



«АККРЕДИТЕУ 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 evaluation committee  
for compliance with the requirements of standards of specialized accreditation  
of educational programs

1114000 "Welding"

1201000 "Maintenance, repair and operation of road transport"

November "19" to "21" 2018

Talgar 2018

**DEPARTMENT OF EDUCATION OF ALMATY REGION  
TALGAR POLYTECHNIC COLLEGE**

**Addressed  
To Accreditation  
Council of the IAAR**



Независимое агентство  
аккредитации и рейтинга

**INDEPENDENT AGENCY FOR ACCREDITATION AND RATING  
external expert Commission (EEC)**

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## LIST OF SYMBOLS AND ABBREVIATIONS

TPC	-	Talgar Polytechnic College
BD	-	basic discipline;
CC	-	core competencies
ICC	-	intra-college control
IRD	-	internal regulatory document;
EEC	-	external expert committee
SCC	-	state certification commission;
SQC	-	State Qualification Commission;
SOES	-	state obligatory education standard;
MSOE	-	municipal state-owned enterprise
GA	-	government agency;
JD	-	job description
ICT	-	information and communication technology;
IE	-	individual entrepreneur;
ETS	-	engineering and teaching staff;
MES of RK	-	Ministry of Education and Science of the Republic of Kazakhstan;
SMW	-	scientific and methodical work;
MA	-	methodical advice;
SRW	-	student research work;
R	-	regulations;
EP	-	educational program;
ALPT	-	assessment of the level of professional training;
PC	-	professional competencies
PS	-	professional school
PL	-	professional Lyceum
RK	-	The Republic of Kazakhstan;
WC	-	working curriculum;
MM	-	mass media;
TWS	-	test work of students;
LLP	-	limited liability partnership;
TVE	-	technical and vocational education
SC	-	standard curriculum;
TMC	-	training and methodology complex;
EW	-	educational work
SCC	-	subject-cycle commission
VT	-	vocational training

## INTRODUCTION

In accordance with the order № 103-18-OD of 15.11.2018 of the Independent Agency of accreditation and rating in the state enterprise «Talgar Polytechnic College» Of the Department of education of akimat of Almaty region, an external expert Commission visited from 19 to 21 November 2018. conducted conformity assessment activities and the implementation of educational programs of specialties 1114000 - «Welding» (qualification 1114042 - "Welder") and 1201000 - "Maintenance, repair and operation of road transport" (qualification 1201072 – «The Mechanic on car repairs», 1201062 – «Electrician repair automotive equipment» standards specialized accreditation.

The report of the external expert Commission (hereinafter – EEC) contains the conformity assessment activities of the College to the criteria of the standards of IAAR, the recommendations of the EEC for further improvement of the activities of the College and the profile settings of activities in the GCE «Talgar Politechnic College» of the Department of education of akimat of Almaty region.

### Members of the EEC:

1. The Chairman of the Commission Malikov Marjane Sabirova, Deputy Director of the EMA of GKKP «Almaty state Polytechnic College» (Almaty);
2. Foreign expert – Vyacheslav Sosnin, Director of the center «Union» (Omsk, Russian Federation);
3. Expert-Gordeeva Elena Anatolyevna, Deputy Director for Training and production works Polytechnic College of the Corporation «Kazakhmys» (Balkhash);
4. Expert - Asgat Raikhan, Deputy Director for training and production work of the state enterprise «Almaty Electromechanical College» (Almaty);
5. Expert Ospanov Arman Dauletbaevich, Head of the Department of SCAE «the High agro-technical College» (Akmola region);
6. Expert Mussina Gauhar Kaparovna, teacher of special disciplines of North Kazakhstan professional-pedagogical College (Petropavlovsk);
7. The observer from the Agency – Dinara Bekenova Kairbekovna, project Manager for accreditation organizations such as AR (Astana);
8. The observer from Agency-Bekenova Dinara Kairbekovna, the head of the project on accreditation of the TVET IAAR organizations (Astana);
9. Employer – Afanasyev Alexander Georgievich, Director of LLP «Kris – SERVIS» (Almaty);
10. Student Kabekova Aruzhan Seilkhanova, student of 3rd course specialty «Land management» SCE «Talgar College of agribusiness and management» (Talgar);

## **REPRESENTATION OF THE ORGANIZATION OF EDUCATION**

Departmental affiliation: Department of education of Almaty region. Form of ownership - state municipal state-owned enterprise. Legal address of the College: 041601, Almaty region, Talgar district, Talgar city, Kunaev street 209 A, e-mail: pl4\_talgar@mail.ru website: Talgarpk.kz

Training EP specialties 1114000 «Welding» (qualification 1114042 «The Welder») and 1201000 «Maintenance, repair and operation of road transport» (qualification 1201072 «the Mechanic on car repairs», 1201062 «electrician repair automotive equipment») on the basis of State license № 13015656, issued on 7 October 2013. The Department of control in education, Almaty region.

The College is actively working to develop cooperation with potential employers.

The material and technical base is equipped with modern equipment, training is conducted using innovative technologies of education. Work in collaboration with "the following social partners: LLP «Glazman», LLP «Tulpar – Express», LLP «Textiline». After graduation, graduates are employed at the enterprises of the city of Talgar and Talgar district.

Classrooms of special disciplines and laboratories are equipped with computer equipment, interactive whiteboards and necessary teaching AIDS.

The material and technical base of the College meets the conditions for the training of specialists of technical and vocational education and provides the possibility of implementing standard curricula and educational curricula.

The infrastructure of the College in the specialties 1114000 – «Welding», 1201000 – «Maintenance, repair and operation of road transport» is a single complex, and includes 2 academic buildings; educational building №1, educational building №2, workshops, laboratories. The total area of the premises is 9446.5 m<sup>2</sup>. The 12 rooms are equipped with stationary projectors complete with a computer, 15 interactive whiteboards complete with a computer, there are multiplying equipment, audio-video and music equipment.

