

Features of the Creative Abilities’ Formation of Undergraduates in the Context of the Requirements of Professional Standards in the Field of Physical Education and Sports

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Abstract— The article considers the scientific problem of the contradiction between the economically and socially determined need for the formation of creative abilities among professionals in the field of physical education and sports and the lack of developed technologies for the implementation of such a formation in the course of undergraduate training. As a result of a survey of trainers and leaders of organizations in the field of physical education and sports, it was found that the percentage of need for all the creative abilities considered is higher than the percentage of the levels of their formation, both after studying at a university and during personal experience of professional activity, like with trainers, and among leaders of organizations in the field of physical education and sports. This fact proves that in the course of obtaining a higher education these issues are not considered or are considered insufficiently, while immersion in activities and work in the profession cannot fully compensate for these gaps. Thus, we have the right to assert that in the field of physical education and sports, within the framework of the next generation of federal state educational standards of higher education, it is proposed to include such competencies, which correlate with the formation of creative abilities among graduate students.

Keywords: *educational standard, formation, creative abilities, magistracy, staff*

I. INTRODUCTION

A. Definition of concepts

Highest-achievements’ sports – a direction in the social practice of sports, orienting athletes to absolute sports results (achievements) and a steady increase in their level, subject to many years of daily expenditure of time and effort on sports’

activities and subject to outstanding sports’ giftedness of dealings [1, 2].

Creativity is an activity, the purpose of which is to produce the most adequate to the considered stage and, accordingly, the praxiologically correct (optimal) solution to the actual problem, the implementation options for which may include: creation of a fundamentally new product; adoption of an original or identification of an implicit (non-standard – non-obvious for stereotypical thinking) decision; transformation of the known into the extraordinary due to the use of an approach that is not characteristic of this case (the activity is optimizing in nature) [3, 4].

One of the key phenomena of the theory of creativity is giftedness: 1) as a construct, which determines high success in the activity; 2) as hypertrophied inclinations (natural giftedness or giftedness in the narrow sense of the word); 3) as a hypertrophied ability (cultural giftedness or giftedness in the broad sense of the word, acquired in an activity, but based on inclinations, depending on their level) [3, 4].

The presence in the definition of the concept of “highest-achievements’ sports” of the concept of “sports’ giftedness” as a determining factor for the success of the activity, that is, a factor in the level of sports’ achievements and the prerequisites for the scale of sports’ records, allows us to state that highest-achievements’ sports are a sphere of creative activity in connection with that one of the key concepts in the theory of creative activity is “giftedness” (a hereditary factor considered by sports’ genetics [5]).

II. LITERATURE REVIEW

A. *Determining the relevance of the study.*

Fair assessment in the education system is always a problem. This happens, at least due to the fact that educational programs do not include in full the disciplines that teach future educators strategies and assessment technologies. On the one hand, evaluation should be continuous. On the other hand, it is important what characteristics (indicators) are evaluated, and by what criteria, the formation of each indicator is evaluated. Thus, the main responsibility concerns the result of the assessment, and the main thing is to identify ways to improve the quality of both education and assessment systems [6].

So at the present stage, educators offer a comprehensive assessment system, adapted to the tasks of sustainable development programs of society. The world pedagogical community offers multidimensional systems for assessing competency, which link impact, process, results, observation and improvement of educational programs. Such a comprehensive assessment makes it possible to take into account both the degree of achievement of the goals of educational management and the development of educational potential, and to evaluate the sustainability of the development of the educational system. Of particular importance is the assessment of the degree of influence of national education systems on the long-term results and consequences of the development of national economic systems, which is of particular importance in ensuring interdisciplinary and interagency interactions, while mobilizing resources for improving socio-economic development programs [7].

Today, educators attach great importance to the formation of the general competencies of specialists, the achievement of which is based on the enthusiasm and motivation of both educators and students. However, the problem is that the amount of hours provided for this is too small [8].

