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# Practice-oriented model of estimating the competency formation in the system of economic education in view of the labor market needs

Modelo orientado a práctica de estimación de formación de competencias en el sistema de educación económica en vista de necesidades del mercado laboral

Viktor Nikolaevich GLAZ 1; Yuliya Aleksandrovna GLAZ 2; Tatyana Evgenevna POKOTILOVA 3; Elvira Antsasovna RUSETSKAYA 4; Oleg Viktorovich GLAZ 5

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#### **ABSTRACT:**

All over the world today, when discussing the main problems and directions of the development of the education system, significant attention is paid to key competencies that must be formed in accordance with the requirements of the labor market. Essentially, this is a social or public order, expressed in the need to prepare the society members for the modern realities of working life. The reforming of the Russian education system, currently underway throughout the country, is a step toward the modernization of various spheres of life in modern Russian society, where higher education should become one of the most important criteria for success and good prospects. The purpose of this study is to justify the application of a practice-oriented model for assessing the formation of competencies in the system of economic education. To achieve this goal, the

#### **RESUMEN:**

En todo el mundo de hoy, cuando se discuten los principales problemas y direcciones del desarrollo del sistema educativo, se presta una atención importante a las competencias clave que deben ser formadas de acuerdo con los requerimientos del mercado laboral. Esencialmente, se trata de un orden social o público, expresado en la necesidad de preparar a los miembros de la sociedad para las realidades modernas de la vida laboral. La reforma del sistema educativo ruso, actualmente en curso en todo el país, es un paso hacia la modernización de varios ámbitos de la vida en la sociedad rusa moderna, donde la educación superior debe convertirse en uno de los criterios más importantes para el éxito y buenas perspectivas. El propósito de este estudio es justificar la aplicación de un modelo orientado a la práctica para evaluar la

work clarifies the understanding of competencies as educational outcomes in the context of the Federal State Educational Standards for Higher Education (FSES HE). In the conducted study, the authors have substantiated that the formation of competencies as a result of mastering the educational program is a purposeful system process aimed at an integral effect of learning outcomes. Adhering to the position that a practice-oriented model for assessing the formation of competencies is relevant and can be applied to the system of higher economic education, the authors propose a structure of the educational program (on the example of the Bachelor's Degree program). In the study, particular attention is paid to the intermediate stage between the indicator of mastering the basic level of the formation of general cultural and general professional competencies and the indicator of an increased level of the formation of professional competencies. At this stage, the authors propose the creation of an "Educational supermarket" on the basis of the educational institution, which is the basis for building a dialogue between the employer (as an ordering customer of the educational result) and the higher education institution (as a supplier of the educational result).

**Keywords:** education, practice-oriented model, labor market, competence, competencies, educational supermarket.

formación de competencias en el sistema de educación económica. Para lograr este objetivo, el trabajo clarifica la comprensión de las competencias como resultados educativos en el contexto de los estándares educativos del estado federal para la educación superior (FSES él). En el estudio realizado, los autores han corroborado que la formación de competencias como resultado de dominar el programa educativo es un proceso de sistema útil dirigido a un efecto integral de los resultados del aprendizaje. Al adherirse a la posición de que un modelo orientado a la práctica para la evaluación de la formación de competencias es pertinente y puede aplicarse al sistema de educación económica superior, los autores proponen una estructura del programa educativo (en el ejemplo de la Programa de licenciatura). En el estudio, se presta especial atención a la etapa intermedia entre el indicador de dominar el nivel básico de formación de competencias generales de carácter cultural y profesional y el indicador de un mayor nivel de formación de competencias profesionales. En esta etapa, los autores proponen la creación de un "supermercado educativo" sobre la base de la institución educativa, que es la base para la construcción de un diálogo entre el empleador (como cliente que ordena el resultado educativo) y la educación superior institución (como proveedor del resultado educativo).

**Palabras clave**: educación, modelo orientado a la práctica, mercado laboral, competencia, competencias, supermercado educativo.

