



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТИҢ
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 on assessment
compliance with the requirements of the standards of specialized accreditation of
educational program

1304000 "Computer hardware and software (by type)
College Arystanbab LLP

from 18 to 20 March 2019.

INDEPENDENT ACCREDITATION AND RATING AGENCY
External expert commission

Addressed to
Accreditation
IAAR council.



Independent agency for
accreditation and rating

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Saryagash 18 March 2019

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I. LIST OF SYMBOLS AND ABBREVIATIONS

AC - alphabetical catalogue
JSC - Joint Stock Company
EW - educational work
HEI - higher education institution
SAC - State Attestation Commission
SCSE RK - state compulsory standard of education of the Republic of Kazakhstan
DDEO - a discipline defined by the educational organisation
RD - Railway disciplines
ICT - information and communication technologies
EPS - Engineering and pedagogical staff
KALIS - Kazakh automated library and information system
CFC - club of the funny and creative.
MES RK - Ministry of Education and Science of the Republic of Kazakhstan
IS - an international standard
RW - research work
RWS - research work of a student
SMW - scientific and methodical work
RChYL - a regional children's and youth library
EP - educational program
RESL - regional educational and scientific library
ALPC - assessment of the level of professional competence;
PC - professional competencies
Faculty - faculty
SCC - subject cycle commission
RK - Republic of Kazakhstan
WC - working curriculum
IBU - information and bibliographic unit
Mass media - mass media
BRR - building regulations and rules
TPE - technical and professional education
LLP - limited liability partnership
TLP - typical learning plan
TMC - teaching and methodical complex
TPP - Training and Production Practise
LA - learning activities
PI - private institution
DL - digital library

(II) INTRODUCTION

1. In accordance with the order No. 16-19-OD of 07.01.2019 of the Independent Accreditation and Rating Agency of the College "Arystanabab" LLP in Saryagash city, with the type of TPE activity, the visit of the external expert commission (EEC) was carried out.

2. From March 18 to March 20, 2019, the assessment of compliance of educational programs with the specialty 1304000 "Computer hardware and software (by type)", qualification 1304012 "Operator of electronic computing machines" and 1304043 "Programmer Technician" according to the standards of specialized accreditation of IAAR was conducted.

3. The EEC report contains an assessment of compliance of the submitted educational programs of the organization of education with the criteria of the IAAR, recommendations of the EEC on further improvement of educational programs and parameters of the profile of educational programs in the College "Arystanabab" LLP.

EEC membership:

1. **Chairman of the Commission** - Marzhan Sabyrova Malikova, Deputy Director for UMO of Almaty State Polytechnic College (Almaty);

2. **Foreign expert** - Ovcharenko Olga Grigoryevna, Deputy Director of the branch for training and methodological work of the Omsk branch of the Federal State Budgetary Educational Institution "Russian Academy of National Economy and Public Administration under the President of the Russian Federation (Omsk, Russian Federation);

3. **The expert** - Suleimenova Aliya Zeinulgabdenovna, Deputy Director for Educational Work of Zhezkazgan College of Business and Transport (Zhezkazgan);

4. **Observer from the Agency** - Dinara Kairbekovna Bekenova, Head of the Project on Accreditation of Organisations of TPE IAAR (Astana);

5. **Employer** - Alimbetova Sandugash -Buribekovna, Director of the kindergarten "Nurzhausyn" (Saryagash);

6. **Student** - Yusakhmetova Mokhina Tokhirkyzy, 3rd year student, specialty 0101000 "Pre-school education and training", Saryagash multidisciplinary college (Saryagash).

(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION

LLC Arystanabab College is a technical and professional education institution with legal personality that provides professional education programmes.

The College carries out educational activity on the basis of the state license No. 0038290 dated 19.10.2006, issued by the Department of Control in the Sphere of Education of South Kazakhstan region of the Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on specialty with full-time, full-time education: 1304000 "Computers and software (by types) 1304012 "Operator of electronic computing machines", 1304043 "Technician-programmer".

The College has a certificate of compliance with the requirements of ST RK ISO 9001-2016 "Quality Management Systems. Requirements" № KZ 7500207.07.03.00283 from 05.04.2018 to 05.04.2021

The training of specialists in the specialty "Computer engineering and software (by type)" is conducted in the full-time form of education in the state language. 229 students are enrolled in the 2018-2019 academic year, of which 149 students are enrolled in the state order, 80 students on a commercial basis.

The educational program includes: the working curriculum, working programs of academic disciplines, calendar and thematic plan, programs of educational and industrial practice, schedule of educational process, providing the implementation of appropriate educational technologies. The training program is aimed at fulfilling the tasks in accordance with the mission and has sufficient resources: human resources, material and technical base, contracts with practical bases, a list of optional disciplines, etc.

For the organization of practical training of the specialty "Computers and software (by type)" the contracts with 4 social partners of the organization of Saryagash city are concluded: IP "Nabiev", IP "Valiev", LLP "Saryagash Tour" and LLP Personal Development Center "Damu".

The college is located in its own 2 buildings. The total area of which is 3245 sq.m. There is a sports hall, a library with a reading room, a medical station. The number of classrooms is 22, of them: 5 - laboratories. For carrying out of educational practice on a contractual basis from the base organizations of education there are the separate offices equipped with the necessary furniture, visual aids. 29 persons for EP 1304000 "Computers and the software (by kinds) of qualification 1304012 "Operator of electronic computers" and 1304043 "Technician-programmer" number of pedagogical personnel in 2018-2019 academic year makes. Among them there are full-time teachers: with the highest category - 4 persons, with the first category - 5 persons, with the second category - 6 persons, without the category - 12 persons, masters - 4 persons.

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

In 2018, Arystanabab College LLP passed institutional and specialized accreditation of medical specialties.

(V) A DESCRIPTION OF THE EEC VISIT

The work of the EEC was carried out on the basis of the Program of the visit of the expert commission on specialized accreditation of educational programs in the period from March 18 to March 20, 2019 at the College "Arystanabab" LLP.

In order to coordinate the work of the EEC, a setting meeting was held at the College, during which the authority was shared among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of methods of expertise.

The EEC meetings with the target groups were held in accordance with the revised visit program and within the established time frame. The staff of Arystanabab College LLP ensured presence of all persons indicated in the visit program.

In order to obtain objective information on the quality of educational programs and the entire infrastructure of the college, to clarify the content of self-assessment reports, meetings were held with the director, deputy director for SD, deputy director for BP, deputy director for NRM, heads of departments, head of human resources, chairmen of the CMC, teachers, students, graduates, employers, social partners and parents of students. A total of 102 people took part in the meetings..

