.

Strategic educational activities are adequate and reflected in the planned, accounting documents of the college.

The content of accredited EP corresponds to the SCSE and other NPA of the Republic of Kazakhstan in the field of TVE and guarantees the sufficient quality of training of a specialist who is responsible for the mission of the college and the needs of employers.

The members of the EEC noted that information on educational programs and decisions taken is communicated to the pedagogical staff, but passive informing of interested persons (stakeholders) is carried out.

Information on educational programs and decisions taken is communicated to interested persons, at management meetings with trainees, management interviews in the mass media.

The accredited departments that carry out the issuance carry out planning, implementation, monitoring and evaluation (monitoring), analysis to improve the quality of their activities in the implementation of educational programs on the basis of developed and documented procedures. Monitoring includes tracking of all types of training and production activities, including excursions, laboratory work, and practical classes.

The organization demonstrates the development and implementation of a strategic plan for the development of the college. In this process, students, pedagogical staff and interested persons participate. Based on interviews, questionnaires revealed sufficient awareness of stakeholders about the content of plans and the results of its implementation. On the college's website, as an information source, the mechanisms for introducing innovative approaches and interactive forms of teaching by teachers are not sufficiently disclosed. When talking with employers on the practice bases, practitioners noted the passive involvement of college representatives in the revision of the EP and the introduction of changes in the improvement of the quality of education, taking into account the specifics of the realities of today's production. Mastering of general competencies covers: general education, social and ethical competencies, economic and organizational and managerial competencies; readiness to fulfill social, economic, professional roles, geographical and social mobility in accordance with the level of education. Special competencies are acquired by trainees during the study of special subjects, protection of course projects, educational, technological and pre-diploma practices.

The questionnaires of teachers showed 64.3% good and 35.7% excellent satisfaction with the content of teachers' needs and 1.8% relatively poorly, 67.9% well and 30.4% reflecting the mission and college strategy in innovative programs.

By strong parties EP are:

- it is an orientation of the educational programs on satisfaction of necessities of the interested persons and students;
- it is a presence of material well-being of adequacy EP present resources, to the necessities of labour-market and educational politics of RK;
- the system of management of quality is inculcated on the basis of requirement of standard of ISO 9001-2016;
- presence and effective functioning of the system of informing and feedback oriented on trainees, employees and interested persons;
- measuring the degree of satisfaction of the needs of the teaching staff, staff and trainees, and demonstrate evidence of the elimination of deficiencies found in the measurement process;
- Demonstration of evidence of openness and accessibility for students, teachers, parents.

EEC recommendations

- to improve work on the coordination of the OP with employers in the context of professional practices and special disciplines;
- the pedagogical staff and the methodical cabinet to systematize the work on updating the content and analyzing the effectiveness of changes in educational programs, taking into account the interests of stakeholders;
- the leadership of the OP to improve the mechanisms for the continuous improvement of the organization's activities on the basis of the results of studying and analyzing the satisfaction of the needs of teachers, staff, trainees and employers.

Conclusions of the EEC by the criteria: The specialized profile for this standard contains 8 strong positions, 11 satisfactory and 3 positions require improvements.

6.2. Standard "Specificity of the educational program"

The expert group analyzed the working curricula and programs to improve their content. WEP are coordinated with the social partners of the college and correspond to the TEP and requirements of the SCSE of the Republic of Kazakhstan. Educational work in the college is conducted in accordance with the regulatory legal acts on the organization of the institutions of TVE MES RK. Pedagogical load of teachers does not exceed 1.5 bets. 1080 hours and is allocated in accordance with basic education, work experience and qualification category.

The specific nature of the EP in each specialty determines the tasks for training a specialist who is able to perform the tasks assigned to him when working at various enterprises of the relevant industry. The EP demonstrates the graduate model, which has basic and professional competencies.