## 1. Introduction

The system of assessment of the specialist training quality, currently existing in Russia, is aimed at checking the knowledge of graduates on the individual disciplines studied within the educational program and, as a rule, the skills of its usage only in typical professional situations. At the same time, from the point of view of the labor market representatives, besides the purely professional knowledge and skills that characterize the graduate's qualification, the specialist also needs such qualities as initiative, cooperation, ability to work in a team, communication skills, ability and willingness to learn, evaluate, think logically, select and use the relevant information. And the most important thing is that the graduate who received the education diploma should be able to apply all these skills in his/her professional activities.

In our study, a practice-oriented model for evaluating the quality of graduate training, developed for the Bachelor's Degree students in the "Economics" training direction, is considered.

#### 2. Methods

Changing the modern educational goals, the competence approach sets new benchmarks in the content and results of education. In the educational process of the higher education institution, the primary task will be not the formation of certain knowledge and skills, but the integration of knowledge and practice as the basis for the graduate's ability to use the knowledge and experience acquired in the course of training in solving professional problems, excluding their opposition.

Competencies are defined through such concepts as the result and the criterion of the specialist training quality, special abilities, the personal component of professionalism, knowledge, skills, qualities and characteristics of personality.

In other words, competency can be determined as a preset requirement for the student's educational preparation, and the individual's acquired ability to independently fulfill certain life

requirements, to act correctly and reasonably when achieving goals and in the specific conditions determined by the situation.

The conducted study is based on general scientific methods of theoretical cognition, observation, experiment, analysis, analogy and generalization.

Each of these methods was used adequately to its functional capabilities and ensured the representativeness of the research results, the reasonableness of the assessments, the reliability of the conclusions and propositions.

# 3. Theoretical aspects of the study

According to Art. 2 of the Federal Law No. 273-FZ of December 29, 2012 (version of July 29, 2017) "On Education in the Russian Federation":

- "education is an integral purposeful process of upbringing and training, which is a socially significant good and is carried out in the interests of the individual, family, society and the state, as well as the totality of acquired knowledge, skills, value orientations, activity experience and competence of a certain scope and complexity for the purposes of intellectual, spiritual, moral, creative, physical and (or) professional development of the person, satisfaction of his/her educational needs and interests;
- vocational education is the type of education that is aimed at the students' acquiring the knowledge and skills in the process of mastering the basic professional educational programs, and the formation of competence of a certain level and scope that allow them to carry out professional activities in a certain field and/or perform work according to a particular profession or specialty";
- the education quality is a complex characteristic of the educational activity and training of the student, expressing the degree of their compliance with federal state educational standards, educational standards, federal state requirements and (or) the needs of the individual or legal entity in the interests of which educational activities are carried out, including the degree of attaining the planned results of the educational program".

#### What is the purpose of education?

In the "Akademik" dictionary, the purpose of education is understood as "the planned results of pedagogical activity, consisting in providing such development and such conditions that will enable the student to reveal and bring to full bloom his/her potential capabilities (physical, spiritual and intellectual) that he/she possesses as a member of society.

The goals are divided into: the training goals – the scope and level of mastering knowledge and the formation of skills and abilities, identified in the curriculum; the upbringing goals – the formation of character traits, value orientations, volitional qualities, the mastering of standards of social behavior and interpersonal interaction; the goals of development – enrichment of the spiritual world, cognitive and intellectual-creative abilities, improvement of perception, attention, memory, and thinking. The goals of education are conditioned by social requirements and act as a means of achieving them" (Akademik" Dictionary).

In the pedagogical dictionary, the goal of education is treated as "an educational ideal, determined by a social order and implemented through various approaches. An extensive model of the goal of education is the transmission of the fullest possible amount of accumulated experience and cultural achievements, assistance to the student in self-determination on this cultural basis. A productive model is the preparation of the student for the types of activities in which he/she will be engaged in, and for the structure of employment that supports the development of the social community and his/her own development. An intensive model is the preparation of students on the basis of the development of their universal qualities that concern not only the mastering of certain knowledge, but also their constant improvement and development of their own creative potencies" (Pedagogical dictionary).

