

## Training pedagogical shot in the universities of Kazakhstan to implement profile education in the 12-year school

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**Abstract.** The article reflects the results of scientific and pedagogical research of the modernization of professional training system of pedagogical personnel in Republic of Kazakhstan during the transition to 12-years of education. It justified the priority areas to improve the system of professional training of pedagogical personnel; the author's point of view is presented for the preparation of competitive specialists; the work experience at the university is described taking into account the training of pedagogical personnel during the transition to 12-years of education. [Konakbaeva U.Z., Medetbekova R.A., Medetbekov M.M. **Training pedagogical shot in the universities of Kazakhstan to implement profile education in the 12-year school.** *Life Sci J* 2014;11(11s):191-197] (ISSN:1097-8135). <http://www.lifesciencesite.com>. 42

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### Introduction

The problem of preparation of future teachers to the organization of profile training at comprehensive school with all sharpness rises today in connection with the ripened need of modernization of an education system for the Republic of Kazakhstan and transition to 12-year training when many countries successfully carry out it according to regional features and requirements. Necessity of modernization of an education system taking into account features of RK mostly is defined by a social and economic situation in the country, tendencies of development of a modern pedagogical science, change of the purposes and problems of education, updating of its contents and introduction of person-oriented technologies of its realization. One of stages of implementation of modernization of a base link of the Kazakhstan education system - 12 -year comprehensive school is transition of its senior step to profile training, as on the system of specialized preparation focused on an individualization of training and socialization of learners taking into account real requirements of a labor market.

In competitive educational paradigm profile education sets as the purpose to help young (the person) in choosing the sphere of future professional activity and mastering by a set of the competences necessary for successful adaptation in constantly changing modern society. It shows that key idea of profile training – is essential growth of possibilities of a choice, and a pupil should be prepared for such choice.

Transition to new educational model is caused by growth of information streams and hi-tech productions at which fast rates the contents, structure and action nature of workers of separate professions

are changed in fast rates. It demands from graduates of updated schools to become not performers of narrow specializations, but to be experts, capable to live in dynamically developing environment, mobile to be switched from one kind of activity to another, ready to self-updating both in own interests, and in interests of society, systematically to be engaged in self-education. In other words, leading idea of updating of high school in the conditions of 12-year training is essential expansion of possibilities of a choice by each pupil of an individual educational trajectory, as defines the main approaches to training, the contents and structure of profile training [1; 2; 3].

It is absolutely evident, what exactly profile training can create real conditions of preparation of school students to perspective requirements of a labor market of the Republic of Kazakhstan and becomes favorable circumstances for development of these qualities.

The purpose of the organization of profile training at schools of Kazakhstan is creation of conditions for development and realization of individual educational programs for students of senior classes, focusing on formations of a personal professional image of the future through creation of the educational trajectory.

The organization of profile training is supposed on socially - humanitarian, natural - scientific, technological) and other directions for implementation for oriented pre-professional preparations of seniors. Within these directions, taking into account requirements of learners and regions, possibilities and features of educational institutions, possibility of intra profile specialization is also provided. For this reason in the country experiment on approbation of new educational model

of 12-year school, search of ways of improvement of structure and the maintenance of the secondary general education for a number of years is carried out, creation of evening and correspondence profile schools for youth is planned, who are wishing to combine study with work. Opening of these schools is expected on the basis of day profile schools, the resource centers at higher education institutions and colleges having the corresponding licenses. The organization of educational process in 12 - year school is planned taking into account a combination of the base and vary content of the education defined by the basic curriculum. Profile subjects are intended to define specialization of each direction.

Besides, in the republic creation of a uniform complex of intramural and extramural profile training on the basis of use of information and remote technologies of training is supposed, the organization of various options of profile training on the village is predicted: boarding schools in districts or large settlements and boarding houses. It will allow creating the open educational space available to pupils of remote villages and for children with limited possibilities [4].