In the equipped offices of computer science and programming computers are combined into a local network and have access to the global Internet. It allows students to use the resources of computer technology for the development of their specialties, both in the process of training and after school hours.

The total number of computers used in the educational process 166 and 165 units of them have access to the Internet.

The library and reading room are equipped in accordance with the requirements for equipment of libraries.

## **A DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE**

The state enterprise «Talgar Polytechnic College» Of the Department of education of Almaty region for the first time undergoes the procedure of specialized accreditation of TPE organizations.

## A DESCRIPTION OF THE VISIT OF THE EEC

The work of the EEC was carried out on the basis of the visit Program of the expert Commission on specialized accreditation of educational programs of the state enterprise «Talgat Polytechnic College» Of the Department of education of akimat of Almaty region in the period from November 19 to November 21, 2018.

In order to coordinate the work of the EEC, the College held an introductory meeting, during which the authorities were distributed among the members of the Commission, the schedule of the visit was clarified, and agreement was reached on the choice of examination methods.

Meetings of the EEC with the target groups were held in accordance with the specified program of the visit, in compliance with the established time period.

To obtain objective information about the quality of educational programs and the entire infrastructure of the College, to clarify the content of self-assessment reports, meetings were held: with the Director, Deputy Director for EW, Deputy Director for BP, Deputy Director for EPW, Deputy Director of administrative and production part, head of the personnel Department, chief accountant, librarian, nurse, heads of cycle commissions, social pedagogue, psychologist, Executive Secretary of the selection Committee, methodologist, teachers, masters of industrial training, students, graduates, employers, social partners and parents of students. In total, 169 people took part in the meetings.

**Table-Information about the participants in the meetings with the EEC**

The category of participants	Numbers
Director	1
Deputy Director	5
Senior Master	1
Methodist	1
Chief accountant	1
Chairman of the subject-cycle Commission	7
Head of HR	1
Librarian	1
Psychologist	1
Nurse	1
Executive Secretary of the selection Committee	1
Teachers	39
Students	40
Graduates	24
Social Partner	14
Parents of students	31
Total	169

In the course of the EEC work, a visual inspection of the College infrastructure was carried out: classrooms, computer classes, library, Assembly hall, production workshops, sports hall, gym, medical center, dining room.

And the documentation of the Subject-cycle commission, implementing accredited educational programs was studied.



During the work of the EEC, a visual inspection of the College infrastructure was carried out: classrooms, computer classes, library, reading room, Assembly hall, sports hall, medical center, canteen, etc. also, the normative legal documentation of the College, curricula, educational program, teaching and information support of educational activities, materials on personnel and material support of the educational process, documentation on the organization of educational work and financial activities of the College were studied.

Members of the EEC visited the base of practices in the specialty 1201000 – «Maintenance, repair and operation of road transport» Individual entrepreneur «Nurkhaidarov» service Station «Sapar – Servis», IE «Klyuev» specialty 1114000 – «Welding» LLP «PTZ ZETA», LLP «Baron». There are 3 third-party contracts for professional practice.

During a visit to base practice IE «Nurkhaidarov» SS «Sapar – Servis» 3rd year students 31 group Daniyar Alibayev, Sarypbekov Bakhytzhan, according to the training schedule was an Intern in this organization, under the guidance of a mentor Kulibaeva E also interned IE «Klyuev» the students of 3rd year group 31 Maasai Daniyar, Ermekov N under the guidance of a mentor Nicholas. The analysis showed that the equipment of the practice bases meet modern requirements.

During a visit to the practice base of LLP PTZ «ZETA» students of the 3 course 35 group Gazizov E, according to the training schedule was an Intern in this organization, under the guidance of a mentor Tucusheva E. and graduate Tugushev E. (graduated in 2008.) Kurmanjan J. (graduated in 2017) work in the specialty "welding business" and also was an Intern too "Baron" 3rd year students 35 group Usenov Bolat, Agilely Adilbek, under the guidance of a mentor Cherepanov and Kulmaganbetova Daniyar. All conditions were created for the work of the EEC, access to all necessary information resources was organized.

Also, the members of the EEC received confirmation from employers that the enterprises not only provide jobs for the period of practical training, but also part of the enterprises are involved in adjusting the content of working curricula and programs. The management of enterprises provides qualified employees to participate in the qualification Commission of the final qualification exams. College staff are trained in enterprises.

Upon completion of the professional practice, the meetings of the Commission for the protection of practice are held, which assesses the effectiveness of educational programs, analyzes in terms of the presence of components that form the personal development of students, their creativity and social competence.

As part of the planned program, recommendations for improving the activities of the College, developed by the EEC on the basis of the examination, were presented at a meeting with the leadership of the College.

Activities planned in the framework of the visit allowed the members of the EEC IAAR to conduct an independent assessment of compliance data contained in reports on self-assessment of the College, the criteria of the standards of specialized accreditation.

Along with this, the experts studied the College website Talgarpk.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 standards of specialized accreditation of the Independent Agency for accreditation and rating allowed the EEC to draw the following conclusions in the context of standards within the framework of the College visit Program.



## **THE STANDARDS OF SPECIALIZED ACCREDITATION**

### **6.1. Standard «Educational Program Management»**

#### **The evidence part**

Strategic educational activities of the College are reflected in the planning, reporting and regulatory documents of the College.

The objectives of the development plan of educational programs in the field of 1114000 – «Welding», 1201000 – «Maintenance, repair and operation of road transport», correspond to the mission, strategic plan and objectives of the College. Mission, strategic goals and objectives are reflected in the strategic plan of the College for 2018-2025, approved by the pedagogical Council on 29.08.2018. Systematic assessment of the mission, goals and objectives of the College is carried out by the pedagogical Council on the results of the year and the results of the Strategic plan.