In accordance with the SCSE of TVE, one of the mandatory forms of control is a course project, during which the training is given to the application of the acquired knowledge, skills and competencies in solving complex problems related to the sphere of professional activity of future graduates.

Members of the WEC were examined course papers and projects, according to the curriculum for all accredited educational programs. Projects are mainly research and do not include the principles of project development. The topic of the course projects requires updating taking into account modern peripherals and software.

The final stage of the training of specialists is the final attestation, which consists of two stages:

Stage 1: Specialty 1304000 "Computer Science and Software" provides for the protection of diploma projects, where the final work of the student of the graduate of 2017 - Absattar BA was especially noted. on the topic "PHPweb language" attaches multimedia "electronic books", and specialty 1306000 "Radio electronics and communications" conducting a comprehensive exam

in the disciplines: 1. Digital switching systems; 2. Management complexes of telecommunications; 3. Digital communication networks.

2 stage of passing the PAM (assessment of the level of professional preparedness)

The members of the EEC examined the reports of the chairmen of the final certification and qualification commission, where positive responses and recommendations for improving the quality of education were recorded. Monitoring of the passage of graduates from the OUPP was 100% passable. Also, after examining the protocol of the final certification by the EEC members, it was revealed that the punctures were not in compliance with the requirements of the order of the Ministry of Education and Science of the Republic of Kazakhstan № 502 of October 23, 2007 "On approval of the form of strict reporting documents used by educational organizations in educational activities".

Student questioning conducted during the visit of the IAAR EEC showed that:

-89.7% of students are satisfied with the support, training materials in the learning process;

-88.5% of students are satisfied with the existing academic resources of the college;

-92.3% of students are satisfied with the overall quality of the training programs;

-88.5% of students are satisfied with the methods of teaching in general.

Strengths are:

the availability of a professional context in the content of the training disciplines;
the management of the EP ensures the existence and effective functioning of the system of individual assistance and counseling of students on the issues of the educational process;
leadership creates the conditions for the effective development of the EP;
the management of the EP demonstrates the availability of a monitoring system for the achievements of students;

transparent processes and criteria for evaluating learning outcomes;

the leadership of the EP ensures the formation of the students' skills for continuing education at the following educational levels;

EEC recommendations - to ensure the systematic development, implementation and effectiveness of active teaching methods and innovative teaching methods in the specialty 1304000 - "Computer Science and Software"; - conduct an internal audit of all business processes for compliance with the regulatory and legal acts of the TVE system, including the keeping of the journal of accounting for theoretical and industrial training. - continue the work on replenishment of the library fund with educational, methodological and scientific literature in the state language in the context of accredited specialties (including the author's developments of the teachers of the college).

Conclusions of the WEC by the criteria: The specialized profile for this standard contains 6 strong positions, 15 satisfactory and 3 positions require improvements.

6.3. Standard "Pedagogical collective and teaching effectiveness"

Personnel policy is carried out in accordance with the main priorities. The development strategy of the college corresponds to the modern trends in the field of work with human resources. The recruitment and distribution of duties is carried out in accordance with the qualification characteristics of the positions of employees of the TVE organization.

The need for accredited vocational training in the professional-qualification level of the teaching staff is determined by the direction of the training of students, licensing requirements. For the implementation of accredited EP, persons with a professional education of the appropriate profile are involved, the level of qualification of which corresponds to the specifics of the accredited EP. All teachers have a basic education corresponding to the subjects taught. The selection and

recruitment of PPP is carried out according to the results of the competition, in accordance with the education and practical experience for vacancies.

In general, the EP is staffed by qualified teaching staff, according to the staff schedule for the entire period of study. In order to motivate the pedagogical staff and to improve the effectiveness of the educational process and improve the quality of teaching teachers, the college holds the "Best Teacher" concourse every year. In the current academic year, the teacher of CCC "Programming and AS" Tasbulatova Aliya Altaevna participated in this competition and took the second place, having received a certificate for the amount of 125 000 tenge.