Introduction of profile training in educational process of schools assumes introduction of new educational components, many of which will directly "work" [5] for increase of efficiency of continuity of education at school and higher education institution as links of a uniform chain. Thus the educational environment of profile training should make the natural or artificially created socio-cultural environment of the pupil including different types of means and the content of education, capable to provide productive activity of the pupil with a view of his self-determination in future professional activity.

In this context an essential contradiction for told is insufficient readiness of graduates of pedagogical higher education institutions for realization of profile training. Introduction of profile training in the Kazakhstan schools at the senior step of school is complicated by that graduates of pedagogical higher education institutions, as well as their instructors, have no clear idea of character and the content of profile training. The teacher of profile school should know bases of the organization of profile training at base and profile levels, a technique of development of applied courses, a technique of the organization of design, research activity.

Studying and the analysis of practice of work of schools and pedagogical higher education institutions of the republic, psychological-pedagogical literature devoted to this problem, shows that level of readiness of graduates of pedagogical specialties of universities and working teachers to

profile training of seniors doesn't correspond to requirements of modern reality. In particular, low level of preparation of future teachers to profile training of seniors is noted by many respondents. So, GPA of the readiness on the main indicators of readiness at graduates made only 1,5 points that on 1,6 points below the optimum level of readiness accepted in literature.

In this regard the actuality and the importance of a problem of preparation of students to profile training of seniors increases in new conditions of the public life demanding arms by their new knowledge and abilities in the field of the organization of profile training of seniors. Our research is devoted to permission of the above-named contradiction.

### The main part

The term "profile" occurs from French 'profil' and Italian 'profile' that means "outline" and it is used in different fields of knowledge - architecture, equipment, geodesy etc. Despite ambiguous understanding, this term in recent years is widely used in pedagogics. A profile set of internal, homogeneous, and constant according to the maintenance of structural elementary units of activity of the person which define requirements to general educational and professional training, and become the general for one group of professions [6].

Profile training represents with itself means of differentiation and the training individualization, allowing at the expense of changes in structure, in contents and the organization of educational process to consider interests, tendencies and abilities of pupils more fully, to create conditions for training of seniors according to their professional interests and intentions concerning education continuation.

It is necessary to emphasize, profile training isn't professional or production, its main goal – is self-determination of pupils, formation of adequate idea of the possibilities. Here priority is not preparation for a concrete profession or specialty, but it is providing conditions of the high-grade general education according to individual requirements and possibilities of pupils, their professional self-determination and ensuring readiness of transition to professional training in system of continuous education.

The main objectives of profile training are:

1. Creation of conditions for the account and development of educational and informative and professional interests, abilities and needs of pupils in the course of their general educational preparation:

2. Education in pupils of love to work, providing conditions for their vital and professional

self-determination, formation of readiness for a conscious choice and mastering by future profession;

3. Formation of social, communicative, informative, technical, technological competences of pupils at pre-profile level, training orientation on a choice of future profession;

4. Ensuring perspective communication between the general average and future professional education.

In other words, profile training is an increasing knowledge of school students, tendencies, improvement of earlier received skills through creation of system of specialized preparation in the senior classes of comprehensive school. Such preparation is focused on an individualization of training and professional guidance of school students taking into account real requirements of a labor market.

Realization of profile training is supposed to be carried out in various educational institutions: profile high schools, polyprofile (or versatile) high schools or resource centers [6].

Profile secondary school – is a type of educational institution with the organization of the person-oriented pedagogical process which provides in an individual educational route in system of the general knowledge assimilation at the raised level of profile educational areas and the additional education, corresponding to its abilities, the professional intentions which result is readiness of the graduate for generating acquired in mobile practical realities.

Polyprofile (or versatile) secondary school – is a type of educational institution, organizing pedagogical process at which there are all three profile directions and which provides assimilation in system of the general knowledge at the raised level of profile educational areas and the additional education, corresponding to profile abilities, professional intentions for the purpose of a laying of the individual profile educational route which result is readiness of the graduate for generating of knowledge in mobile practical realities.

It is possible to call profile classes the future of development of the Kazakhstan education system. These are classes in which at preservation the contents in full provided by state standard, profile level of training is realized at the expense of hours of a school component. Profile training at the senior step provides possibility of various combinations of subjects that provides flexibility of system of profile training.