The mission of the College is to prepare competitive working professions that are in demand in the labor market for the implementation of industrial and innovative development of the region.

Vision - to become a forge of technical personnel of the new formation providing the region with the enterprise in accordance with the requirements of the labor market.

Strategic directions-to create conditions and opportunities for the comprehensive development and self-improvement of students, their patriotism, professional competence necessary for the training of competitive workers.

Activities in the College are carried out in accordance with external and internal documents. External documents are the Constitution of the Republic of Kazakhstan; Law of the Republic of Kazakhstan "On education"; the State program of education development of the Republic of Kazakhstan for the years 2016-2019; the Strategic development plan of Kazakhstan up to 2050; the message of the President of the Republic of Kazakhstan – Leader of nation N. Nazarbayev to people of Kazakhstan "Strategy "Kazakhstan-2050": New political course of the established state; the Law of the Republic of Kazakhstan «On state youth policy in the Republic of Kazakhstan»; Comprehensive program of education in educational institutions of Kazakhstan, the State program of development and functioning of languages in the Republic of Kazakhstan for 2016-2020; the Charter of the College.

In 2017, as part of the experiment of transition to the modular competence approach of specialties 1114000 - «Welding», 1201000 - «Maintenance, repair and operation of road transport», on the basis of the model curriculum recommended by NPAO «holding «Kasipkor» changed working curricula and working training programs on the basis of State educational standards of the Republic of Kazakhstan in the field, SES № 1080 from August 23, 2012 and on the basis of the model curriculum,

Internal documents are divided into internal regulatory, organizational and administrative, regulations on divisions, 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 implementation of the development plan of educational programs and the effectiveness of the implementation of the plan is monitored through the forms and content of monitoring the results of the development of programs.

During each academic year, heads of departments monitor all aspects of the development of educational programs:

- monitoring of educational and methodical work and achievements of teachers in the tables;
- professional skill contest,
- monitoring of students' satisfaction with the support provided to them and the conditions for personal development and education.

### **Analytical part**

Experts of the EEC note that the College has formed an optimal system of management and identification of responsible persons. The Implementation of educational programs, compliance with their mission, vision and strategy is provided, first of all, through the planning system through the use of the following mechanisms.

Analyzing the work on the standard «Management of the educational program» it can be noted that the educational program is implemented in accordance with the legal acts of the Republic of Kazakhstan.

An anonymous survey of teachers conducted during the visit of the EEC NAAR, showed that the majority of teachers noted the mission and strategy of the College reflected in the curriculum – «very good» - 23 people, which was 51,1% and «good» - 21 people is 46,7%.

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

- the level of availability and responsiveness of the College management, fully satisfied-66.7%;
- the overall quality of training programs is fully satisfied-89.7%;
- methods of training in General fully satisfied-100%;
- 97.4% are fully satisfied with the quality of teaching.

### **Strengths/best practices**

- organization of TVE ensures the adequacy of the EP development plan to the available resources, the needs of the labor market and the educational policy of Kazakhstan;
- manages the activities through the processes;
- EP management demonstrates the successful functioning of the EP quality assurance system, including its design, management and monitoring, their improvement, and fact-based decision-making;

- the TVE organization demonstrates the presence and evidence of intensive use in the processes of EP management of the system of collection and analysis of statistics.

### **Recommendations of the EEC**

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

- strengthen the work to improve the quality of the educational process, taking into account the quality management system and the strategic development plan of the College;
- involve representatives of students, teaching staff and employers in the formation of the EP development plan.

Insights EEC criteria: (strong/ moderate/ suggest improvement/ unsatisfactory)

**The EEC notes that the specialized profile of the College according to this standard contains 4-strong, 17-satisfactory and 1-suggest improvements.**

### **6.2. Standard «Specificity of the educational program»**

#### **The evidence part**

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 for the acquisition and consolidation of professional skills.

The main result of the successful development of students' educational programs is the preparation of an educated, well-developed specialist, able to compete in the labor market, in this regard, the College developed models of graduates in the specialties of the cluster.

A graduate model is a description of what a specialist should be suitable for, what functions he should be prepared for and what qualities he should possess.

The basis of professional activity is the professional competence of the graduate, causing its adaptation to the changing situation in society and the labor market, updating existing or formation of new competencies. In the conditions of market relations, graduates should have such General professional competencies as independent supervision, control, self-discipline, evaluation, self-organization, self-government, provision.

The management of the educational program ensures the functioning of the quality assurance system of the educational program, including its design, management and monitoring, their improvement and decision-making based on the analysis of the actual results of the educational program.

By 2025, the College aims to achieve the quality of educational programs through the creation of a quality management system (QMS), developed on the basis of ISO 9001 standards.

#### **Analytical part**

The activities provided in the educational process and aimed at the development of basic and professional competencies of students are reflected in the following educational documentation:

- typical and working curricula;
- typical and working training programs in the disciplines studied;
- standard and working programs for all types of professional practice and industrial training;
- calendar and thematic plans;
- individual plans of teachers

Monitoring the achievements of students is carried out in order to obtain information necessary to track the dynamics of the results of educational activities of students and the dynamics of individual progress in personal development.

Given that the sustainable development of technical and vocational education, as well as any other socio-economic system, is associated with the constant modernization of its activities based on social partnership, requires the search for new, more effective partners, the introduction of innovations in the educational process. An important area of interaction with social partners in the field of educational content is their involvement in the development of educational and program documentation for training. Such interaction allows to take into account modern and perspective requirements for training of specialists, imposed by employers. During the interview with employers it was revealed that the College needs to strengthen the work on cooperation with social partners and update educational programs taking into account the interests of production.