To improve the quality of teaching, to ensure a close relationship with the production process, specialists with experience in the sectors are involved in the training process, however, in order to improve the implementation of the OP, it is necessary to determine the mechanisms for internship at the enterprises of social partners.

The leadership of the EP demonstrated the adequacy of the staff potential of the teaching staff of the specifics of the EP. The management of the EP motivates teachers of specialties in applying innovations in the educational process, the main condition for the implementation of which is the availability of specialists who know the technical capabilities of computers that have the skills to work with them, clearly comply with the sanitary norms and rules for the use of computers.

Taking this into account, the paramount task was to increase the computer literacy of teachers, mastering them to work with software education complexes, resources of the global computer network Internet. Information on the qualifications of the teaching staff can be obtained on the website (ukpk.kz in the section of the pedagogical team), which is available at any time of the day and at information stands of the relevant cyclic commissions.

The questionnaires of teachers, conducted during the visit of the IAAR EEC, showed that 100% of teachers believe that the work on raising the qualifications of the IPR is effective. 100% of teachers assess the adequacy of recognizing the potential and abilities of teachers and believe that all are given equal opportunities.

Strengths are:

- conformity of the personnel potential of the teaching staff to the specifics of educational programs;
- the workload of teachers includes various activities;
- the leadership of the EP demonstrates the evidence of the teachers' fulfillment of all types of planned workload;
- monitoring the satisfaction of the teaching staff;
- The pedagogical collective actively participates in the life of society.

EEC recommendations

- for the implementation of educational programs, the management of the college should attract specialists from production and determine the proportion of the disciplines they read, both in college and in industry;

- The management of the EP should demonstrate the IT competence of the teaching staff, the use of innovative methods and forms of training, for this it is necessary to systematize the work on the introduction of modern information technology and innovative teaching methods based on monitoring and evaluating the effectiveness of their use;

- the management of the EP should ensure the internship of the IPR on the basis of the enterprise of social partners to improve the quality of the implementation of the OP on the specialty 1304000 - "Computer Science and Software", 1306000- "Radio electronics and Communication".

Conclusions of the EEC by the criteria: The specialized profile for this standard contains 5 strong positions, 5 satisfactory and 1 position require improvements.

6.4. Standard "Learners"

The policy of forming a contingent of students is as follows. Admission of documents to the college is carried out on the basis of the "Model Rules for Admission to Education" of 19.01. 2012. №130. Admission documents for full-time education is carried out from June 20 to August 20, correspondence - from June 20 to September 20. Applicants who have provided a comprehensive testing certificate or a certificate of SNT results are exempt from entrance examinations and are allowed to compete. The form of entrance exams is testing. Students entering the college take entrance examinations - testing in Kazakh or Russian. Test results are announced on the same day. In order to comply with common requirements and resolve disputes in the entrance examinations in subjects, as well as protect the rights coming in college, an appeal committee is created.

Enrollment in the students is carried out on a competitive basis for the full-time form of training from August 25 to August 30, on correspondence - from September 1 to September 31. Admission to the college is carried out at an open meeting of the admission committee separately in the specialties and languages of instruction.

For the adaptation of the trainees, a career guidance week is held, an introductory lesson on the knowledge assessment system, assessment rules, introductions to the departments, rules of procedure and the charter of the college, college and student organizations of the local government, library mode, reading room and subscription.

Teachers of the college at the beginning of the academic year conducted an entrance control among students 1 and 2 courses in order to determine the level of mandatory training for the student at the beginning of the academic year. Verification of the achievement of the level of compulsory training of students is conducted with the help of the assignment of the mandatory level for the passed academic year. The input control is carried out in the form of testing. Assignments are made by teachers of disciplines according to the TAP for the previous academic year, are considered at the meeting of the CMC and approved by the deputy head for SD.