Transition to profile school assumes changes on a set of pupils of profile classes: to the purposes and maintenance of the secondary (full) general education; to planning of educational

process: to system as a whole: to technologies of training: to the monitoring system and estimates of knowledge of pupils: to a control system. Accordingly, a new teacher who is obliged to be not simply highly skilled expert corresponding to a profile and specialization of the professional activity is necessary to new school also, but also should provide:

- variability and personal orientation of educational process (design of individual educational trajectories of the school students allowing them to finish professional self-determination and to create abilities and competence, educations necessary for successful continuation in the chosen direction);

- practical orientation of educational process for the purpose of formation on pupils the key competences defined by state standard;

- completion of profile self-determination of seniors and formation of abilities and competence, necessary for education continuation in the respective sphere of professional education.

Thus, requirements of scientific and technical progress and an intensification of material, social and spiritual life of society assume changes both in an education system, and in its subjects, the contents, structure and nature of actions of workers of separate professions. These changes involve changes and in professional training of pedagogical shots in the direction of arms of students with new knowledge and practical abilities in the organization of profile training of seniors.

According to Z.S.Nazaraliyeva, profile training is a process of systematic interaction in pedagogical process of the teacher with learners for the purpose of assimilation in an individual educational route of system of the general knowledge and at the raised level of profile educational areas and the additional education, coinciding with its abilities, professional intentions and their transformations to personal qualities of the competent graduate. Result of profile training is formation of base competences [6].

As preparation of pedagogical shots for realization of profile training we consider training process from a position of mastering by students system of pedagogical knowledge, abilities, formations on their basis of system of professional belief and installations. As result of training under preparation of pedagogical shots for realization of profile training we mean readiness of future teacher for implementation of profile training in the course of professional activity at any levels: educational process as a whole, separate subject (purposes, program, methods and forms, monitoring system etc.). a certain educational situation - lesson, lecture, seminar and so on where as significant components

act: purposes, contents, methods, forms, development level, learning, etc.

Solution of a problem of preparing future teachers to profile training of seniors we consider as joint of the highest and school pedagogics in updating of the maintenance of state standards, curricula and educational programs according to new requirements of public, economic and spiritual life of the country.

After G. B. Kunzhigitova [7], we consider important in preparation of future teacher of technology for the organization of profile training complex realization in pedagogical process of higher education institution of the intersubject communications helping "to formation of outlook and a civic stand of future teacher. They are:

- cognitive, providing updating of basic knowledge and abilities of the students received at studying of adjacent subjects, for the purpose of formation of system of knowledge in the course of studying of regularities, the phenomena, the facts and education deepening on profile preparation in a context with social and economic and cultural and historical specifics of the region;

- educational, assuming use of domestic and foreign experience of teachers, examples and illustrations from cultural history, sciences, technicians and production technologies, and also the phenomena and the facts of the social and economic environment of the region for the purpose of formation of professionally significant qualities of future teacher;
- specific, indicating communication of a studied subject with the content of profile training of pupils for the purpose of the analysis existing or development and introductions of new methodical receptions of profile education on a substantial and procedural basis of a studied subject.

Features of activity of the teacher of profile school as carrier of certain professional functions, knowledge and the abilities, carrying out professional guidance of school students in the course of educational and nonlearning work, characterize such indicators, as:

- Knowledge which is necessary in the course of carrying out professional orientation work with pupils in the course of their educational and nonlearning work.

- The skills applied by the teacher in the course of the organization and carrying out professional, orientation work with pupils in their socially - useful, productive work.

- Sensibleness of need and existence of steady desire of the teacher to work in system of profile training,

As a whole, preparation of future teachers for work in the conditions of profile training includes the following aspects:

1. Formation of a professional and personal position of teachers.

2. Complex (psychological-pedagogical and professional and personal) nature of education of teachers.

3. Creation of system of consultation and trainings.

4. Creation of psychological-pedagogical conditions (system of open classrooms, special courses, circles, sections) for development of professional skill.