#### **Strengths/best practices**

- the organization must demonstrate the presence of the developed models of the graduate of the educational program, including knowledge, skills, basic and professional competence, personal qualities.

#### **Recommendations of the EEC**

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

- to form the composition of the attestation examination Commission from among the qualified specialists of enterprises and representatives of collegial bodies according to the order № 125 with changes from 30.01.2017 in the ratio of 65% of the representatives of employers and 35% of the representatives of the organization of technical and vocational education;
- update the EP taking into account the interests of employers;
- systematize the work on the use of innovative methods and forms of education in the educational process;
- update the topics of course and diploma projects;
- use E-Journal in the learning process for transparency of evaluation criteria.

Insights EEC criteria: (strong/ moderate/ suggest improvement/ unsatisfactory)

The EEC notes that the specialized profile of the College according to this standard contains 1-strong criterion, 19-satisfactory and 4-suggest improvements.

### **6.3. Standard «Teaching staff and effectiveness of teaching»**

#### **The evidence part**

The teaching staff is the primary resource to support the mission of the College. In this regard, the College pays special attention to the recruitment and training processes. Personnel policy is carried out in accordance with the main priorities of the College strategy, the requirements of the College development plan.

For the implementation of the educational process formed part of teaching staff, training specialists in accordance with the specifics of professional educational programs and having the necessary professional and pedagogical qualifications corresponding to the qualification requirements "Qualification characteristics of positions of teaching staff and equivalent persons", approved by the Director, in accordance with the law " on education», order of the Minister of education and science of the Republic of Kazakhstan dated July 13, 2009 № 338 "on approval of standard qualification characteristics of positions of teachers and equivalent persons", which defines the basic qualification requirements for TVET.

Selection of personnel is carried out according to the established order of the Minister of education and science of the Republic of Kazakhstan dated July 13, 2009 № 338 qualification requirements by interview and resume study.

Planning of educational work of ETS is carried out by the Deputy Director for educational work within the pedagogical load. Total load full-time teachers, working full-time, subject to fulfilment of educational, educational-methodical, scientific-research, organizational-methodical, educational, training and other types of work within an 8-hour working day is 720 hours. The annual volume of teaching load of ETS is established on the basis of the approved standard for the academic year, the state of ETS and taking into account the need to perform all types of educational activities arising from the curriculum.

Engineering teaching staff Talgar Polytechnic College presented by experts in three categories:

- teachers with basic pedagogical education;
- teachers with basic special education (engineer, electrical engineers, mechanical engineers, engineer, etc.);
- masters of industrial training, with education on the profile.

Currently, the number of engineering and teaching staff of the educational program 1114000 – «Welding», is 14 people, including 2 teachers of special disciplines, 1201000 - «Maintenance, repair and operation of road transport», is 20 people, including 8 teachers of special disciplines,

#### **Analytical part**

During the visit, the EEC visited a practical class in the specialty «Welding», conducted a master of Orazbai M. O. where the lesson was attended by 12 students. The audit revealed the



lack of innovation in the learning process, which indicates the need to update the curriculum in accordance with modern requirements.

The high level of skill and creative activity of the teaching staff is evidenced by the presentation of employees to be awarded with departmental insignia and state awards. Deputy Director of OIA Kurmangalieva Zh.B. and a teacher of Russian language and literature Kasymova B. K. awarded the medal «The Best in the Teaching Sphere». Deputy Director of EW according to E. K and faculty of the College Karimbaev K. B., Abeeveva A. A., V. T. Abdiev, were awarded the medal of «The distinguished teacher of the eternal country», Mumedyarova M. K. Abilchanova Zh. A. were awarded with the medal «Ibrai Altynsarin», Methodist College Nuptekeeveva B. I. was awarded by the medal «The Great Teacher», a teacher of mathematics Myngbaeva A. B. with the medal «The Best Teacher of the Year».

9 teachers have a Master's degree, 2 teachers continue their education on awarding a Master's degree at the agrarian state University.

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

- College provides opportunity for continuous capacity development ETS-good-46.7 % and very good-48.9%;
- teachers are satisfied with the content of the educational program-good 51,1% and very good – 44,4%;
- the level of feedback of teachers with management satisfies well-57.8% and very well - 37.8%.

#### **Strengths/best practices**

- EP management demonstrates compliance of the teaching staff potential with the specifics of educational programs;
- TVE organization demonstrates the public availability of information about the teaching staff;
- EP management provides monitoring of the teaching staff, systematic assessment of teachers ' competence, comprehensive assessment of the quality of teaching;
- an important factor is the participation of the teaching staff in society.

#### **Recommendations of the EEC**

- to consider the possibility of increasing the share of practitioners involved in the educational process for teaching special disciplines and conducting master classes, seminars, etc.

**Insights EEC criteria: (strong/ moderate/ suggest improvement/ unsatisfactory)**

**The EEC notes that the specialized profile of the College according to this standard contains 4-strong, 7-satisfactory.**

## 6.4. Standard «Students»

### The evidence part

Admission to the College is carried out in accordance with the Standard rules of admission to training in educational institutions implementing educational programs of technical and vocational education, approved by the government Of the Republic of Kazakhstan dated January 19, 2012 № 130, on the basis of which the College developed «Rules of admission to training».

«Welding», 1201000 "Maintenance, repair and operation of road transport", is to accept persons among the students most prepared for training, consciously chose the specialty: high school graduates, graduates of technical vocational education, on the basis of the state order (budget) and paid basis (provided for the delivery of tests for admission to College).