Table 1 - Information on those who participated in meetings with the EEC

Category of participants	Number
Director	1
Deputy Directors	3
The heads of departments	1
The heads of the CMOs	2
Teachers	11
Employees	2
Students	51
Graduates	8
Social partners	8
Parents of students	15
Totally.	102

In the process of EEC work, it carried out a visual inspection of the college infrastructure: classrooms, computer classes, library, reading room, assembly hall, gym, dormitory, medical center, canteen, etc. Also, the regulatory documents of the college, curricula, educational program, educational and informational support of educational activities, materials on personnel and material and technical support of the educational process, documentation on the organization of educational work and financial activities of the college were studied.

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 recommendations on the improvement of the college activity, developed by the EEC based on the results of the expertise, were presented at the meeting with the college management.

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

In addition, the experts reviewed the College's website www.arstanbab.kz, which is a source of information about the College for the public, both internal and external.

A detailed analysis of the College's compliance with the Independent Accreditation and Rating Agency's Standards of Specialized Accreditation allowed the EEC to draw the following conclusions in the context of standards within the framework of the College Visit Program.

(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

6.1 Standard "Educational Programme Management"

The probative part

The strategic educational activities of the college are reflected in the college's planning, reporting and regulatory documents.

Training on EP specialty 1304000 "Computers and software (by type)", qualification 1304012 "Operator of electronic computers" and 1304043 "Programmer Technician" is carried out in accordance with the regulatory documents of the Republic of Kazakhstan and the Strategic Development Plan of the College for 2018 - 2023, which defines the mission, goals, objectives and vision, reflecting its place and role in the socio-economic, educational, scientific and cultural development of the country.

The mission of the College is to train competitive, competent specialists with high civil and moral qualities, capable of successful professional activity.

Vision - being along with the leading educational institutions of the Republic of Kazakhstan to become a center of professional technical education in the Southern region.

Activities at the college are carried out in accordance with external and internal documents. External documents are submitted by Decrees of the President of the Republic of Kazakhstan, Resolutions of the Government of the Republic of Kazakhstan, Orders of the Ministry of Education and Science of the Republic of Kazakhstan, the Department of Education of Kostanay.

Internal documents are divided into internal normative, organizational and administrative, regulations on subdivisions and job descriptions.

According to the staff structure, the direct management of the College is carried out by the Director, who organizes the strategic management of the College in accordance with its competence, determined by the legislation of the Republic of Kazakhstan and the Charter of the College.

The main activities of the College are coordinated by deputy directors:

- Deputy Director for Educational Work;
- Deputy Director for Science, Methodology and Innovation;
- Deputy Director for Educational Work.

In addition to traditional methods, the college uses a process approach to management. The standard ST RK ISO 9001-9009, 2016 "Quality Management Systems" is defined as a business process management tool. The activities of the College are presented as a network of interrelated processes necessary for the implementation of the development strategy. Process management is carried out due to: clear distribution of responsibility for the processes outlined in the Quality Manual; high quality of QMS documentation, which allows to highlight the stages of design, operation, analysis and improvement of the process; annual self-assessment of processes. In college with the organizational structure reflecting the scheme of subordination on a vertical, the basic processes of activity of college, making a basis of a quality management system - a process landscape which includes: operating processes, the basic processes and supporting processes are defined also.

All types of documents of internal and external origin are managed in accordance with the documented procedure "Document Management". The forms of internal documents and the rules for their completion are set out in the relevant documented procedures, process maps, methodological instructions, etc.

Analytical part

EEC experts note that the college has formed an optimal system of management and identification of responsible persons. Implementation of educational programs, compliance with their mission, vision and strategy is ensured, first of all, through the planning system by using the following mechanisms:

- Management of long-term planning through the general priority directions and strategic goals for the development of programs;
- Short-term planning of internal control plans and the work of structural units reflecting the timing of implementation.

Analyzing the work on the standard "Management of educational program" it is possible to note that the educational program is implemented in accordance with the regulatory legal acts of the Republic of Kazakhstan.

In accordance with the program of the visit, a survey was conducted with teachers and students. The results of the survey reflected, in addition to determining the degree of satisfaction, the decision to adjust the plans according to the areas of activity.

During the interview with the administrative staff of the college, employees had information on the definition of processes and mechanisms of development and continuous improvement, and the effectiveness of work at the subdivision level, in the reporting and implementation of educational programs, the results of engineering teachers in the educational, methodical, educational areas and in the organization of industrial practice. But the meeting with other interested parties did not give such a positive answer, because in the process of forming the development plan of the college it is necessary to involve representatives of groups of interested persons, i.e. students, pedagogical staff and employers, thus demonstrating the transparency of the processes of forming the plan of development of EP.

Analyzing the work on the standard "Educational program management" it is possible to note that the success of the educational program implementation is determined, first of all, on the basis of systematic, purposeful and effective implementation of the goals and development plan of the educational program, which, accordingly, should be as transparent as possible, accessible to all interested parties.

An anonymous survey of teachers conducted during the visit of the IAAR EEC showed that the majority of teachers noted the item "Reflection of the college mission and strategy in the curricula" - "very good" - 69.2% and "good" - 30.8%.

The survey of students conducted during the visit of the IAAR EEC revealed that:

- the level of accessibility and responsiveness of the college management is completely satisfied - 93.3%;
- The overall quality of the training programs is fully satisfied - 95.6%;
- In general, 97.8% are completely satisfied with the teaching methods;
- The quality of teaching is fully satisfied - 97.8%.

Strengths/best practices

The EEC notes that the educational institution pays special attention to this standard:

- Degrees of implementation of the principles of sustainability, efficiency, effectiveness, priority, transparency, responsibility, delegation of authority, delineation and independence of the financing system;
- management of activities through the processes, mechanisms of planning, development and continuous improvement;
- Ensuring the availability and effective functioning of a learner-oriented, employee- and stakeholder-oriented information and feedback system;
- openness and accessibility for students, teaching staff and parents.

EEC recommendations

In order to further develop and improve the activities of the College in the implementation of accredited educational programs, EEC IAAR recommends:

- Improve the College's development strategies with specification of specific activities and indicators, as well as expected results and required resources, involving representatives of stakeholder groups by the end of the current academic year;
- Define mechanisms for the formation and regular revision of the development plan and monitoring of its implementation and hold public discussions with representatives of all stakeholders.