The educational process in the SCPC is organized in accordance with the requirements of the SCSE of the Republic of Kazakhstan, which is the basis for scheduling the educational process, the schedule of classes, the schedule of elective classes, working curricula, CTP and other training and methodological documentation. When compiling these documents, they are guided by the "Rules of Internal Work Order", "Rules of Internal Regulations for Students", "Rules for the Transfer and Restoration of Students," "Rules for Conducting Progress Monitoring, Intermediate and Final Certification of Students," "Rules for keeping the student's progress book," "Instructions on the schedule of training sessions."

The collected data in the process of questioning indicate that the majority of students (97.5%) are satisfied with the methods of education in general, and 98.7% of the students surveyed are satisfied with the overall quality of the curriculum, and 94.9% with the quality of teaching. The quality of the services provided in libraries, reading rooms is 100% satisfied.

At present it is necessary to introduce modern forms of career guidance work using information and communication technologies.

The survey of students, conducted during the visit of the IAAR, showed the following:

-100% are satisfied with the availability of computer classes and Internet resources. -94.8% are satisfied with the fairness of examinations and attestation.

Strengths are:

- the existence of a policy for the formation of a contingent of students of the OP and the transparency of its procedures;
- availability of monitoring of employment and professional activities of graduates;
- active stimulation of students to self-education outside the main program (in the framework of extracurricular activities);
- providing opportunities for students to exchange and express opinions.

EEC recommendations:

- to formalize the work on supporting and developing various types of gifted students (intellectual, creative, sports, etc.);
- to improve the model of the graduate of educational programs taking into account the competencies, as close as possible to the conditions of their future professional activity;
- the leadership of the EP to intensify the work on providing graduates with employment and maintaining communication with them.

Conclusions of the EEC by the criteria:

The specialized profile for this standard contains 3 strong positions, 7 satisfactory positions.

6.5. The standard "Resources used in the implementation of educational programs"

When examining the base of the SCPC, it is established that the college has the necessary resource for the implementation of accredited educational programs.

All audiences and production facilities comply with sanitary standards. Safety requirements are regulated by the State Standard of the Republic of Kazakhstan on the observance of the rules of safety, the preservation of health and life of citizens, environmental protection when using equipment. All buildings and facilities of the college comply with sanitary and safety regulations. Annually, by the beginning of the new academic year, repairs and training of classrooms, a laboratory and a training ground are carried out. The number of cabinets and computer rooms corresponds to the requirements of the State Educational Establishment for specialties.

The educational and production base for specialties 1304000 - "Computer technology and software", 1306000- "Radio electronics and communications", allow to synthesize theoretical knowledge, skills and skills in the process of practical training, to introduce students into the circle of real problems.

Strengths are:

- compliance of the material and technical base of the college with existing educational programs;
- conditions for the development and use of information and communication technologies by workers, teachers and students in the educational process and the activities of the college have been created;
- the necessary number of classrooms equipped with modern technical training facilities that meet sanitary and epidemiological standards and requirements;
- the necessary number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in them;

EEC recommendations

- to continue the introduction of specialized licensed software into the educational process of the college, including the educational programs implemented by the college;

- to replenish the book fund with educational and methodological literature and manuals, as well as electronic textbooks in the state language;
- continue work on modern technological equipment of laboratories, training ranges, workshops taking into account the requirements of production and compliance with the condition of safety engineering;

Conclusions of the EEC by the criteria: The specialized profile for this standard contains 5 strong positions, 10 satisfactory positions.

6.6. Standard "Standards in the context of individual specialties"

Natural Sciences, Engineering Sciences, and Technology

Professional practice is an integral part of the basic vocational training curriculum and an effective form of professional training of highly qualified personnel in technical and service work in professional activities.

In accordance with the NPA and the State Educational Establishment of the Republic of Kazakhstan, educational work is organized in the college, including professional practice in all accredited specialties. The program of practices is coordinated with the social partners of the college and fulfills the set goals of the EP, which allows student trainees to more clearly represent the future professional activity, and the masters of industrial training and teachers properly instill skills of professional competence.