The contingent of students in the profile is formed taking into account the requirements of employers, employment indicators. The need of graduates in the prepared specialties is studied: 1114000 - «Welding business», 1201000 - «Maintenance, repair and operation of motor transport». The quota of places for training is approved. The need of employers in specialists of this profile is fulfilled. Questions of formation of the contingent and the results of the admission are considered at meetings of the pedagogical Council, at regular meetings with the Director of the College. In the EP, the procedure of formation of the contingent is transparent and systematized, the information is posted on the website of the institution talgarpk.kz.

### Total number of students by specialties

№	Specialty code, specialty	2017-2018			
		Total	Forms of training		
	Full - time		Dual	Correspondence	
1	1114000 – «Welding» 1114042 – «Electric and Gas Welder»	72	72	0	0
2	1201000 «Maintenance, repair and operation of road transport» 1201072 – «Car repair mechanic» 1201062 – «Electrician for repairing automotive equipment».	73 95	73 95	0 0	0 0

In accordance with the Law of the Republic of Kazakhstan dated 27.07.2007 «On education» Talgar Polytechnic College provides admission to educational programs of technical and vocational education, providing training of working specialties on the basis of basic secondary education and General secondary education



Admission of applicants for training is conducted by the selection Committee in accordance with the regulations providing the state service «acceptance of documents in the organization of technical and vocational, post-secondary education» (order of the Minister of education and science of the Republic of Kazakhstan dated April 14, 2015 № 200), the standard rules of admission to training in the organization of education, implementing professional training programs of technical and vocational education», approved by the decree of the Government of the Republic of Kazakhstan dated January 19, 2012 № 130.

In the learning process, an important factor is the possibility of professional certification of students. On the basis of the order of the Minister of education and science of the Republic of Kazakhstan dated June 18, 2012 № 281 «on approval of the Rules of assessment of the level of professional training and qualification in professions (specialties) of technical and service work» (with additions and changes, order of the Ministry of education of the Republic of Kazakhstan dated 26.01.2016 № 79) the College conducts qualification exams to confirm the assessment of the level of professional training and qualification.

Employment of graduates is an important criterion in assessing the work of the College. Analysis of employment in the specialty for the reporting period is 86%.

### **Analytical part**

Analyzing the work on the standard «Students» it can be noted that effective learning requires a learning environment that promotes the formation of basic and professional competencies and personal development, taking into account the individual needs and capabilities of students.

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

- support of educational materials in the learning process-fully satisfied-89.78 %, partially-10.3%;
- availability of counseling on personal problems-fully satisfied-89.7%, partially-10.3 %;
- availability of library resources - completely satisfied – 92,3 %, in part 7,7 %;
- the quality of services provided in libraries and reading rooms is fully satisfied – 97.4 %, partially-2.6 %.

### **Strengths/best practices**

- an important factor is the possibility of professional certification of students in the field of specialization in the learning process;
- an important factor is the availability of support programs for gifted students;
- EP management should make every effort to provide graduates with employment and maintain communication with graduates;
- an important factor is the monitoring of employment and professional activities of graduates.

## **Recommendations of the EEC**

### **«Standards in the context of individual specialties»**

#### **The evidence part**

Infrastructure College majoring in 1114000 – «Welding», 1201000 – «maintenance, repair and operation of road transport» is a single complex, and includes 2 academic buildings; educational building №1, educational building №2, workshops, laboratories. The total area of the premises is 9446.5 m<sup>2</sup> including:

- educational building 1-5,104 m<sup>2</sup>
- educational building 2-4,342 m<sup>2</sup>
- workshops-1000,8 m<sup>2</sup>
- library with book Fund of 20994 units,
- 1 reading room with 30 seats;
- Assembly hall-216.92 m<sup>2</sup>
- Medical room 1-16,2 m<sup>2</sup>
- Dining room-368.8 m<sup>2</sup>
- Gym – 286,11 m<sup>2</sup>

To implement the EP specialty 1114000 – «Welding» in the educational process are used:

- Training rooms of General professional and special cycle (physics room, geography room, mathematics room, electrical engineering room, materials science room, drawing room, materials science, equipment room, special technology, electrical engineering, cooking, nutrition physiology);

- training computer classes for training using Information and communication Technologies are equipped with computers connected to the Internet;

- experimental bases (production bases of practice).

educational workshops (Mechanical workshop, electro locomotive constructing workshop).

To implement the EP specialty 1201000 - «maintenance, repair and operation of the vehicle» in the educational process are used:

- rooms of special disciplines, where interactive whiteboards are installed;

- training computer classes for training using Information and communication Technologies, equipped with computers connected to the Internet;

- training rooms of General professional and special cycle (physics room, geography room, mathematics room, occupational and environmental protection room, materials science room, drawing room);

- classrooms, where you can use including a laptop computer( laptop), projector, portable screen, video equipment;
- specialized laboratories (Laboratory of car electricians, car workshop, locksmith workshop);
- experimental bases (production bases of practice).

### **Analytical part**

During interviews with teachers, students and parents, as well as a visual inspection of the College, experts note the need to increase and improve the material base, in particular modern technology and interactive means. Also provide Wi-Fi network coverage throughout the College for the mobility of teachers and students.

Analyzing the work on the standard «Resources used in the implementation of educational programs», it can be noted that the continuous improvement of material, technical and information resources is a factor in ensuring the quality of the EP.

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

- availability of computer classes and Internet resources – «fully satisfied» - 82.1%, «partially satisfied» - 12.8%;
- the usefulness of the web site of educational organizations in General – «General» 84.6% of "partially satisfied" and 10.3%;
- classrooms, classrooms – "General" 84,6%;
- equipment and facilities for students are safe, comfortable and modern – «fully satisfied» – 87.2%, «partially satisfied» – 12.8%.