5. Democratization and a humanization of all training procedures, creation of the creative and free atmosphere of the doctrine.

6. An educational step and a field of activity of teachers of educational institutions (teachers of preschool institutions, teachers of elementary school, the teachers of different disciplines of the main secondary school, the teachers working in system of additional education, teachers-defectologists, practical psychologists, and also representatives of school administration, etc.).

7. Specifics of the contingent of pupils (their age, a state of health, thus special attention should be given to specific groups of exceptional children, orphan children, disable children.

8. Professional, postprofessional preparation and professional experience of teachers.

Besides above-mentioned, the accounting of possibilities of a practical training in preparation of students for profile training of seniors is obligatory. The big advantage is brought by the seminars which are carried out in the form of collective informative activity. It is: division of students into groups by their will (with obligatory participation of the student with steady interest to given subject): statement of common goals and tasks for group; work in sequence individual, pair (more often cross poll), work in group (collective); obligatory preliminary restriction on time of each stage of occupations: expert analysis; a work group assessment with the teacher; carrying out self-image.

The contents and nature of preparation of pedagogical shots is influenced by the accounting of features of special disciplines, where:

- 1) the content of special disciplines should be based on the diverse technical science connected with production, with equipment, and letting-out disciplines should integrate all disciplines of special and all-technical cycles in itself;

- 2) the teacher should acquire not only the content of special disciplines, but also be able to awaken in students interest to mastering by

professional knowledge and skills, to develop on them educational and developing influence;

3) technical knowledge is closely connected with natural-scientific disciplines (physics, chemistry, mathematics, etc.) as the basis of equipment is made by materials, raw materials, nature processes, its laws. Opening of natural sciences give «a material for creation of technical objects». Technical knowledge has integrative character, i.e. reflects actually technical, natural and social aspects in a complex;

4) integrative nature of technical knowledge demands from the teacher ability in the course of formation from students to rely on the knowledge received on classes in natural-scientific disciplines. Therefore the teacher along with the program of special discipline should know programs of the interconnected disciplines well;

5) practical orientation of the content of pedagogical disciplines, communication with inservice training. The accounting of this feature demands from the teacher good knowledge of a practical side of professional training of the qualified expert;

6) instability of the content of special disciplines is caused by change of requirements to training of specialists, improvement of equipment, technologies, and productions. In this regard the teacher should be able to reconstruct the contents and training methods in due time.

Thus, success of realization of profile training in high school depends on readiness of teachers for high-quality changes in the professional activity which treats:

- development of the maintenance of a subject at profile level:

- increase of variety of types and the forms of activity used at a lesson and out of it (research and design works of pupils, group and individual forms of the organization of informative activity); readiness for change of system of estimation of knowledge; development of a technique of the organization of elective courses; understanding of essence of competitive approach in training.

The first cause of high-quality changes in professional activity of the teacher is change of paradigms, namely transition from a training paradigm to a doctrine paradigm

### Research methods

During research of above mentioned problem: theoretical analysis of psychological, pedagogical, economic, sociological literature and practical experience; supervision (direct, included): interview, questioning, interviewing; experimental

work at school; analysis of results of research were applied.

In determination of specifics of profile training we relied on native and foreign scientific researches of Z.S.Nazaraliyeva, A.N.Syzdykova, G.A.Userbayeva, G.Zh.Kusepova, G.A.Voronina, V.V.Guzeev, P.S.Lerner, N.V.Nemova, A.A.Pinsky, A.M.Shamayeva, etc.

Methodological bases of professional guidance (concept, the contents, principles, forms and methods) we investigated on works of E.M. Pavlyutenkov, S.Y. Chistyakova, G.A.Klimov and the psychologist - pedagogical aspects in the direction of a choice of a profilation of training at comprehensive school - on Karimbayeva B. Sh. , N. V. Nemova and many others.

### Experienced and experimental part

In experienced and experimental work students, teachers, methodologists on student teaching, undergraduates, school psychologists, and also teachers of technology and the teacher-methodologists of base schools were participated.