All these factors reinforce the practice of orientation of teaching in the college, facilitate the adaptation of graduates in further work.

Bases of practices correspond to the professional activity of students and implemented by the EP. Terms of production technological and pre-graduation practices are drawn up in accordance with the schedule of the educational process that are approved by the director of the college.

EEK notes that the SKPC on this standard pays special attention to such positions as:

- in order to familiarize students with the professional environment and current issues in the field of specialization, as well as to acquire skills on the basis of theoretical training, the education program includes disciplines and activities aimed at obtaining practical experience and skills in the specialty in general and in the relevant disciplines in particular;

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

The Commission recommends:

- continue work on conducting excursions to enterprises in the field of specialization;
- the management of the EP to create conditions for attracting practitioners with experience working at enterprises in the field of EP;
- to systematize the development and coordination of the themes of diploma and course projects as real diploma projects.

Conclusions of the WEC by the criteria: The specialized profile for this standard contains 3 satisfactory positions, 2 positions need improvement.

(II) REVIEW OF STRONG SIDES / BEST PRACTICES FOR EVERY STANDARD

- the orientation of educational programs to meet the needs of interested persons and students;
- Availability of the adequacy of the OS with the available resources, the needs of the labor market and the educational policy of the Republic of Kazakhstan;
- a quality management system was introduced based on the requirements of ISO 9001-2016;
- the existence and effective functioning of a system of information and feedback oriented to learners, employees and stakeholders;

- measuring the degree of satisfaction of the needs of the teaching staff, staff and trainees, and demonstrate evidence of the elimination of deficiencies found in the measurement process;
- Demonstration of evidence of openness and accessibility for students, teaching staff, parents; the availability of a professional context in the content of the training disciplines;
- the management of the EP ensures the existence and effective functioning of the system of individual assistance and counseling of students on the issues of the educational process;

- leadership creates the conditions for the effective development of the EP;
- the management of the EP demonstrates the availability of a monitoring system for the achievements of students;
- transparent processes and criteria for evaluating learning outcomes;
- the leadership of the EP ensures the formation of the students' skills for continuing education at the following educational levels;
- conformity of the personnel potential of the teaching staff to the specifics of educational programs;
- the workload of teachers includes various activities;
- the workload of teachers includes various activities;
- the leadership of the OP demonstrates the evidence of the teachers' fulfillment of all types of planned workload;
- monitoring the satisfaction of the teaching staff;
- the pedagogical collective actively participates in the life of society;
- the existence of a policy for the formation of a contingent of students of the OP and the transparency of its procedures;
- availability of monitoring of employment and prof. activities of graduates;

- active stimulation of students to self-education outside the main program (in the framework of extracurricular activities);
- providing opportunities for students to exchange and express opinions; - compliance of the MTB college with existing educational programs;
- conditions for the development and use of information and communication technologies by workers, teachers and students in the educational process and the activities of the college have been created;
- the necessary number of classrooms equipped with modern technical training facilities that meet sanitary and epidemiological standards and requirements;

- the necessary number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in them;
- disciplines and activities aimed at obtaining practical experience and skills in the specialty in general and profiling disciplines in particular;
- the use of laboratories for practical classes, solving practical problems relevant to enterprises in the field of specialization, etc.

(II) REVIEW OF THE RECOMMENDATION FOR IMPROVING QUALITY

Standard "Management of the educational program"

- to improve work on the coordination of the EP with employers in the context of professional practices and special disciplines;
- the pedagogical staff and the methodical cabinet to systematize the work on updating the content and analyzing the effectiveness of changes in educational programs, taking into account the interests of the stakeholders;
- the leadership of the EP to improve the mechanisms for the continuous improvement of the organization's activities on the basis of the results of studying and analyzing the satisfaction of the needs of teachers, staff, trainees and employers.

