

Akmeological and Axiological Components of Profile Vocational Training of Engineers in the Conditions of Modern Technical Education

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Abstract

In the article akmeological and axiological components of profile vocational training of engineers in the conditions of modern technical education are considered. As a main objective of axiological component of profiling the choice of personally significant system of valuable orientations and personal meanings is allocated. Akmeological component of profiling assumes the accounting of social political and economic conditions for disclosure and manifestation of personal and professional opportunities and abilities of future engineer.

Keywords: akmeological component, axiological component, vocational training of engineers, modern technical education, profiling

1 Introduction

One of target reference points of vocational technical education development is transition from the developed traditional education system to continuous profile education, necessary for creation of socially oriented economy [1]. Based on provisions of the Concept of long-term social and economic development of the Russian Federation for the period till 2020, one of the main priorities of social and economic policy of the Russian Federation in the field of human development is «the structural and technological modernization of education and other branches of the social sphere providing availability of high-quality social services to the popu-

lation» [2]. The analysis of scientific psychological and pedagogical literature (T.P. Afanasyeva, E.V. Voronina, A.A. Kuznetsov, A.M. Novikov, A.A. Pinsky, M. M. Potashnik, N.F. Rodichev, etc.) testifies that achievement of these tasks is possible in the conditions of educational profiling providing strengthening practical and professional focused education orientation at preservation of bases of its fundamental nature. The concept of educational environment profiling is realized on differentiated basis of axiological, akmeological, personal and professional directed approaches, promoting changes in structure, content of educational process and providing innovative bases of its development.

2 Experimental study

Efficiency level of educational environment profiling was estimated on the basis of criterion of akmeological and axiological components of profile vocational training of engineers in the conditions of modern technical education.

The criterion of akmeological and axiological orientation of profile training was studied at the general education stage. Diagnostic tools were test techniques: «Diagnostics of school motivation of students», «The teacher – the student», «Orientation on knowledge acquisition», «Questionnaire of professional readiness», «Diagnostics of educational motivation structure» [3]. The following results are received (Table 1):

Table 1

Efficiency of educational environment profiling (according to criterion of akmeological and axiological orientation of profile vocational training) at the level of general education (the stating stage)

Manifestation level	Indicators											
	Motivation and orientation of students on educational activity		Value of mutual perception of pedagogical process participants		Possibility of culture and correlation of teacher and student		Awareness of the social importance of educational action		Readiness of student to show educational abilities in professional aspect		Level of culture development of educational work	
	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG
High	–	–	–	–	–	–	–	–	–	–	–	–
Middle	+	+	+	+	–	+	+	+	+	+	–	–
Low	–	–	–	–	+	–	–	–	–	–	+	+

Note: CG (Control group) – the participants of pedagogical process functioning in the educational institutions which aren't a part of a profile educational complex; EG (Experimental group) – the participants of pedagogical process functioning in the educational institutions which are a part of a profile educational complex

Efficiency of educational environment profiling according to criterion of akmeological and axiological orientation of profile vocational training was studied also at professional education stage. Indicators were the following opportunities of subject basis of pedagogical process: level of interaction competence of pedagogical process participants; valuable importance of level of teacher readiness for professional action; possibility of correlation of teacher professional culture and students orientation on professional activity; awareness of the professional importance of educational action; readiness of the students to correlate educational and professional actions; interrelation of educational and professional situation of self-determination of the identity. As diagnostic tools test techniques were chosen: «Studying of educational activity motives of students», «Motivation of training in higher education institution», «Diagnostics of level of self-development in professional activity», «Self-assessment of professional motivation» [3]. Results of studying of this criterion are reflected in table 2.

Table 2
Efficiency of educational environment profiling (according to criterion of akmeological and axiological orientation of profile vocational training) at the level of professional education (the stating stage)

Manifestation level	Indicators											
	Level of interaction competence of pedagogical process participants		Valuable importance of level of teacher readiness for professional action		Correlation of teacher professional culture and students orientation on professional activity		Awareness of the professional importance of educational action		Readiness of the students to correlate educational and professional actions		Interrelation of educational and professional situation of self-determination of the identity	
	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG
High	-	-	-	-	-	-	-	-	-	-	-	-
Middle	+	+	+	+	+	+	-	-	-	-	-	-
Low	-	-	-	-	-	-	+	+	+	+	+	+

The analysis of the stating experiment results allows to draw the following conclusion: The developed structure of versatile educational complex doesn't provide realization of conditions of regional system profiling. On the basis of modification of profile education system (inclusion in structure of profiling of establishments of preschool education; ensuring realization of horizontal communications between subjects of complex structure; ensuring realization of the principle of continuity in structure of interaction of complex sections on profiles;

inclusion in structure of educational complex of a component on purposeful staffing of profile educational institutions, etc.) the innovative structure of educational environment profiling is developed and realized.