Conclusions of the EEC by criteria: (strong/satisfactory/inspiring to improve/insufficient)
The Higher Energy Commission notes that the specialized profile of the college according to this standard contains 5-powerful criteria, 15-satisfactory and 2-suppose improvements.

6.1. *Standard "Specifics of the educational program"*

The probative part

Educational program 1304000 "Computers and software (by type)" 1304012 "Operator of electronic computers", 1304043 "Programmer Technician" is implemented in accordance with the State Educational Standards of the Republic of Kazakhstan in accordance with the standard curricula approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2017 № 553 "On approval of standard training programs and standard curricula for specialties of technical and vocational education.

The content of educational programs of technical and vocational education provides for the study of general education, general humanitarian, socio-economic, general professional, special disciplines, industrial training and professional practice in the acquisition and consolidation of professional skills.

The main result of the successful mastering of educational programs by students is the training of an educated, comprehensively developed specialist capable of competing in the labor market, in this regard, the college has developed models of graduates in the specialties of the cluster.

Educational program: 1304000 "Computers and software (by type)" 1304012 "Operator of electronic computers", 1304043 "Programmer Technician" are structured on the principle of modular training. The content of modular educational programs is aimed at mastering the level of qualification on the basis of professional standards and in accordance with the National Qualifications Framework.

The management of the college provides the opportunity to pass the professional practice in the specialty of students and to monitor the satisfaction of students, managers of enterprises - places of practice and employers.

For qualitative practical training of students there are concluded contracts with 4 educational organizations:

№	Name	Specialty
1.	IE Nabiev	Computer science and software (by type)
2.	The Valiyev IE.	
3.	Saryagash Tour LLP	
4.	LLP Center for Personal Development "Damu"	

In order to ensure the quality of practical training, the following have been developed: regulations on practice, work programs, duties of methodical, general and direct supervisors, diary recommendations, requirements for students in the course of practical training and documentation, as well as control material for certification. Admission of students to the PP is formalized by the order of the college director. General and immediate supervisors of the practice are appointed by orders of the college director. The basic education of teachers meets the requirements to the practical training managers.

Analytical part

During the visit the IAAR experts visited the bases of practices, in particular, in the specialty of 1314000 "Computers and software (by type)", LLP "Personal growth center "Damu", Deputy Director of Ualikhanova Zhuldyz provided information about the activities of the organization and information about the practice at the enterprise by students of this specialty. Also, all planning documentation of the internship was presented and the trainees were given a chance to get acquainted with their work place.

Also the bases of IE "Nabiev T.A." which are engaged in support and training of 1C and the deputy director Nabieva Dilfuza was presented with the information on trainees, about their practical work and a workplace. Two graduates of Arystanabab College, Guseinov Galimzhan and Sharif, work in this enterprise in 2018.

In IE "Valiev P.M." Deputy Director Valiev Iman told about the main works of the trainees and presented the workshop on diagnostics and repair of PCs. The enterprise had relevant planning documentation confirming their coordination with the specialists of this IE. EEC also notes that Valiev Iman conducts practical training at the college for the accredited specialty and with the support of the management of IE "Valiev P.M." opened a laboratory for diagnostics and repair of computer equipment.

Taking into account that sustainable development of technical and vocational education, as well as any other social and economic system, is associated with the constant modernization of its

activities based on social partnership, it is necessary to search for new, more effective partners and introduction of innovations in the educational process. An important area of interaction with social partners in the field of education content is their involvement in the development of training documentation. Such interaction allows to take into account modern and perspective requirements for training of specialists, which are imposed by employers. In the course of the interview with employers, it was revealed that the College needs to open a new qualification for installation of cable networks and repair of computer equipment in accordance with regional needs, which is reflected in the Strategic Plan of the College.

Experts also note that the model of the graduate of the specialty 1304000 "Computer hardware and software (by type)" needs to be improved, as it should reflect the knowledge, skills, abilities, basic and professional competences, personal qualities of software engineer able to work in the modern market economy. Formation of competences is realized by means of educational content. During the interview it was not confirmed the involvement of interested persons in the development of the graduate model.

Thus, the EEC, analyzing the work on the standard "Specifics of the educational program", notes the need to update educational programs in accordance with the realities of the modern labor market, the EP management to ensure the exchange of experience with partner organizations should hold events with employers, which discuss the requirements for graduates and adjust training programs to the requirements of modern production. It is also necessary to provide additional education, which implies training and obtaining professional certificates.

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

- The level of support of educational materials in the process of training is assessed as high - 100%;
- The level of accessibility to counseling on personal problems is estimated at 97.8%;
- The overall quality of training programs is 95.6%;
- In general, 97.8% of the total number of training methods were used;
- The level of satisfaction with the college's educational resources is 97.8%.

Strengths/best practices

The EEC notes that the educational institution pays special attention to this standard:

- ensuring equal opportunities for students, including regardless of the language of instruction;
- Creation of conditions for the effective mastery of EP;
- Individual support for students in the implementation of EP;

EEC recommendations

In order to further develop and improve the activities of the College in the implementation of accredited educational programs, EEC IAAR recommends:

- finalize the graduate model in accordance with the professional activities on software development, modification, adaptation, configuration and maintenance with the use of innovative IT solutions until the end of the current academic year (June, 2019);
- Update the EP specialty "Computer hardware and software" to determine the compliance of training to the realities of the modern labor market, the requirements of existing organizations and enterprises in the region for the academic year 2019-2020;
- To develop a system of monitoring the satisfaction of students and managers of enterprises on the basis of the results of industrial training and professional practice in the field of "Computer Science and Software" until the end of the current academic year (June, 2019);
- Update the topics of course and diploma projects in accordance with the current level of development of information technology and at the request of employers for the graduation group of the current academic year;
- to introduce the results of practical achievements of the college teachers into the educational process in the new academic year (2019-2020).

Conclusions of the EEC by criteria: (Strong/satisfactory/inspiring to improve/unsatisfactory)

The EEC notes that the specialized profile of the college according to this standard contains a 3-strong criterion, 16-satisfactory and 5-suppose improvements.

6.2 "Pedagogical team and teaching efficiency" standard

The probative part

The teaching force is the main resource for supporting the college's mission. As a result, the College places great emphasis on recruitment and training processes. Personnel policy is implemented in accordance with the main priorities of the college strategy and the requirements of the college development plan.

In order to implement the educational process, the composition of teaching staff has been formed that trains specialists in accordance with the specifics of professional educational programs and has the necessary professional and pedagogical qualifications that meet the qualification requirements of "Qualification characteristics of teaching staff positions and equivalent persons" approved by the Director of LLP College "Arystanbab" in accordance with the legislation of the Republic of Kazakhstan and internal regulations of the Republic of Kazakhstan.