Standard "Specificity of the educational program"

- to ensure the systematic development, implementation and effectiveness of active teaching methods and innovative teaching methods in the specialty 1304000 - "Computer Science and Software";
- conduct an internal audit of all business processes for compliance with the regulatory and legal acts of the TVE system, including the keeping of the journal of accounting for theoretical and industrial training.
- continue the work on replenishment of the library fund with educational, methodological and scientific literature in the state language in the context of accredited specialties (including the author's developments of the teachers of the college).

Standard "Pedagogical collective and teaching effectiveness"

- for the implementation of educational programs, the management of the college should attract specialists from production and determine the proportion of the disciplines they read, both in college and in industry;
- The management of the EP should demonstrate the IT competence of the teaching staff, the use of innovative methods and forms of training, for this it is necessary to systematize the work on the introduction of modern information technology and innovative teaching methods based on monitoring and evaluating the effectiveness of their use;
- the management of the EP should ensure the internship of the IPR on the basis of the enterprise of social partners to improve the quality of the implementation of the EP on the specialty 1304000 - "Computer Science and Software", 1306000- "Radio electronics and Communication".

Standard "Learners"

- to formalize the work on supporting and developing various types of gifted students (intellectual, creative, sports, etc.);
- to improve the model of the graduate of educational programs taking into account the competencies, as close as possible to the conditions of their future professional activity;
- the leadership of the EP to intensify the work on providing graduates with employment and maintaining communication with them.

The standard "Resources used in the implementation of educational programs"

- to carry out work to maintain the material and technical base of the workshops and laboratories of the college for compliance with technologies used in production by social partners;
- the leadership of the EP to improve incentive mechanisms for attracting teachers from production, who have experience working at enterprises in the field of EP.

Standard "Standards in the context of individual specialties"

- continue work on conducting excursions to enterprises in the field of specialization;
- the management of the EP to create conditions for attracting practitioners with experience working at enterprises in the field of EP;
- to systematize the development and coordination of the themes of diploma and course projects as real diploma projects.



(II) REVIEW OF THE RECOMMENDATION ON THE DEVELOPMENT OF THE ORGANIZATION OF EDUCATION

Evaluation table "SPECIALIZED PROFILE PARAMETERS"

№	Criteria for evaluation	Position of the organization of education			
		Strong	Satisfactory	Assumes improvement	Un satisfactory
Standard "Management of the 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 trainees.	+			
2	The organization of TVE should ensure the adequacy of the development plan for the EP to the available resources, the needs of the labor market and the educational policy of the Republic of Kazakhstan.	+			
3	The organization of TVE should involve representatives of stakeholder groups, including trainees, teachers and employers, 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.		+		
5	The organization of the TVE should determine the mechanisms for the formation and regular revision of the development plan for the 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, on the basis of proposals and amendments, the authorized collegial body of the TVE organization is making 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.		+		
9	The management of the EP should include:				
9.1	management through	+			
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 activities of the units and their interaction "		+		
10	The organization of the 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, unambiguous 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 (reviewing) and monitoring educational programs and documents regulating this process		+		
13	The organization of the TVE should ensure the availability and effective functioning of the information and feedback system aimed at trainees, employees and stakeholders		+		
14	The management of the EP should demonstrate the successful functioning of the QA system of quality assurance, including its design, management and monitoring, their improvement, decision-making on the basis of facts		+		

15	The management should provide evidence of transparency in the management of the educational program	+			
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			+	
17	The management should ensure that the degree of satisfaction of the needs of the teaching staff, staff and trainees is measured and demonstrate evidence of the elimination of deficiencies found in the measurement process		+		
18	The management of the EP should demonstrate evidence of openness and accessibility for students, teachers, parents	+			
TOTAL		8	11	3	
Standard "Specificity of the educational program"					