The dictionary-reference book on philosophy defines the external goal of education as a state-social institution as "the life-support of society in concrete historical conditions, the development of its productive forces, the general culture, the strengthening of the civil status of relations (citizenship) and the moral-legal foundations of the society members" (Dictionary-reference book on philosophy).

In our opinion, the main goal of education, in relation to the education system itself, should be the training of a competent specialist who is able to adapt quickly when the needs of the labor market change.

Let us try to understand the conceptual apparatus, since for the system of Russian education the concepts of "competence" and "competency" are relatively new and serve as links for a large number of theoretical and practical disciplines. Each of the two reveals a specific content; however, in a variety of works by Russian authors there is confusion in their distinction.

**Table 1**Comparative characteristics of the "competence" and "competency" concepts in the dictionaries of Russian authors

SOURCE	COMPETENCE	COMPETENCY
Ozhegov's Explanatory dictionary	Knowledgeable, well-informed,     authoritative in a certain field. 2.     Possessing competency.	The circle of issues with regard to which someone is well-informed.
Business dictionary	From the Latin <i>competens</i> – relevant knowledge, experience, education in a certain field of activity.	Range of powers, the right to make decisions of a state body, an official, stipulated by laws, regulations and instructions.
Psychological dictionary	It is the ability to do something well or effectively; it is the ability to adhere to an established standard applied in a certain profession.	The circle of problems, the sphere of activity in which a person has knowledge and experience; a set of powers, rights and duties of an official, a public organization; personnel management is to manage the process of acquiring, stimulating and developing the competency of the organization personnel.
Economic dictionary	Manifested personal qualities and demonstrated ability to apply knowledge and skills.	The totality of powers, rights and duties of a state body, an official, a body of public organization or public initiative of citizens.
Economic dictionary	<ol> <li>Possession of competency;</li> <li>Possession of knowledge allowing making judgement about something.</li> </ol>	The necessary abilities or conformity with someone's needs. Possessing the abilities necessary to achieve a specific goal or complete a project.

According to the presented table of comparative characteristics of the concepts, competence is defined as the person's ability to adequately act in certain situations; whereas, the boundaries of competence depend on the person's ability to learn and readiness to apply knowledge and skills in a profession or situation. Competence is an individual characteristic of the person; whereas competency is a field which the person should understand and which boundaries are set by a certain collection of authorities. The competency is fixed by the standard norm and, in

the organizational context, is regulated by the functional duties of the person.

Analysis of the psychological-pedagogical literature (A.V. Khutorskoi 2007), A.G. Bermus 2008, V.A. Bolotov and V.V. Serikov 2003, V.N. Vvedensky 2004, G. B. Golub and E.A. Perelygin 2012, J. Raven 2002, G.K. Selevko 2006, Yu. S. Kostrov 2011, etc.) showed that, despite the fairly frequent use of the considered categories in pedagogical practice, there is at present no clear interpretation of the "competence" and "competency" terms. Besides, the opinions of scientists differ regarding the correlation of these categories, their classification and kinds.

In Table 2 we consider some scientific definitions of these concepts.

Table 2
Characteristics of the concept of "competence" in the scientific literature

Author	or Definition	
Raven J.	Competence is treated as a life success in a socially significant field. The author singles out 39 kinds of competencies, which he identifies with "motivated abilities". Among them: ability to self-education, self-control, critical thinking, readiness to solve complex problems, self-confidence, perseverance, ability to work together, personal responsibility and others.	
Khutorskoi A.V.	From the point of view of the author, competence is "the possession of the relevant competency, the totality of the personal qualities of the student, conditioned by the experience of his/her activity in a certain socially and personally significant area".	
Selevko G.K.	Competence is not just a collection of knowledge, skills, and personal qualities but the ability to use them in a specific situation. This is "a measure of the person's ability to engage into activity".	

We agree with all authors and believe that a competent specialist should have knowledge and skills in terms of diverse competencies and life success in a socially important field, have motivated abilities, be mobile and be able to manifest flexibility in decision-making.