The rights and duties of the college staff are defined by job descriptions, which are periodically updated in accordance with the requirements of the time. All personnel procedures are reflected in the orders, which are communicated to all employees in a timely manner.

Personal files contain copies of basic education diplomas, a category assignment order, an inventory of documents, personal sheets on personnel records with photographs, employment contracts, applications, copies of certificates of professional development, extracts from orders, testimonials, certificate of attestation, CV, ID card, certificate of criminal record, contracts of liability.

According to the results of the assessment of the professional activity of teachers conducted in the college, the teachers who have gained the highest number of points are awarded with diplomas and cash prizes.

According to OP 1304000 "Computers and software (by type) 1304012 "Operator of electronic computers", 1304043 "Programmer Technician" the number of teaching staff in the 2018-2019 academic year is 29 people, including regular teachers - 27 people. Among them there are full-time teachers: with the highest category - 4 persons, with the first category - 5 persons, with the second category - 6 persons, without the category - 12 persons, masters - 4 persons.

Table 2. Number of teachers by EP "Computer Science and Software (by type)" over the last 5 years

Academic year	Total number of faculty members	Full-time teachers	Practitioners (part-time teachers)
2014-2015	30	28	2
2015-2016	27	27	-
2016-2017	29	27	2
2017-2018	31	30	1
2018-2019	29	27	2

Table 3: Qualitative composition of regular teachers on the EP "Computer hardware and software (by type)" over the last 5 years

Academic year	Total	With the highest category	Masters	first category	Masters	second category	Masters	Without category	Masters	Masters
2014-2015	28	5	1	4	1	4	1	15	-	3
2015-2016	27	5	1	3	1	5	1	14	-	3
2016-2017	27	5	-	4	2	4	1	14	-	3
2017-2018	30	4	2	5	1	6	-	15	-	3
2018-2019	27	4	1	5	2	6	1	12	-	4

According to the results of the academic year, the rating of teachers is carried out on the basis of the developed rating list, which evaluates the effectiveness and quality of educational, scientific-

methodical and organizational-educational teaching activity.

On the basis of individual rating of teachers the rating of cyclic (subject) methodical commissions is determined. The results of the rating are discussed at the Pedagogical Council, and the best teachers and the best CMI are determined by the results.

Planning of the educational work of the EPS is carried out by the deputy director for educational work within the limits of the pedagogical load. The total workload of full-time teacher working on a full-time basis, taking into account the performance of his educational, training, research, organizational, methodological, educational, professional development and other types of work within the 8-hour working day is 720-1080 hours. The annual volume of pedagogical load of EPS is established proceeding from the confirmed standard for an academic year, staff of EPS and taking into account necessity of performance of all kinds of the educational activity following from curricula.

The college management pays due attention to professional development of young specialists, each young teacher is assigned a mentor from among experienced teachers to provide methodological assistance in the organization of the educational process.

The college has created conditions for the professional development of teachers.

Over the past five years, the scope of professional development is 100 per cent. An annual plan for the professional development of teachers is drawn up for the academic year.

Teachers at the college upgrade their qualifications at least once every five years.

Analytical part

During the visit, the EEC attended a training session on "Computer Science and Software". In the group ET 16-9k discipline " Computer graphics" was conducted by a young teacher Raushan A. on the subject of the lesson "Search for graphic information on the Internet". Multimedia systems with presentation materials were applied at the lesson. Various methods and techniques of teaching were used.

In ET 17-11k the lesson was conducted by the teacher of the first category of special disciplines Oryntaeva G. on discipline "

Basics of object-oriented programming" where at a lesson were present 18 students from 25. The theme of the lesson "Features, events, methods" had practical orientation, as the teacher explained the theme in the program environment of C++ Builder. At the lesson multimedia systems and presentation materials were applied. Fixing of a theme was carried out by means of electronic test tasks.

The analysis of the attendance of the lessons shows the quality of the teaching staff, the compliance of the content of the lessons with the requirements of the educational program. During the classes, teachers use modern teaching technologies. The analysis of the work of the college's teaching staff demonstrates the desire of the staff to improve the quality of the college's development.

The survey of the faculty conducted during the visit of EEC IAAR showed that:

- The college provides an opportunity for continuous development of IPR potential - good - 69.2% and very good - 30.8%;
- teachers are satisfied with the content of the educational program - good 53.8% and very good, 46.2%;
- teachers' feedback to management is satisfactory - 69.2% and very well -30.8%;

Strengths/best practices

The EEC notes that the educational institution pays special attention to this standard:

- motivation of the teaching staff to constantly apply innovations in the educational process;
- availability to the public of information about the teaching staff;
- mechanisms to stimulate professional and personal development of teachers and employees;
- participation of the teaching staff in the life of the society.

EEC recommendations

In order to further develop and improve the activities of the College in the implementation of accredited educational programs, EEC IAAR recommends:

- Consider the possibility of international cooperation in the field of improving pedagogical and

methodological skills and sharing experience with foreign colleagues on the use of innovative pedagogical technologies in the 2019-2020 academic year;

- Take advanced training courses for teachers in accordance with the specifics of the disciplines taught at the beginning of the academic year 2019-2020;
- Create conditions for professional internships for teachers of special disciplines at production enterprises in the 2019-2020 academic year;
- Increase the number of authors' developments up to 20% in special disciplines in the academic year 2019-2020.

Conclusions of the EEC by criteria:

(Strong/satisfactory/inspiring to improve/unsatisfactory)

The EEC notes that the specialized profile of the college according to this standard contains 4-strong and 7-satisfactory criteria.

6.2 "Learners" standard

The probative part

Depending on the conditions of training, the contingent of the educational institution is divided into students under the state educational order and students on a contractual basis.

The rules of study at the college are regulated in accordance with the academic policy of the college. The admission plan is approved on the basis of monitoring of the needs of educational organizations of the region in specialists of the middle level. The College determines the number of new enrollment of students in accordance with material and technical and human resources capabilities. A bilateral agreement is signed with the students, which defines the rights, obligations, mutual responsibility of the parties, the cost of educational services.

Annually the college teachers carry out vocational guidance work in the schools of the city in order to ensure a sufficient influx of entrants. The college has developed a plan and algorithm of actions.

Methodical recommendations have been developed for teachers to conduct career guidance work with students of the city schools (with the demonstration of presentations, banners, information sheets for applicants). For more effective and productive acquaintance of school leavers with the future profession the college organizes "Open days", conversations.