The questionnaire of future teachers carried out by us allowed to allocate on a significance value leading, average significant and insignificant barriers for ways of mastering with a pedagogical profession.

The highest indicators of the importance in experimental and control groups have professional barriers (63 % of cases in experimental group, 58 % in control), then there are psychological barriers (25 % and 30 % of cases respectively) and only then social (12 % of cases in both groups).

Research showed that in experimental group 54,3 % of future teachers plan to apply the knowledge received in higher education institution in practice of the organization of profile training in 12-year school, 45,7 % of them answered: "I give preference to self-education", considering that demanded knowledge can be got in the course of formation of experience of pedagogical activity. In control group these indicators were 25,2 % and 74,8 %.

"Conclusion" of knowledge of carried-out research, that is compliance of results of research to goals and tasks, is received in the course of a training stage of a forming stage of experienced and experimental work. It was directed on direct mastering knowledge by students, formation of skills within a special course «Bases of the organization of profile training in 12-year school» which was a component of the variety block of the curriculum.

As a whole the forming stage of experienced and experimental work allowed to confirm expediency of the put-forward conditions of improvement of process of preparation of future

teachers of technology to the organization of profile training in 12-year school, abilities of students promoting formation for performance of functions of subjects of professional pedagogical activity.

It is lawful to carry the following to such conditions:

- development on the basis of system, competitive and modular approaches and realization in teaching and educational process the system of preparation of future teachers of technology to the organization of profile training, a backbone component which became a special course «Bases of the organization of profile training in 12-year school»;

- ensuring integration of theoretical and practical preparation with consecutive purposeful involvement of students to design activity at all grade levels;

- the organization of passing by students of pedagogical practice at schools with a technological profile of training and technological practice (on chosen profile) on production; at implementation of the individual and differentiated approaches in preparation of students for formation of new profiles for seniors of 12-year school in the tideway of problems of technological education and realization of the State program the "Cultural heritage", including the purposes, tasks, principles and substantial and technological components of educational process (on an example of development of a new technological profile «Manufacturer of souvenirs», applying for his inclusion in State «The qualifier of profile training» and mass introduction in comprehensive schools of Kazakhstan.

## Conclusion

In recent years prompt growth of new scientific schools and the directions in the country, social infrastructure, spiritual and material needs, rapid development of the industry of rest and entertainments form the social demand for training and preparation of future experts in a set of the various directions. One of them is preparation of the teacher of technology for work at the 12-year school. [8-13]

The content of education at 12-year school is urged to form objective world picture on learners, to provide integration of the personality into system of world and national cultures and formation of the person-citizen. In these conditions further implementation of modernization of comprehensive school transfer of the senior step to profile training became inevitable. In the organization of profile training according to the State program of a development of education in the Republic of Kazakhstan for 2011-2020 and transition to 12-year

training by important reference points there is a development of networks of intellectual "Nazarbayev" schools and Nazarbayev universities, high schools «Profile school» and inclusive education with introduction of system of electronic training "e-learning" on the basis of profile training.

Nowadays not less significant reference points for profilization are tendencies of the modern public processes which are characterizing on the one hand - globalization and integration, economic and cultural spheres of universal professional activity, with another - differentiation and specialization as separate organizational structures, a hook and private, individual activity of people. Therefore the choice of a profilization should be on discretion of schools depending on local conditions and features of the region.

During research it is established that preparation of future teachers of technology for the organization of profile training of seniors in 12-year school will be effective at creation of the following pedagogical conditions:

- implementation of preparation of students to the organization of profile training of seniors in 12-year school on the basis of system, competitive and modular approaches to the organization of educational process;

- realization in teaching and educational process the system of preparation of future teachers of the technology which central component is the special course «Bases of the organization of profile training at the 12-year school», directed on assistance to students in development organizationally - methodical questions of profile training;

- the organization of studying of special disciplines on the basis of a design method;

- involvement of students to economic - business activity.

- increase of level of professional and special training of the professional staff as the most important condition of quality achievement of professional training of future teacher to the organization of profile training at 12-year school.

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