In particular, the formation of a culture of integrity is extremely relevant. Obviously, such broader attributes of integrity, as personal and social responsibility, as well as honesty, both of a citizen and a specialist, determine the moral and ethical level of the society in which we live, and they allow the transmission of cultural values to future generations [9].

In other words, academic values are considered as a kind of standard that allows you to maintain society at the level of civilization that it needs and is inherent in, increasing the relevance of higher education, on the one hand, and managing the ratings of educational organizations, on the other hand [10]. In the context of the modern understanding of the human phenomenon in the philosophy of education, its place and role in the education system, the analysis of humanistic foundations and ideological bases of modern education, this fact takes on particular urgency [11].

It is especially interesting to consider such issues in the light of the analysis of indicators used to assess the reputation and ratings of educational organizations that determine the quality of higher education in general, its fate, the

consequences for the development and improvement of a scientific and pedagogical institute [12].

However, from our point of view, for a specialist, of course, not only general, but also special competencies (abilities) that determine his professional qualities, suitability and effectiveness are important.

B. *Highest-achievements' sports as a sphere of creative activity: theoretical and methodological discourse on a scientific problem.*

So, the leading professional (special) competence, in our opinion, is the ability to creatively solve situations that arise in a variety of professional activities.

Of course, this is extremely important for sports activities, due to the fact that highest-achievements' sports are considered as a sphere of creative activity. Therefore, both athletes and coaches must have special creative abilities.

In other words, pedagogical creativity in modern highest-achievements' sports is considered as an innovative pedagogical technology that allows you to control the athlete's creativity, bringing it closer to achieving the highest sports results [13]. And sports' creativity can be considered as a mechanism for solving difficulties and problems that arise during sports' training [14]. To some extent, it is an instrument of psychological correction and an activator of sports motivation [15]. On the other hand, creativity is manifested by the athlete during the development of motor actions, in particular, both when adapting to a new action during the formation of a new functional system in the body, and in the process of improving the ability to perform selected motor actions in various conditions and non-standard situations [16].

Thus, it is logical that pedagogical creativity in physical education, in turn, allows you to manage the training of specialists (bachelors and masters), updating the formation of professional abilities that they can use to optimally solve various non-standard situations and tasks of immediate operational work.

A contextual analysis of Russian dissertational researches for the degree of Doctor of Sciences on the subject of highest-achievements' sports as a sphere of creative activity showed that the main scientific problems, the solution of which attracted researchers in this field, are the following:

- the problem of clarifying the correct understanding of the content and using in the theory of physical education and sports of concepts – variability, motor talent and abilities, as well as the development of a new concept for managing the training process using the concepts of a motor task and its characteristics (V. V. Gozhin) [17];
- the problem of the structure and content of sports' selection and its component – diagnostics of sports' giftedness, as well as rational planning of physical education of each teenager in accordance with his individual inclinations and natural capabilities,

manifested in the characteristics of giftedness to a particular sport (I. Yu. Sokolik) [18];

- problems: 1) determining the nature and content of readiness for creative training in motor actions, which is a strategic target for teaching sports' and pedagogical disciplines; 2) the formation of this readiness in the process of teaching sports' and pedagogical disciplines; 3) improving the pedagogical system of teaching the technique of competitive exercises included in the content of various sports (G. L. Drandrov) [19].

III. RESEARCH METHODOLOGY

Research methods (according to the classification of B. G. Ananyev in the modification of E. R. Yakhontov [20] for sports and pedagogical research and the author's supplement): comparative method, case studies, survey method (in the form of questionnaire), frequency analysis, analysis of contingency tables, genetic method, theoretical modeling.

IV. DOCUMENTS' ANALYSIS RESULTS

A comparative analysis of Russian educational standards in the field of physical education and sports over the past ten years allows us to conclude that documents of this kind are being modernized towards simplification and primitivization (Table I).