Traditionally, an Open Day is held with a tour of the college for schoolchildren and their parents.

For reception of persons on training, carrying out of entrance examinations and transfer in structure of students by the headmaster of college the selection committee which begins the work not later than June 1 is appointed. Applicants' applications are registered in the registration journals. Entrance examinations are held in the Kazakh language according to the submitted applications of the applicants. Results of entrance examinations are announced on the day of its holding, placed on the information stands and the website of the college.

The results of admission will be posted on the information stands and website of the College.

In order to increase the effectiveness of EP, the college analyzes the admissions and the contingent of EP students.

Table 4. enrollment in college by EP "Computer Science and Software (by type)

Acceptance	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Totally	33	40	35	31	138
By state order	25	25	20	25	104
Paid	8	15	15	6	34
In the state language	33	40	35	31	138

The structural unit of the college dealing with employment of graduates is the head of practice. Graduates are employed by the graduates themselves after registration at the "Employment Center" and in accordance with the applications and petitions of educational organizations of

Turkestan region on the availability of vacancies. Students from other cities and provinces are employed at their place of residence.

The employment of graduates is monitored.

Table 5. Results of job placement/employment of graduates for 4 years by EP "Computer hardware and software (by type)

Academic year	Job placement		Employment	
	People	%	People	%
2014-2015	19	63,4	5	16,6
2015-2016	21	75,1	2	7,1
2016-2017	22	78,6	1	3,6
2017-2018	27	74,9	2	5,6

Analytical part

In the course of the interview with the members of the IAAR Commission the students of the accredited specialties expressed the following wishes: to strengthen the practical orientation of teaching, to increase the production excursions to get acquainted with the specialty, to repair the sports hall, to expand the dormitory, to increase the number of specialization circles, etc.

Experts note that the college has created all the conditions for the development of creative and athletic abilities of students, but not enough time is given to professional circles that contribute to the competence of future specialists. It is also noted that it is necessary to pay due attention to the choice of actual and real topics of diploma projects and their content, taking into account the requirements of employers.

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

- 91.1% are satisfied with the availability of computer classes and Internet resources;
- 100% satisfied with the availability of library resources;
- 97.8% are satisfied with the fairness of examinations and certification.

Strengths/best practices

The EEC notes that the educational institution pays special attention to this standard:

- Encouragement of students to self-education outside the basic program (within the framework of extra-curricular activities);
- providing opportunities for students to exchange and express their opinions.

EEC recommendations

In order to further develop and improve the activities of the College in the implementation of accredited educational programs, EEC IAAR recommends:

- Find the possibility of professional certification of students in the field of specialization in the process of education until the end of 2019;
- Develop a mechanism to implement the standards of professional training of WorldSkills international championships in the 2019-2020 academic year;
- Organize study groups and electives in accordance with the specialization at the beginning of the 2019-2020 academic year;
- strengthen ties with college graduates - attract them to participate in various events and create an Graduate Association by the end of the current academic year.

Conclusions of the EEC by criteria: (Strong/satisfactory/inspiring to improve/unsatisfactory)

The EEC notes that the specialized profile of the college according to this standard contains 2 - strong, 7 - satisfactory and 1 - suggest improvements.

6.5 Standard "Resources used in the implementation of educational programs"

The probative part

Arystanbab" college is located in its own 2 buildings. The total area of which is 3245 sq.m. There is a gym, a library with a reading room, a medical station.

The number of classrooms is 22, of them: 5 - laboratories. For carrying out of educational practice in special disciplines on a contractual basis with the basic organizations of education there are the separate offices equipped with necessary furniture, visual aids.

The material and technical base of the college corresponds to sanitary and hygienic norms and fire safety requirements.

One factor in the development and use of new information technologies is their continuous development. The Arystanbab College is actively working to introduce information technologies into the educational process. The college has established a common local wired network and a WI-FI system, which provides access to the Internet for wireless devices.

An IP video monitoring system is in operation, ensuring greater security for students and college staff.

A computerized testing system has been implemented, which creates a database of test tasks for all disciplines. The college actively uses computer rooms united in a single local network, rooms with interactive whiteboards, created a library stock, including electronic textbooks. Teachers have developed multimedia support for classes, and audio and video libraries are widely used. The need to use innovations in the educational process is justified and recommended at the CMI meetings by means of discussions and open classes. Methodical seminars and open lessons using the latest teaching technologies are held.

There is a library with a total area of 131.6 sq.m. It consists of a subscription, a reading room for 60 seats and a book depository of 31.44 sq.m. In its activities, the library is guided by the Law of the Republic of Kazakhstan "On Education", documents on librarianship and normative acts on TPE of the Republic of Kazakhstan. The staff provides for one unit of the library.

The college library provides students with the necessary educational, educational and methodical, socio-political, medical, natural science and fiction literature. The electronic library provides free access to college students and Internet teachers. Theoretical slice of knowledge in all disciplines is carried out by one of the innovative methods - automatic testing system of educational program. There are 5 computer classrooms, consisting of 125 computers of new generation, which are connected to the local network INTERNET. In addition, all the offices of the heads of structural subdivisions have computers connected to the INTERNET network. In total, there are 178 new generation computers, 10 laptops, 8 TV sets, 8 multifunction devices, 8 multimedia projectors with a screen, and an interactive whiteboard in the college. All computers of the college are connected to the local network and have access to the Internet. For printing and photocopying of educational documentation the structural subdivisions of the college are equipped with copying and multiplication equipment: printers, photocopiers, MFPs 3 in one; printer/xerox/scanner, photo printer. Scanning, printing and photocopying of training documentation in black and white format is carried out in the offices of the heads of departments.

In order to make information about the activities of the College and the educational services provided to the interested parties available, the College has created a web-site (www.arstanbab.kz) in the state language.

Analytical part

Analyzing the work of this standard in the course of interviews with teachers, students and parents, as well as visual inspection of the college experts note that the material base of the college is sufficiently equipped with modern computer equipment and has all the necessary conditions for the implementation of EP at a high level.

But at the same time, the EEC notes the need to constantly update the website of the college www.arstanbab.kz. For example, there is no information describing specialties, material and technical support of educational activities, including information on the availability of equipped classrooms, facilities for practical training, libraries, sports facilities, training and education, on the conditions of nutrition, on electronic educational resources to which students have access, on the receipt of financial and material resources and their expenditure at the end of the fiscal year, on the employment of graduates, the latest news of the college

Experts note the need to increase specialized literature for the specialty "Computer Science and Software", as well as the possibility of developing the author's works of the college teachers.