Evaluation criteria: content of OP

19	The organization of TVE should demonstrate the availability of developed models of the graduate of the educational program, including knowledge, skills, skills, basic and professional competencies, personal qualities	+			
20	The organization of TVE should provide evidence of the participation of the teaching staff and employers in the development of the EP, ensuring their quality			+	
21	The organization of TVE should determine the content, scope, logic of the interrelationship 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	The management of the EP should demonstrate the availability of a professional context in the content of the training disciplines		+		
23	The EP leadership should demonstrate an effective balance between theoretical and practice-oriented disciplines		+		
24	The list and content of the disciplines should be accessible to students. Disciplines should exhaustively cover all issues and problems in the field taught	+			

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 the OP

27	The management of the EP must ensure equal opportunities for students, including regardless of the language of instruction	+			
28	The management should ensure the existence and effective functioning of the system of individual assistance and counseling of students on the educational process	+			
29	Management creates conditions for the effective development of the EP	+			
30	The management should demonstrate the use of the advantages, individual characteristics, needs and cultural experience of students in the implementation of the EP	+			
31	The management should demonstrate individual support for students		+		
32	The management of the EP must prove the availability of a monitoring system for the achievements of students		+		

Evaluation criteria: evaluation of learning outcomes

33	The EP management should ensure the existence and effective functioning of the mechanism of an objective, accurate and comprehensive evaluation of learning outcomes		+		
34	The management should ensure that the evaluation of the learning outcomes and the degree of the basic and professional competencies of the students are objective, the transparency and adequacy of the instruments and mechanisms for their evaluation		+		
35	The management team should ensure that the procedures for assessing the level of knowledge, skills and abilities of students are in line with the planned learning outcomes and program objectives		+		
36	The EP management should conduct diagnostics of		+		

	knowledge, abilities and skills of students at the beginning of training at the rate and study of the academic disciplines				
37	Processes and criteria for evaluating learning outcomes should be transparent		+		
38	The management should ensure that the students have the skills to continue their education at the following educational levels		+		

Evaluation criteria: teaching methods

39	The management of the EP should ensure the systematic development, implementation and effectiveness of active teaching methods and innovative teaching methods		+		
40	When implementing the educational program, the independent work of the student		+		
41	The management of the EP should ensure the possibility of passing vocational training and professional practice in the specialty / qualification of trainees and monitor the satisfaction of students, managers of enterprises - places of practice and employers		+		
42	The management of the EP should ensure the implementation of the results of practical achievements of teachers in the educational process		+		
TOTAL		6	15	3	

Standard "Pedagogical collective and teaching effectiveness"

43	To implement educational programs, the management of the EP should involve practitioners and determine the proportion of the disciplines they read			+	
44	The management of the EP should motivate the teaching staff to constantly apply innovations in the educational process		+		
45	The management of the EP should demonstrate the adequacy of the staff potential of the teaching staff to the specifics of the educational programs	+			
46	The organization of TVE should demonstrate the availability of information about the pedagogical team to the public	+			

47	The management should ensure that the activities of the teaching staff are monitored, a systematic assessment of the competence of teachers, a comprehensive assessment of the quality of teaching		+		
48	The workload of teachers should include various activities. The management of the EP must demonstrate the evidence of the teachers' fulfillment of all types of planned workload	+			
49	The management of the RP should provide targeted actions for the development of young teachers	+			
50	The management of the EP should demonstrate the mechanisms for stimulating the professional and personal development of teachers and workers		+		
51	The management of the OP should ensure monitoring of the satisfaction of the teaching staff		+		
52	The management should demonstrate the IT competence of the teaching staff, the use of innovative methods and forms of training		+		
53	An important factor is the participation of the teaching staff in the life of society	+			
TOTAL		5	5	1	
Standard "Learners"					
54	The management of the EP should demonstrate the policy of forming a contingent of trainees and transparency of its procedures	+			
55	The management of the EP should demonstrate awareness of the main roles (professional, social) trainees 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	The management of the EP should make the maximum amount of effort to provide graduates with employment and keep in touch with graduates		+		
59	An important factor is the monitoring of the employment and professional activities of graduates		+		