Based on priority value of project activity in education (National educational initiative «Our new school», Concept of long-term social and economic development of the Russian Federation for the period till 2020), the realization of Concept of educational environment profiling was enabled on the basis of the social and pedagogical projecting including the following projects: «Integrative continuity of professional education», «Exceptional children» – architecture», «Complex stage-by-stage system of continuous practical training and employment of students of higher educational institutions» [4], etc.

Results of the considered criterion studying on completion of the forming experiment at a stage of general education are reflected in summary table 3. Proceeding from data of research, all indicators of the studied criterion are shown in experimental group at the high level.

Table 3

Efficiency of educational environment profiling (according to criterion of akmeological and axiological orientation of profile vocational training) at the level of general education (the productive and estimated stage)

Manifestation level	Indicators											
	Motivation and orientation of students on educational activity		Value of mutual perception of pedagogical process participants		Possibility of culture and correlation of teacher and student		Awareness of the social importance of educational action		Readiness of student to show educational abilities in professional aspect		Level of culture development of educational work	
	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG
High	–	+	–	+	–	+	–	+	–	+	–	+
Middle	+	–	+	–	–	–	+	–	–	–	–	–
Low	–	–	–	–	+	–	–	–	+	–	+	–

High level of indicator realization of motivation and orientation of students on educational activity, an indicator of awareness of the social importance of educational action by the student, indicator of students readiness to show educational abilities in professional significant aspect, indicator of development level of educational work culture is result of work on formation of personality readiness for activity in the conditions of educational environment profiling, namely: organization of pedagogical maintenance of the professional directed development of the students taking into account specific features, social and professional interests, abilities and requirements.

Increase of realization level of these indicators became possible also thanks to the work on formation of a self-sufficient subject basis of the personality organized in the conditions of profiling. High level of indicators of valuable mutual perception of pedagogical process participants and opportunities of culture correlation of teacher and student was reached on basis subject↔ subject relations of pedagogical process participants in the conditions of realization of profiling innovative structure of regional education system.

Efficiency of educational environment profiling according to criterion of akmeological and axiological orientation of profile vocational training was studied also at professional education stage (Table 4).

Table 4

Efficiency of educational environment profiling (according to criterion of akmeological and axiological orientation of profile vocational training) at the level of professional education (the productive and estimated stage)

Manifestation level	Indicators											
	Level of interaction competence of pedagogical process participants		Valuable importance of level of teacher readiness for professional action		Correlation of teacher professional culture and students orientation on professional activity		Awareness of the professional importance of educational action		Readiness of the students to correlate educational and professional actions		Interrelation of educational and professional situation of self-determination of the identity	
	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG	CG	EG
High	–	+	–	+	–	+	–	+	–	+	–	+
Middle	–	–	–	–	–	–	–	–	–	–	–	–
Low	+	–	+	–	+	–	+	–	+	–	+	–

The continuity of manifestation high level of all indicators at stages of the general (Table 3) and professional (Table 4) education is result of opportunities use of profile innovative structure (integration and coordination of educational institutions activity of various level in a question of the personality professional formation) on the basis of social and pedagogical projecting: «Integrative continuity of professional education», «Realization of the principle of preparation continuity in the conditions of versatile educational complex», etc.

3 Conclusion

The principle of education differentiation which is been the basis for educational environment profiling assumes the account in the course of training of specific fea-

tures, social and professional interests, abilities and needs of the personality of the students in all forms, methods, at all grade levels (individualization, personal and professional orientation of training); assistance in a choice of personal significant system of valuable orientations, personal meanings (axiological component of profiling); accounting of social political and economic conditions for disclosure and manifestation of personal opportunities and abilities (akmeological component of profiling).

Thus, realization of axiological and akmeological orientation of pedagogical maintenance of the personality promotes increase of efficiency of educational environment profiling at stages of general and professional education.

Axiological and akmeological components within these projects, since stage of general education, allowed to increase the level of professional importance awareness of educational action by students. Continuation of pedagogical maintenance of the professional directed development of students at qualitatively new level at a stage of professional education allowed to create their professional motivation and readiness to correlate educational and professional actions.

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