Rather transparent in its basic ideas, the competence approach acquires a multivariant character in practice, which implies a plurality of scenarios for its implementation, depending on the subjects involved in the vocational education process, regional needs, the level of education, directions, training profiles, etc. The ideology of the competence approach presupposes the formation of competencies as a practice-oriented result of education reflected in the ability to successfully cope with a certain range of professional tasks.

Thus, the formation of competencies as a result of mastering the educational program is a purposeful system process aimed at the integral effect of learning outcomes. Since the key word in this definition is "process", it should provide for possible decomposition into component parts with the identification of intermediate results. We also consider it necessary that the representatives of potential employers participate at all stages of this process.

#### 4. Results and discussion

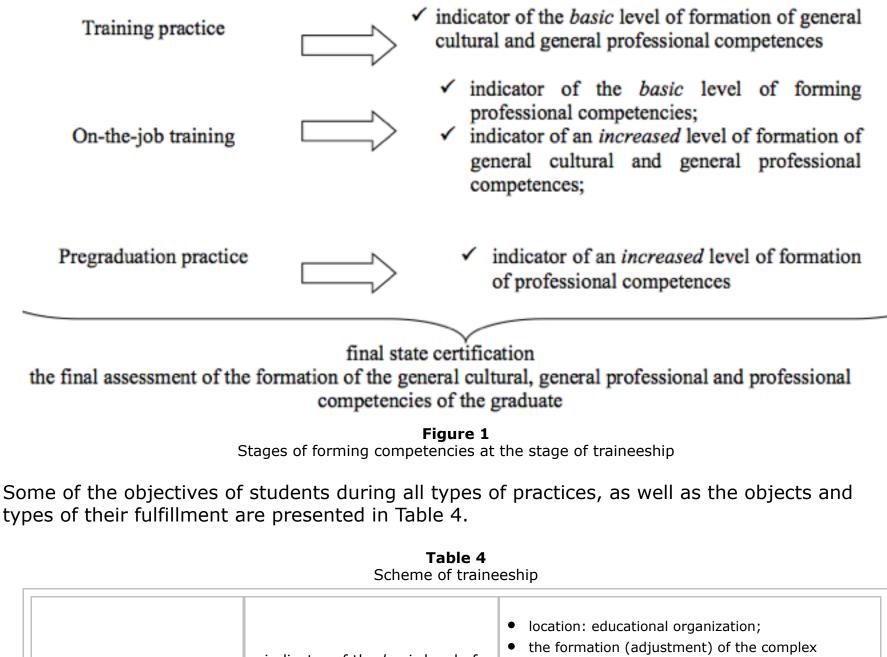
As a result of the research conducted by the authors, it was revealed that the practice-oriented model was the most acceptable for the system of higher economic education.

In Table 3, we proposed the following structure of the educational program (on the example of the Bachelor's Degree program).

**Table 3**Structure of the educational program

1st-2nd years	Disciplines of the basic part	<ul> <li>Disciplines that form the basic level of general cultural competences;</li> <li>Disciplines forming the basic level of general professional competencies;</li> <li>the beginning of training (in the 4th semester) in the disciplines that form the basic level of professional competencies.</li> </ul>	
	Disciplines of the variable part	Disciplines that form a higher level of general cultural and general professional competences.	
	f the <i>basic</i> level of formation of general d general professional competences	Training practice	
3d year	Disciplines of the basic part	Disciplines forming the basic level of professional competencies;	
	Disciplines of the variable part	<ul> <li>Disciplines that form a higher level of general professional competences.</li> <li>Disciplines that form a higher level of professional competences (profile)</li> </ul>	
indicator of the <i>basic</i> level of the formation of professional competencies and an <i>increased</i> level of formation of general cultural and general professional competences		On-the-job training	
4th year	Disciplines of the variable part	Disciplines that form a higher level of professional competences (profile)	
indicator of an <i>increased</i> level of formation of professional competences		Pregraduation practice	
Assessment of the formation (result) of general cultural, general professional and professional competences		Final state certification	

In more detail, we will consider the possibilities of a practice-oriented model using various kinds and types of practices (see Fig. 1):