### **Strengths/best practices**

In the course of work on the standard «Resources used in the implementation of educational programs» experts have not identified strengths

### **Recommendations of the EEC**

- to improve the work on regular updating of the College website on academic accessibility and consultations, professional orientation of students, as well as to intensify the work on the implementation of distance learning technologies for the individualization of the educational process, including duplicating them in the state language;
- to continue work on the replenishment of the book Fund of educational and methodical literature and manuals, as well as electronic textbooks in the state language.
- provide for the possibility of updating workshops with modern equipment;
- develop stands for car electricians for visual AIDS in special disciplines;
- use argon and semi-automatic welding.

**Insights EEC criteria: (strong/ moderate/ suggest improvement/ unsatisfactory)**

**The EEC notes that the College's specialized profile under this standard contains 14-satisfactory and 1 – suggests improvement.**

## **REVIEW STRENGTHS/ GOOD PRACTICES FOR EACH STANDARD**

### **6.1. Standard «Educational Program Management»:**

- organization of TVET ensures the adequacy of the EP development plan to the available resources, the needs of the labor market and the educational policy of Kazakhstan;
- manages the activities through the processes;
- EP management demonstrates the successful functioning of the EP quality assurance system, including its design, management and monitoring, their improvement, and fact-based decision-making;
- the organization of TVET demonstrates the presence and evidence of intensive use in the management processes of EP system of collection and analysis of statistics.

### **6.2. Standard «Specificity of the educational program»:**

- the organization of TVET must demonstrate the presence of the developed models of the graduate of the educational program, including knowledge, skills, basic and professional competence, personal qualities.

### **6.3. Standard «Teaching staff and effectiveness of teaching»:**

- EP management demonstrates compliance of the teaching staff potential with the specifics of educational programs;
- TVET organization demonstrates the public availability of information about the teaching staff;
- EP management provides monitoring of the teaching staff, systematic assessment of teachers ' competence, comprehensive assessment of the quality of teaching;
- an important factor is the participation of the teaching staff in society.

### **6.4. Standard «Students»:**

- an important factor is the possibility of professional certification of students in the field of specialization in the learning process;
- an important factor is the availability of support programs for gifted students;
- EP management should make every effort to provide graduates with employment and maintain communication with graduates;

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

## **REVIEW RECOMMENDATIONS FOR IMPROVING QUALITY**

### **6.1. Standard «Educational program Management»:**

- strengthen the work to improve the quality of the educational process, taking into account the quality management system and the strategic development plan of the College;

- involve representatives of students, teaching staff and employers in the formation of the EP development plan.

### **6.2. Standard «Specificity of the educational program»:**

- to form the composition of the attestation examination Commission from among the qualified specialists of enterprises and representatives of collegial bodies according to the order № 125 with changes from 30.01.2017 in the ratio of 65% of the representatives of employers and 35% of the representatives of the organization of technical and vocational education;

- update the EP taking into account the interests of employers;

- systematize the work on the use of innovative methods and forms of education in the educational process;

- update the topics of course and diploma projects;

- use E-Journal in the learning process for transparency of evaluation criteria.

### **6.3. Standard «Teaching staff and effectiveness of teaching»:**

- to consider the possibility of increasing the share of practitioners involved in the educational process for teaching special disciplines and conducting master classes, seminars, etc.

### **6.4. Standard «Students»:**

- to develop a mechanism for the implementation of standards of professional training of International WorldSkills Championships on the declared competencies;

- to improve career guidance using innovative technologies.

### **6.5. Standard «Resources used in the implementation of educational programs»:**

- to improve the work on regular updating of the College website on academic accessibility and consultations, professional orientation of students, as well as to intensify the work on the implementation of distance learning technologies for the individualization of the educational process, including duplicating them in the state language;

- to continue work on the replenishment of the book Fund of educational and methodical literature and manuals, as well as electronic textbooks in the state language.

- provide for the possibility of updating workshops with modern equipment;

- develop stands for car electricians for visual AIDS in special disciplines;
- use argon and semi-automatic welding.

**Annex 1. Estimated table PARAMETERS «SPECIALIZED PROFILE»**

#	Evaluation criterion	Position of the educational organization			
		Strong	Satisfactory	Suggests improvement	Unsatisfactory
<b>Standard «Educational Program Management»</b>					
1	TVET organization demonstrates the development of the EP development plan, its focus on meeting the needs of the state, stakeholders and students.		+		
2	TVET should ensure the adequacy of the EP development plan to the available resources, the needs of the labor market and the educational policy of the Republic of Kazakhstan.	+			
3	The TVET organization should involve representatives of stakeholder groups, including students, teaching staff and employers in the formation of the EP development plan.			+	
4	The TVET organization demonstrates the transparency of the processes of formation of the EP development plan. TVET provides stakeholders with information about the content of the EP development plan and the processes of its formation.		+		
5	The TVET organization demonstrates the transparency of the processes of formation of the EP development plan. TVET provides stakeholders with information about the content of the EP development plan and the processes of its formation.		+		
6	The Type organization systematically collects, accumulates and analyzes information on the EP implementation and conducts self-examination in all directions, develops and revises the EP development plan.		+		
7	The EP development plan is being discussed in public with representatives of all interested parties, on the basis of proposals and amendments of which the authorized collegial body of the TVET organization makes changes to the project.		+		