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

- Available computer classes - 93.3%;
- Available laboratories - 91.1%;
- 95.6% of the respondents were satisfied with the availability of dormitories;
- Availability of health services for students - 100%.

Strengths/best practices

The EEC notes that the educational institution pays special attention to this standard:

- Availability of the maximum possible amount of structured, organized information on the subjects taught: for example, presentation materials, lecture notes, mandatory and additional literature, practical tasks, etc;
- educational equipment and software used to master educational programmes that are similar to those used in their respective industries and that meet operational safety requirements;
- Creating a learning environment that supports the development of basic and professional competencies and that is responsive to individual needs and capabilities of the learners;
- assessment of the dynamics of the development of material and technical resources and information support for EP;
- provision of the necessary number of computer classrooms, reading rooms, multimedia and language laboratories, the number of seats in them book fund, including the fund of educational and methodical literature on paper and electronic media, periodicals in the context of teaching languages;
- free access to educational Internet resources.

EEC recommendations

In order to further develop and improve the activities of the College in the implementation of accredited educational programs, EEC IAAR recommends:

- strengthen the regular updating and updating of information about the college on the website;
- consider the possibility of adapting the site to mobile devices, for convenience and mobility of all stakeholders by the end of 2020;
- systematize the work on assessment of the dynamics of development of material and technical resources and information support for EPs;
- replenish the book fund with up to 30 per cent of modern educational, methodological and scientific literature for the specialty "Computer hardware and software" by the end of 2020.

Conclusions of the EEC by criteria: (Strong/satisfactory/inspiring to improve/unsatisfactory)

The EEC notes that the specialized profile of the college according to this standard contains 6 - strong, 7 - satisfactory and 2 - suggests improvement.

6.6.Standard "Standards in terms of specialties". Natural and technical sciences

The probative part

Organization of educational activities in the context of specialties is carried out through the planning of the educational process and content of education. Teaching is carried out on the basis of modern achievements of science and technologies of teaching.

Professional practice is an integral part of the main educational program of professional education and an effective form of professional training of qualified technical and service personnel for professional activity.

For the training of specialists in the educational program "Computers and software (by type)" are involved teachers-practitioners who have experience in the field of specialization of EP.

Educational program "Computers and software (by type) is in demand in the labor market. Average annual enrollment in specialties ranges from 31 to 138 persons, employment - 63.4-78.6%.

Analytical part

The analysis of the work on the standard "Standards in the context of specialties" showed that the plan of development of the specialty "Computer hardware and software" was not taken into account:

- Involvement of employers in the process of EP improvement, definition of professional competences of graduates, preparation of educational and methodical support of the disciplines proposed by the employer, which allow students to get high-quality professional education;
- The need for professional certification of students in the field of specialization in the learning process;
- Involvement of graduates in various activities of the college, etc.

Strengths/best practices

The EEC notes that in the educational institution according to this standard, special attention is paid to individual classes or entire disciplines at the enterprise specializations.

EEC recommendations

In order to further develop and improve the activities of the College in the implementation of accredited educational programs, EEC IAAR recommends:

- provide access to personalized educational resources, as well as resources that assist in selecting and achieving career paths during the next academic year (2019-2020);
- To envisage the possibility of opening a new qualification for installation of cable networks and repair of computer equipment in accordance with the 2-level training taking into account the needs of employers at the beginning of the 2020-2021 academic year.

Conclusions of the EEC by criteria: (strong/satisfactory/inspiring to improve/unsatisfactory)

The EEC notes that the specialized profile of the college according to this standard contains 1 - strong and 4 - satisfactory criteria.

VII REVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD

6.1 "Educational Programme Management" Standard

- TPE demonstrates the extent to which the principles of sustainability, effectiveness, efficiency, effectiveness, priority, transparency, accountability, delegation of authority, segregation and independence of the funding system are implemented;

The management of the EP should include:

- management of activities through processes;
- mechanisms for planning, development and continuous improvement;
- The organisation of TPE should ensure that an information and feedback system for learners, employees and stakeholders is in place and functioning effectively;
- The management of EP should demonstrate evidence of openness and accessibility to learners, the teaching staff and parents.

6.2 Standard "Specificity of educational program"

- The management of the EP should ensure equal opportunities for learners, including regardless of the language of instruction;
- The management creates conditions for effective learning of EP;
- The management of the EP should demonstrate individual support to learners in the implementation of the EP.

6.3 Standard "Teaching Staff and Teaching Effectiveness"

- The leadership should motivate the teaching staff to continuously apply innovations in the educational process;
- TPE should demonstrate that information about the teaching staff is available to the public;
- EP leadership should demonstrate mechanisms to stimulate the professional and personal development of teachers and staff;
- An important factor is the participation of the teaching staff in the life of the community.

6.4 "Learners" Standard

- EP management should actively encourage learners to self-education outside the core

curriculum (as part of extracurricular activities);

- The management of EP should ensure that learners have the opportunity to share and express themselves.

6.5 Standard "Resources used in the implementation of educational programmes"

- The EP manual should ensure that as much structured, organised information as possible on the subjects taught is available to learners: e.g. presentation materials, lecture notes, mandatory and additional literature, practical exercises, etc;

- Training equipment and software used to master educational programmes should be similar to those used in the relevant industries and should meet the operational safety requirements;

- The organization of TPE creates a learning environment that facilitates the development of basic and professional competencies and takes into account individual needs and capabilities of the trainees;

- The organization of TPE should assess the dynamics of development of material and technical resources and information support of the EP;

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

- free access to educational Internet resources.

6.5 Standard "Standards in the context of individual specialties"

- conducting separate classes or entire disciplines in a specialized enterprise.



(VIII) REVIEW OF THE RECOMMENDATION FOR QUALITY IMPROVEMENT

List of EEC recommendations on all standards related to meeting the criteria

6.1 Standard "Educational Programme Management":

- Improve the College Development Strategies by specifying specific areas of activity and indicators, as well as expected results and required resources, with the involvement of representatives of stakeholder groups;
- Define mechanisms for the formation and regular revision of the development plan of the EP and monitor its implementation and hold public discussions with representatives of all stakeholders.