Training Practice (stationary, concentrated)	indicator of the <i>basic</i> level of formation of general cultural and general professional competences	<ul> <li>location: educational organization;</li> <li>the formation (adjustment) of the complex integrated practice assignments;</li> <li>introductory excursions to enterprises (organizations) of various types of economic activity;</li> <li>organization of meetings with leading specialists in various spheres of professional activity.</li> </ul>
On-the-job training (stationary, dispersed)	indicator of the <i>basic</i> level of the formation of professional competencies; indicator of an <i>increased</i> level of formation of general cultural and general professional competences	<ul> <li>Location: educational organization;</li> <li>the "Educational Supermarket" project, an approximate scheme of which is shown in the figure below. It will allow the student to perform a separate labor function of the specialists in various spheres of professional activity working at enterprises (organizations) of various types of economic activity.</li> </ul>
Creation of "EDUCATION scheme 1.  Pregraduation practice	AL SUPERMARKET", a concise  indicator of an <i>increased</i> level of formation of professional	<ul> <li>location: enterprises (organizations) of various types of economic activities, financial, credit and insurance institutions, state and municipal</li> </ul>
(stationary or onsite, concentrated)	competences	authorities.  • collection, systematization and analysis of

Particular attention in the presented scheme should be given to an intermediate stage between mastering the indicator of the basic level of formation of general cultural and general professional competencies and the indicator of an increased level of formation of professional competencies. At this stage, we propose to create an educational laboratory on the basis of educational organization. For students of economic training profiles, we propose to create an "Educational Supermarket" (see Scheme 1); for legal specialties it can be "Legal Clinic", etc.

Scheme 1.
Scheme of activity of an "Educational supermarket"

Training by managers (specialists) and constant communication with them commission fee Enterprise Credit department (organization) Educational Supermarket Agency contract Insurance Potential employers department Acceptance of an State and municipal Accounting application authorities department processing Analytics finding solution department Financial, credit and insurance Marketing decision making institutions department decision making

Online service, telephone service, Office service

The "Educational Supermarket" model proposed by us on the basis of the educational organization has certain positive aspects, which are reflected in Table 5.

**Table 5**Positive factors of creating an educational supermarket on the basis of educational organization

For the customers of services (enterprises, insurance companies, banks, executive bodies, etc.)	For educational institutions and students	For people
- no need to create additional jobs;  - expansion of sales channels;  - expansion of the clientele;  - maintaining loyalty when changing preferences of consumers of financial services, including when developing an	<ul> <li>improving the quality of education;</li> <li>the possibility of mastering additional competencies;</li> <li>raising the level of prestige of the educational institution;</li> </ul>	- selection of the optimal necessary product or service (credit, insurance, bank insurance, filling out a declaration, marketing research, etc.); - saving time;

unconventional way of evaluating the effectiveness of financial and innovation	<ul> <li>the possibility of student practices and traineeships;</li> </ul>	- individual approach to the client;
activities of commercial organizations on the basis of stochastic modeling (Manuylenko, et al. 2017);	<ul> <li>additional income for students without quitting the studies.</li> </ul>	- increasing the financial literacy of population.
- training of qualified young cadres.		

To organize the work of an educational supermarket, the educational organization (as the party in interest in the work of this structural unit) undertakes to provide premises and necessary equipment (Rusetskaya, Rusetsky & Ushakova 2015).

The procedure for customer service can include several directions:

- Online service involves the work of specialists (coordinators in the directions of the declared profile activities and trainees) in solving the following issues:
- preparation of the client's request for the search of optimal options for financial products and rendering other services;
- solving the issue concerning an opportunity of carrying out a marketing research or sociological survey;
- filling in various kinds of declarations;
- the work of the technical-information block on the creation and effective operation of the site of educational supermarket on the basis of the educational organization.