8	The TVET organization demonstrates the degree of implementation of the principles of sustainability, efficiency, effectiveness, priority, transparency, responsibility, delegation of authority, differentiation and independence of the financing system.		+		
9	The EP control must include:				
9.1	operation management through the processes	+			
9.2	mechanisms for planning, development and continuous improvement		+		
9.3	monitoring, including the creation of reporting processes to determine the dynamics in the activities and implementation of plans for analyzing the effectiveness of changes		+		
9.4	monitoring, including the creation of reporting processes to determine the dynamics in the activities and implementation of plans for analyzing the effectiveness of changes		+		
9.5	assessment of the effectiveness and efficiency of the units and their interaction		+		
10	The TVET organization should document all major business processes that govern the implementation of the EP		+		
11	The TVET organization should demonstrate a clear definition of those responsible for business processes, an unambiguous distribution of job responsibilities of the staff, the division of functions of the collegial bodies involved in the implementation of the EP		+		
12	The TVET organization shall demonstrate the procedure for approval, periodic review (revision) and monitoring of educational programs and documents regulating this process		+		
13	The TVET organization should ensure the availability and effective functioning of a system of information and feedback aimed at students, employees and stakeholders		+		
14	The EP management should demonstrate the successful functioning of the EP quality assurance system, including its design, management and monitoring, their improvement, and fact-based decision-making	+			
15	EP management must provide evidence of transparency in the management of the educational program		+		
16	The organization of TVET needs to demonstrate the existence and evidence of intensive use in the management of EP system for the collection and analysis of statistics	+			
17	The EP management should measure the satisfaction of the needs		+		



	of the teaching staff, staff and students and demonstrate evidence of the deficiencies identified in the measurement process				
18	The EP management should demonstrate evidence of openness and accessibility for students, teaching staff, parents		+		
<b>Total</b>		4	17	1	

**Standard " Specificity of the educational program»**

**Evaluation criteria: EP content**

19	TVET organization must demonstrate the presence of the developed models of the graduate of the educational program, including knowledge, skills, basic and professional competence, personal qualities	+			
20	The TVET organization must provide evidence of the participation of the teaching staff and employers in the development of the EP, ensuring their quality		+		
21	The organization of TVET should determine the content, scope, logic of the relationship 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 the presence of a professional context in the content of academic disciplines		+		
23	The EP management should demonstrate an effective balance between theoretical and practice-oriented disciplines		+		
24	The list and content of disciplines should be accessible to students. Discipline should deal exhaustively with all the issues, the problems existing in the teaching field			+	
25	The structure of the educational program should provide for various 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 updating of educational programs taking into account the interests of employers		+		

**Evaluation criteria: EP individualization**

27	The EP management should ensure equal opportunities for students, including regardless of the language of instruction		+		
28	EP management should ensure the availability and effective functioning of the system of individual assistance and counseling students on the educational process		+		
29	The management creates conditions for the effective development		+		

	of EP				
30	The EP management should demonstrate the use of the advantages, individual characteristics, needs and cultural experience of students in the implementation of the EP		+		
31	The EP guide must demonstrate individual support of students when implementing EP			+	
32	The EP management must prove the presence of a system for monitoring the achievements of students		+		

**Evaluation criteria: evaluation of students ' results**

33	Evaluation criteria: evaluation of students ' results		+		
34	Руководство EP должно обеспечить объективность оценки результатов обучения и степени сформированности базовых и профессиональных компетенций обучающихся, прозрачность и адекватность инструментов и механизмов их оценки		+		
35	The EP management should ensure that the procedures for assessing the level of knowledge and skills of students are consistent with the planned learning outcomes and objectives of the program		+		
36	EP management should diagnose the knowledge and skills of students at the beginning of training on the course and study of academic disciplines		+		
37	The processes and criteria for evaluating learning outcomes should be transparent			+	
38	The EP management should ensure that students develop the skills to continue their education at the following educational levels		+		

**Evaluation criteria: teaching methods**

39	The EP management should ensure the systematic development, implementation and effectiveness of active teaching methods and innovative teaching methods		+		
40	During implementation of the educational program should be monitored independent work of the student		+		
41	The EP management should provide the opportunity to undergo industrial 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	EP management should ensure the implementation of the results of practical achievements of teachers in the educational process		+		
<b>Total</b>		1	19	4	

<b>Standard «Teaching staff and effectiveness of teaching»</b>					
43	For the implementation of educational programs guide EP should attract practitioners and to determine the proportion of subjects read them		+		
44	The EP management should motivate the teaching staff to constantly apply innovations in the educational process		+		
45	The EP management should demonstrate the compliance of the staff potential of the teaching staff to the specifics of educational programs	+			
46	The TVET organization must demonstrate the public availability of information about the teaching staff	+			
47	The EP management should ensure monitoring of the teaching staff, systematic assessment of teachers ' competence, and comprehensive assessment of the quality of teaching	+			
48	The workload of teachers should include various activities. Guide EP must demonstrate evidence of completion teachers of all kinds of scheduled load		+		
49	The EP management should provide targeted actions for the development of young teachers		+		
50	The EP management should demonstrate mechanisms to stimulate professional and personal development of teachers and employees		+		
51	The EP management 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 training		+		
53	An important factor is the participation of the teaching staff in society	+			
<b>Total</b>		4	7		
<b>Standard «Students»</b>					
54	The EP management should demonstrate the policy of forming a contingent of EP students and transparency of its procedures		+		
55	The EP management should demonstrate an awareness of the main roles (professional, social) of learners 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 support programs for gifted students.	+			