60	The EP leadership should actively encourage students to self-education outside the main program (in the framework of extracurricular activities)		+		
61	The EP management should provide an opportunity for learners to exchange and express opinions	+			
62	The management should establish a mechanism for monitoring the satisfaction of students with the activities of the TVE organization as a whole and with individual services in particular		+		
63	The EP management should demonstrate the functioning of the feedback system, including the prompt presentation of information on the results of the evaluation of learning outcomes	+			
TOTAL		3	7		
The standard "Resources used in the implementation of educational programs"					
64	The management of the EP should ensure that the maximum number of structured, organized information is available for the students in the disciplines taught: for example, presentation materials, lecture notes, compulsory and additional literature, practical assignments, etc.		+		
65	Educational equipment and software used for the development of educational programs should be similar to those used in the relevant industries and meet the safety requirements for operation		+		
66	The organization of the TVE creates a learning environment that promotes the formation of basic and professional competencies and takes into account 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 disciplines studied and the possibility of implementing these skills in competitions and competitions or in some other way in practice	+			
68	The organization of TVE should conduct an assessment of the dynamics of the development of material and technical resources and information support for the EP		+		
69	In the organization of TVE, an educational environment for the OP should be created, which includes:				

69.1	technological support of 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 consultations - there are personalized educational resources that help students	+			
69.4	professional orientation - students have access to personalized educational resources that assist in the selection and achievement of career paths		+		
69.5	the necessary number of classrooms equipped with modern technical training facilities that meet the sanitary and epidemiological standards and requirements		+		
69.6	the necessary number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in them	+			
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 instruction		+		
69.8	free access to educational Internet resources	+			
70	The management should determine the degree of implementation of information technologies in the educational process of the EP, monitor the use and development by the teaching staff of innovative learning technologies, including ICT		+		
71	The management of the RP should demonstrate the reflection on the web resource of the information characterizing the OP		+		
TOTAL		5	10		
"Standards in the context of individual specialties"					
Education					
72	Educational programs in the field of "Education", such as "Preschool education and training", "Organization of educational work (by levels)", "Primary education", etc. must meet the following requirements:				
72.1	The management of the EP should demonstrate that the alumni have a program of practice-oriented knowledge in the field of psychology and communication skills, analysis of personality and behavior, methods for preventing and resolving conflicts, motivating learners				

72.2	The management should demonstrate the literacy of graduates of the program in the field of information technologies that meet the requirements of the educational sphere, the wide use of information and communication technologies in education organizations				
72.3	The management of the EP should demonstrate the availability in the program of disciplines, training organizations of the educational process, innovative methods of teaching and planning training, incl. interactive teaching methods				
72.4	The management of the UE should demonstrate that the students have the ability to form self-study skills				
72.5	The management of the EP should demonstrate that it has a clear idea of what qualifications and skills are required in the various specialties on the market, what is the approximate number of specialists required in the market for the profession being taught and to give examples of successful employment of most graduates in the specialty (qualification) in the first six months after the completion of training				
Natural and technical sciences					
73	Educational programs in technical areas, such as "Metallurgy and machine building", "Communication, telecommunications and information technology", "Production, installation, operation and repair (by industry)", "Communication, telecommunications and information technology", etc. . must meet the following requirements:				
73.1	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 training, the education program should include disciplines and activities aimed at obtaining practical experience and skills in the specialty in general and in the relevant disciplines in particular, in t .h.		+		
73.1 .1	excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, etc.)		+		
73.1 .2	conducting separate classes or whole disciplines at the enterprise of specialization			+	
73.1 .3	The use of workshops for practical classes, solving practical problems relevant to enterprises in the field of		+		

	specialization, etc.				
73.2	The teaching staff involved in the OP should include practitioners who have experience working at enterprises in the field of OD specialization.			+	
TOTAL			3	2	
IN TOTAL		27	51	10	