The telephone service begins with the administrator's answering the call. The role of the administrator is played by the specialist who has relevant knowledge in all areas of activity of the educational supermarket, who takes all necessary information from the client to make a further decision on the possibility of providing the service. Further, the administrator transfers all the data to the corresponding department of the supermarket, where the request is assigned to the executor or group of executors (trainees), and a person responsible for the execution control (teacher or representative of the employer) is appointed. Simultaneously, the administrator maintains a database of all serviced customers, where the information about the time of submitting the request, the customer, the service or product, the executor (s) of the request, the timing of its execution, the final provider of the service/product, etc. is reflected.

- The "office" service also includes the reception of the request by the administrator and consulting the client. At the same time, the processing of the request does not exclude the possibility of consulting the manager of cooperating profile organizations. After processing the request, the client (in the "office", online, by phone) is provided with at least 3 options for resolving the financial issue (a certain product/service, a company), with a detailed explanation of each option. After the client's making a choice, the relevant specialist accompanies the deal to the final result the purchase of the needed product.
- Also within the framework of "office" service, the implementation is supposed of the programs of financial literacy of the population. Within the framework of this activity of the "Educational Supermarket", specialists will conduct seminars and master classes on various financial issues.

At the same time, for the sake of simplicity and convenience of working with clients' requests, the activity will be coordinated with respect to specific directions (industry specifics, types of services, their complexity, etc.). To work in the educational supermarket, students will undergo a certain selection (testing for knowledge of the general professional concepts and categories, interview with a supervisor or coordinator).

To attract customers and the development of the "Educational supermarket" on the basis of the educational organization, it is assumed to use Internet advertising, regional television and radio broadcasting, advertising in social networks, banner advertising, advertising in partner offices, and also, by agreement with a partner, it is possible to apply small discounts on the product/service for customers.

At the same time, like any other financial institution, this model does not exclude the presence of risks, among which one should name:

- concentration risks of the "Educational supermarket", which are associated with the prevalence of a certain type of financial services, or with the promotion of only one provider of certain financial services;
- risks of decreasing the sales volumes due to falling the demand for financial services, including due to reducing the purchasing power of consumers;
- risk of loss of business reputation by the subjects of the educational supermarket because of failure to fulfill or improper fulfillment of obligations by each of them;
- legal risks;
- risk of damage or destruction of the supermarket property;
- risk of non-payment of commission on the part of financial service providers.

Having studied the positive sides and risks of this project, we believe that the positive sides of creating a regional "Educational supermarket" on the basis of an educational organization prevail. The activity of the "Educational Supermarket" will bring a significant positive effect both for insurance companies, banks and other financial institutions, and for the educational organization and students. At the same time, within the framework of this project, the endusers will be able to get, without spending much time, an optimal financial service for them with appropriate explanations of all the subtleties and specifics. Also, with the effective organization and management of the "Educational Supermarket", it is possible to significantly minimize all of the above-mentioned risks.

#### 5. Conclusion

The proposed practice-oriented model for assessing the formation of competencies of the graduate is suitable for use as a basis for designing a professional educational program, and, in the future, developing the directions for its development. But, at the same time, its application requires some adjustments, and, in some cases, a revision of methodological and didactic approaches to the organization and conduct of different kinds and (or) types of practices.

#### **Conflict of interest**

The authors confirm that the presented data do not contain a conflict of interest.

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- 1. Stavropol Institute of Cooperation (Branch), Belgorod University of Cooperation, Economics and Law (BUKEP), 355035 Russia, Stavropol, Goleneva Str., 36, E-mail: Vikt.g@yandex.ru
- 2. Stavropol Institute of Cooperation (Branch), Belgorod University of Cooperation, Economics and Law (BUKEP), 355035 Russia, Stavropol, Goleneva Str., 36, E-mail: glazja@gmail.com
- 3. North Caucasus Federal University (NCFU), 355009, Russia, Stavropol, Pushkina Str., 1, E-mail: t.pokotilova@gmail.com
- 4. North Caucasus Federal University (NCFU), 355009, Russia, Stavropol, Pushkina Str., 1, E-mail: elvirasgu@mail.ru
- 5. Stavropol Institute of Cooperation (Branch), Belgorod University of Cooperation, Economics and Law (BUKEP), 355035 Russia, Stavropol, Goleneva Str., 36, E-mail: glazoleg@gmail.com

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