58	The EP management should make every effort to provide graduates with employment and maintain communication with graduates	+			
59	An important factor is the monitoring of employment and professional activities of graduates	+			
60	EP management should actively encourage students to self-education outside the main program (in the framework of extracurricular activities)		+		
61	The EP guide should provide an opportunity for learners to share and Express opinions		+		
62	The EP management should create a mechanism to monitor the satisfaction of students with the activities of the TVET organization in General and individual services in particular		+		
63	The EP management should demonstrate the functioning of the feedback system, which includes the operational presentation of information on the results of the evaluation of training results		+		
<b>Total</b>		4	6		
<b>Standard «Resources used in the implementation of educational programs»</b>					
64	The EP guide should ensure that students have access to as much structured, organized information as possible on the subjects taught: for example, presentation materials, lecture notes, mandatory and additional literature, practical tasks, 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 requirements of safety in operation		+		
66	TVET creates a learning environment that promotes the formation of basic and professional competencies and takes into account the individual needs and capabilities of students		+		
67	The organization of TVET should create conditions for the development of applied skills of students and teaching staff in the studied disciplines and the possibility of implementing these skills in competitions and competitions or in any other way in practice		+		
68	TVET organization should assess the dynamics of development of material and technical resources and information support of the EP		+		
69	In the organization of TVET needs to be created learning environment EP, 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 advice - there are personalized educational resources that help students		+		
69.4	professional orientation-students have access to personalized educational resources that assist in choosing and achieving career paths		+		
69.5	the required number of classrooms equipped with modern technical training facilities that meet sanitary and epidemiological standards and requirements		+		
69.6	the required number of computer classes, reading rooms, multimedia and language laboratories, the number of seats in them		+		
69.7	book Fund, including the Fund of educational and methodical literature on paper and electronic media, periodicals in the context of learning languages		+		
69.8	free access to educational Internet resources		+		
70	The EP management should determine the degree of implementation of information technologies in the educational process of the EP, monitor the use and development of innovative teaching technologies by the teaching staff, including on the basis of ICT		+		
71	The EP manual should demonstrate the reflection on the web resource of the information characterizing the EP		+		
<b>Total</b>			14	1	
<b>«Standards in the context of individual specialties»</b>					
<b>Education</b>					
72	Educational programs in the direction of «Education», such as «pre-School education and training», «organization of educational work (by levels)», "Primary education", etc. must meet the following requirements:				
72.1	The EP management should demonstrate that the graduates of the program have practice-oriented knowledge in the field of psychology and skills in the field of communication, analysis of personality and behavior, methods of conflict prevention and resolution, motivation of students				
72.2	The EP 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 widespread use of information and communication technologies in educational institutions				

72.3	The EP management should demonstrate the presence in the program of disciplines that teach the organization of the educational process, innovative methods of teaching and planning of training, including interactive teaching methods				
72.4	The EP leadership must demonstrate the availability of students ' skills formation-learning skills				
72.5	The EP management should demonstrate that it has a clear, reasonable analysis and facts about what specialties (qualifications) and skills within individual specialties are in demand in the market, what is the approximate number of specialists required in the market for the taught specialty and give examples of successful employment of most of the graduates in the specialty (qualifications) in the first six months				

### **Social Sciences, services, Economics, business and law**

73	Educational programs in the areas of «Service, Economics and management» and «Law», such as «law Enforcement», «Patenting», «Translation (by type)», «Tourism (by industry)», «catering», «Social work», «Marketing (by industry)», «Finance (by industry)», etc. should meet the following requirements: the EP management should guarantee access to the most modern and relevant data (statistics, news, scientific results) in the field of specialization in paper (Newspapers, statistical data collections, textbooks) and electronic media				
74	EP in the areas of «Social Sciences, Economics and business» and «Law» must also meet the following requirements:				
74.1	the goals and results of the EP should be aimed at obtaining specific skills that are in demand in the labor market				
74.2	the EP management should demonstrate that program graduates possess these skills and that these skills are really in demand in the market				
74.3	EP should include a significant number of disciplines and activities aimed at obtaining practical experience of students in the application of theoretical knowledge, such as industrial practice, training in enterprises, participation in lectures and master classes of practitioners, etc.				

### **Natural and technical Sciences**

75	Educational programs in technical areas, such as «metallurgy and engineering», «Communications, telecommunications and information technology», «Production, installation, operation and repair (by industry)», «Communications, telecommunications and information technology», etc. must meet the following requirements:				
75.1	In order to familiarize students with the professional environment				



	and relevant issues in the field of specialization, as well as to acquire skills 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 core disciplines in particular, including:				
75.1.1	excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, etc.)		+		
75.1.2	conducting individual classes or entire disciplines in the enterprise specialization		+		
75.1.3	the use of workshops for practical training, solving practical problems relevant to enterprises in the field of specialization, etc.		+		
75.2	The teaching staff involved in the EP should include practitioners with experience in enterprises in the field of EP specialization.		+		

### Art

76	Educational programs in the direction of «Art and culture», such as «Socio-cultural activities and folk art (profile)», «Instrumental performance and music (by type)», " Painting, sculpture and graphics (by type)», «Theory of music», etc., must meet the following requirements				
76.1	The EP management should demonstrate that the graduates of the program have theoretical knowledge in the field of arts, practical skills and self-expression through creativity, such as modeling, drawing, singing, etc.				
76.2	The EP management should demonstrate students ' self-learning and self-development skills, ability to work in the field of art				
76.3	EP must include the maximum possible number of disciplines and activities in which skills are taught to students individually or in small groups, for example, carrying out master classes of the honored figures of the area of specialization				
76.4	The EP management should organize as many events as possible for students to demonstrate their acquired creative skills, such as concerts and exhibitions				
76.5	EP should contribute to the enrichment of creative experience in different types of practice, characteristic of the specialty				
76.6	In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills on the basis of theoretical training, the EP should include disciplines and activities aimed at obtaining practical experience and skills in the specialty in General and the core disciplines in particular, including::				



76.6.1	excursions to enterprises in the field of specialization (museums, theaters, design offices, etc.))				
76.6.2	conducting individual classes or entire disciplines in the enterprise specialization				
76.6.3	conducting seminars to solve practical problems relevant to enterprises in the field of specialization, etc.				
76.7	An important factor in the EP is the presence of a mechanism of peer review of collegial examination papers of students				
<b>Total</b>			4		
<b>Total in general</b>		13	69	6	