6.2 Standard "Specifics of the educational program":

- to update the graduate model in accordance with the professional activity on software development, modification, adaptation, adjustment and maintenance with the use of innovative IT solutions until the end of the current academic year (June, 2019);
- Update the EP specialty "Computer hardware and software" to determine the compliance of training to the realities of the modern labor market, the requirements of existing organizations and enterprises in the region for the academic year 2019-2020;
- To develop a system of monitoring the satisfaction of students and managers of enterprises on the basis of the results of industrial training and professional practice in the field of "Computer Science and Software" until the end of the current academic year (June, 2019);
- Update the topics of course and diploma projects in accordance with the current level of development of information technology and at the request of employers for the graduation group of the current academic year of the accredited specialty;
- Introduce the results of practical achievements of the college teachers into the educational process in the new academic year (2019-2020).

6.3 Standard "Pedagogical staff and teaching efficiency":

- Consider the possibility of international cooperation in the field of improving pedagogical and methodological skills and exchange of experience with foreign colleagues on the use of innovative pedagogical technologies in the academic year 2019-2020;
- Take advanced training courses for teachers in accordance with the specifics of the subjects taught at the beginning of the academic year 2019-2020;
- Create conditions for professional training of teachers of special disciplines at production enterprises in the specialty field in the 2019-2020 academic year;
- Increase the number of authors' developments up to 20% in special disciplines in the academic year 2019-2020.

6.4 "Learners" standard:

- Find the possibility of professional certification of trainees in the field of specialization in the process of training until the end of 2019;
- Develop a mechanism for implementing professional training standards for WorldSkills international championships in the 2019-2020 academic year;
- Organize club activities and optional courses in accordance with the specialization at the beginning of the 2019-2020 academic year;
- strengthen ties with college graduates - attract them to participate in various events and create an Graduates Association by the end of the current academic year.

6.5 Standard "Resources used in the implementation of educational programs":

- Strengthen the work on regular updating and updating of information about the college on the website;
- consider the possibility of adapting the site to mobile devices, for convenience and mobility of all stakeholders by the end of 2020;
- systematize the work on the assessment of the dynamics of the development of material and technical resources and information support of EP;

- replenish the book fund with up to 30 per cent of modern educational, methodological and scientific literature for the specialty "Computer hardware and software" by the end of 2020.

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

- Ensure access to personalized educational resources, as well as resources that assist in selecting and achieving career paths during the next academic year (2019-2020);

- Provide for the possibility of opening new qualifications for cable network installation and computer equipment repair in accordance with the 2nd level of training, taking into account the needs of employers at the beginning of the 2020-2021 academic year.

(IX) REVIEW OF THE RECOMMENDATION ON THE DEVELOPMENT OF EDUCATIONAL ORGANIZATION

Considering the geographical location of the college, it is recommended that the management of Arystanbab College Limited Liability Partnership develop and implement an international cooperation program at the college.



Appendix 1. " INSTITUTIONAL PROFILE PARAMETERS" assessment table

№	Assessment criteria	Position of the educational organization			
		Strong	Satisfactory	Supposes improvement	Unsatisfactory
Standard "Educational program management"					
1	TPE demonstrates the development of the EP plan and its focus on meeting the needs of the State, stakeholders and learners.		+		
2	TPE should ensure that the EP development plan is adequate to the available resources, the needs of the labour market and the education policy of the Republic of Kazakhstan.		+		
3	TPE should involve representatives of stakeholder groups, including students, the teaching staff and employers, in the development of the EP plan.			+	
4	TPE organization demonstrates transparency of the processes of formation of the development plan for EP. TPE ensures that stakeholders are informed about the content of the EP Development Plan and the processes of its formation.		+		
5	The TPE organization should determine the mechanisms of formation and regular revision of the plan of development of EP and monitoring of its implementation.		+		
6	TPE organization systematically collects, accumulates and analyzes information on the implementation of the EP and conducts a self-assessment in all areas, develops and revises the EP development plan		+		
7	The development plan of the is discussed publicly with the representatives of all stakeholders, on the basis of proposals and amendments of which the authorized collegial body of the TiPo organization makes changes to the project.			+	
8	TPE demonstrates the degree of implementation of the principles of sustainability, efficiency, effectiveness, priority, transparency, responsibility, delegation of authority, delineation and independence of the funding system.	+			
9	EP management should include:				
9.1	Management of activities through processes	+			
9.2	mechanisms for planning, development and continuous improvement	+			
9.3	monitoring, including the establishment of reporting processes to determine the dynamics of activities and implementation of plans		+		

9.4	change effectiveness analysis		+		
9.5	evaluation of efficiency and effectiveness of subdivisions' activities and their interaction"		+		
10	All major business processes regulating the implementation of the EP should be documented in the TPE organization		+		
11	The organization of TPE should demonstrate a clear definition of those responsible for business processes, unambiguous distribution of job duties of the personnel, division of functions of the collegial bodies involved in the implementation of the EP		+		
12	The organization of TPE should demonstrate the procedure of approval, periodic review (revision) and monitoring of educational programs and documents regulating this process		+		
13	The organization of TPE should ensure that an information and feedback system for learners, employees and stakeholders is in place and functioning effectively	+			
14	The management of the EP should demonstrate the successful functioning of the quality assurance system of the EP, including its design, management and monitoring, its improvement, evidence-based decision-making		+		
15	The EP management should provide evidence of the transparency of the educational programme management system		+		
16	The organization of TPE should demonstrate the existence and evidence of intensive use of the statistical collection and analysis system in the management processes of EP		+		
17	The management of the EP should ensure that the needs of the teaching staff, staff and learners are measured in terms of satisfaction, and demonstrate evidence of remedial action in the measurement process		+		
18	The EP leadership should demonstrate evidence of openness and accessibility to learners, the teaching staff, parents		+		
Totally		5	15	2	
Standard "Specifics of the educational program"					
Assessment criteria: EP content					
19	The organization of TPE should demonstrate the existence of developed graduate models of the educational program, including knowledge, skills, abilities, skills, basic and professional competences, personal qualities			+	
20	TPE should provide evidence of the involvement of the teaching staff and employers in the development of EP, ensuring their quality			+	
21	The organization of TPE should determine the content, scope and logic of the interrelation of academic disciplines, as well as the impact of disciplines, industrial training and professional practice on the formation of basic and professional competencies of graduates		+		
22	The EP manual should demonstrate that the content of the academic disciplines has a professional context		+		

23	The management of the EP should demonstrate that there is 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 field of teaching		+		
25	The structure of an educational programme should include various activities that should contribute to the development of students' basic and professional competencies, taking into account their personal characteristics		+		
26	An important factor is the updatability of educational programs taking into account the interests of employers			+	

Assessment criteria: individualization of EP

27	The EP guidelines should ensure equal opportunities for learners, including regardless of the language of instruction	+			
28	The EP should ensure that a system of individual support and counselling for learners on the educational process is in place and functioning effectively		+		
29	Management creates the conditions for effective implementation of the EP	+			
30	The management of the EP should demonstrate the use of the advantages, individual characteristics, needs and cultural experience of the learners in the implementation of the EP		+		
31	The management of the EP should demonstrate individual support of the learners in the implementation of the EP	+			
32	The management of the EP must prove the existence of a system for monitoring the achievements of the trainees		+		

Assessment criteria: assessment of student performance

33	The management of the EP should ensure that a mechanism for objective, accurate and comprehensive assessment of learning outcomes is in place and functioning effectively		+		
34	The management of the EP should ensure the objectivity of the assessment of learning outcomes and the degree of development of basic and professional competencies of students, transparency and adequacy of tools and mechanisms for their assessment		+		
35	The EP's management should ensure that the procedures for assessing the level of knowledge and skills of the learners are consistent with the planned learning outcomes and objectives of the programme		+		
36	The management of the EP should diagnose the knowledge, skills and abilities of the learners when starting the course of study and learning the subjects		+		
37	Processes and criteria for assessing learning outcomes should be transparent		+		
38	The EP guidelines should ensure that learners have the skills to continue learning at the following educational levels		+		

Assessment criteria: training methodology

39	The management of the EP should ensure the systematic development, implementation and effectiveness of active learning methods and innovative teaching methods		+		
40	When implementing an educational programme, the trainee's independent work should be monitored		+		
41	The management of the EP should ensure the possibility of passing the on-the-job 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	The EP should ensure that the results of teachers' practical achievements are incorporated into the educational process			+	
Totally		3	16	5	
Standard "Pedagogical staff and effectiveness of teaching"					
43	In order to implement educational programmes, the management of EP should involve practitioners and determine the proportion of subjects they read		+		
44	The EP management should motivate the teaching staff to continuously apply innovations in the educational process	+			
45	The management of the EP should demonstrate that the human resources capacity of the teaching staff is appropriate to the specifics of educational programmes		+		
46	TPE should demonstrate that information about the teaching staff is available to the public	+			
47	The EP management should ensure monitoring of the work of the teaching staff, systematic assessment of the competence of teachers, comprehensive assessment of the quality of teaching		+		
48	The workload of teachers should include various activities. The EP management should demonstrate evidence of teachers meeting all types of planned workloads		+		
49	The EP guidelines should provide targeted action for the development of young educators		+		
50	The EP management should demonstrate mechanisms to stimulate professional and personal development of teachers and staff	+			
51	The management of the EP should ensure that the satisfaction of the teaching staff is monitored		+		
52	The EP management should demonstrate the IT competence of the teaching staff, the use of innovative methods and forms of learning		+		
53	An important factor is the participation of the teaching staff in the life of the society	+			
Totally		4	7		
Standard "Learners"					
54	The management of the EP should demonstrate the policy of formation of the EP contingent of learners and the transparency of its procedures		+		
55	Awareness of the main roles (professional, social) of learners based on learning outcomes should be demonstrated in the EP		+		

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 programmes to support gifted students.		+		
58	The management of the EP should make every effort to ensure that graduates are employed and that they maintain contact with graduates		+		
59	An important factor is the monitoring of employment and professional activity of graduates		+		
60	The management of the EP should actively encourage learners to self-education outside the core curriculum (as part of extracurricular activities)	+			
61	The EP guidelines should provide opportunities for learners to share and express their opinions	+			
62	The management of the EP should establish a mechanism to monitor student satisfaction with the activities of the TPE organization in general and individual services in particular		+		
63	The management of the EP should demonstrate the functioning of the feedback system, including the prompt provision of information on the results of the assessment of learning outcomes		+		
Totally		2	7	1	
Standard "Resources used in the implementation of educational programs"					
64	The EP guidelines should ensure that as much structured, organised information as possible on the subjects taught is available to learners: e.g. presentation materials, lecture notes, mandatory and additional literature, practical exercises, etc.	+			
65	The training equipment and software used to master the training programmes should be similar to those used in the respective industries and should meet the operational safety requirements	+			
66	The organization of TPE provides a learning environment that supports the development of basic and professional competencies and that is responsive to the individual needs and capabilities of the learners	+			
67	The organization of TPE should create the conditions for the development of applied skills of students and teaching staff in the disciplines studied and the possibility to implement these skills in competitions and competitions or in any other way in practice			+	
68	TPE should assess the dynamics of the development of material and technical resources and information support for EP	+			
69	A training environment for EP should be created in the organization of TPEs, which includes EP:				
69.1	Technological support for students and teaching staff in accordance with the specifics of the educational programme		+		

69.2	Academic accessibility - learners have access to personalized educational resources		+		
69.3	Academic Advice - personalized educational resources are available to help students		+		
69.4	vocational guidance - students have access to personalized educational resources to help them choose and achieve their career path		+		
69.5	Necessary number of classrooms equipped with modern technical means of education, corresponding to sanitary and epidemiological norms and requirements		+		
69.6	the required number of computer rooms, reading rooms, multimedia and language laboratories, and the number of seats in them	+			
69.7	the book fund, including the fund of educational and methodical literature on paper and electronic media, periodicals in the context of teaching languages			+	
69.8	free access to educational Internet resources	+			
70	The management of the EP should determine the extent to which information technologies are introduced into the learning process of EP, monitor the use and development of innovative learning technologies by the teaching staff, including those based on ICTs		+		
71	The EP management should demonstrate the reflection of the information characterizing EP on the web resource		+		
Totally		6	7	2	
"Standards in the context of individual specialties."					
Natural and technical sciences					
75	Technical education programmes such as "Metallurgy and Mechanical Engineering", "Communication, Telecommunications and Information Technology", "Production, Installation, Operation and Repair (by industry)", "Communication, Telecommunications and Information Technology", etc. should meet the following requirements				
75.1	In order to familiarize students with the professional environment and topical issues in the field of specialization, as well as to acquire skills through theoretical training, the education programme should include disciplines and activities aimed at acquiring practical experience and skills in the field of specialization in general and major disciplines in particular, including		+		
75.1.1	Excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, etc.)		+		
75.1.2	Conduct of individual classes or entire disciplines in the specialty enterprise	+			
75.1.3	use of workshops for practical training, solving practical problems relevant for enterprises in the field of specialization, etc.		+		

75.2	The teaching staff involved in EP should include practitioners who have experience working in the field of EP.				
			+		
Totally		1	4		
Whole in total		21	56	10	