TABLE I. RUSSIAN FEDERAL STATE EDUCATIONAL STANDARDS OF HIGHER EDUCATION FOR THE MASTER'S LEVEL AND THE FORMATION OF SPECIAL CREATIVE ABILITIES IN THE FIELD OF PHYSICAL CULTURE AND SPORTS AS COMPETENCIES

Russian Federal State Educational Standards of Higher Education	Creative Competences	
	Definition	Kind
Federal State Educational Standard of Higher Professional Education	is able to produce creative ideas, theoretically substantiate them, referring to modern scientific views, correctly, concisely and reasonably uphold, translate into professional activities in temporary detention facilities	profile professional competence PPK-1
Federal State Educational Standard of Higher Education	ability to make non-standard decisions	general cultural competency OK-8
	ability to solve non-standard problems in the process of training athletes	professional competency PK-12
Federal State Educational Standard of Higher Education of Generation 3+	the ability to solve non-standard problems in the process of training athletes	professional competency PK-9
Federal State Educational Standard of Higher Education of Generation 3++	no mandatory competencies	

In particular, the obvious requirements that follow, both from the results of modern Russian scientific research in this

field [21, 22, 23, 24, 25, 26, 27], and from the content of professional standards (Tables II, III and IV) [28, 29], suggest that the specialist should be able to quickly and efficiently solve any non-standard situations, explain his actions if necessary, apply creative abilities in the process of managing the pedagogical process, are excluded from the mandatory requirements of educational standards in this field. The responsibility for the formation of these abilities is secretly transferred to educational organizations, which provokes the formation of staff of different competencies: both effective and different. This approach does not hold water.

TABLE II. GENERALIZED LABOR FUNCTIONS OF PROFESSIONAL STANDARDS RELATED TO THE FORMATION OF SPECIAL CREATIVE ABILITIES IN THE FIELD OF PHYSICAL EDUCATION AND SPORTS

Professional Standard "Trainer"		Professional Standard "Leader of Organization (Units of the Organization) in the Field of Physical Culture and Sports"	
The code	Definition	The code	Definition
G	Leadership for the replenishment and training of a sports' reserve	E	Leadership for sports' training
H	Preparation of the sports' team of the Russian Federation by sport (sports' discipline, group of sports' disciplines) for performances at official and international sports' competitions	-	

TABLE III. LABOR FUNCTIONS OF PROFESSIONAL STANDARDS (AND THEIR PROJECTS) RELATED TO THE FORMATION OF SPECIAL CREATIVE ABILITIES IN THE FIELD OF PHYSICAL CULTURE AND SPORTS

Professional Standard "Trainer"		Professional Standard "Leader of Organization (Units of the Organization) in the Field of Physical Culture and Sports"	
<i>The code</i>	<i>Definition</i>	<i>The code</i>	<i>Definition</i>
G / 01.7	Organization and monitoring of the preparation of a sports reserve by type of sport (sports discipline, group of sports disciplines)	E / 01.7	Current planning of sports training
G / 02.7	Management of the system for identifying promising athletes and conducting selection to replenish the sports' reserve of the sports' team of the Russian Federation for a sport (sports' discipline, a group of sports' disciplines), the subject of the Russian Federation for a sport (sports' discipline, a group of sport' disciplines)	E / 04.7	Leadership training, educational and methodological activities in the implementation of sports' training
H / 01.7	Monitoring the process of selecting athletes for the sports' national team	E / 06.7	Organization of control and accounting of sports' training
H / 02.7	Athletes training's management for the sports' team	-	
H / 03.7	Management of the competitive activities of the sports' team		
H / 04.7	Coordination and control of the work of trainers, specialists involved in the training of athletes of the sports' team		

TABLE IV. EXAMPLES OF INDICATORS OF MASTERY OF LABOR FUNCTIONS OF PROFESSIONAL STANDARDS (AND THEIR PROJECTS), RELATED TO THE FORMATION OF SPECIAL CREATIVE ABILITIES IN THE FIELD OF PHYSICAL CULTURE AND SPORTS: KNOWLEDGE, SKILLS, LABOR ACTIONS / EXPERIENCE AS EDUCATIONAL ACHIEVEMENTS

Professional Standard "Trainer"		Professional Standard "Leader of Organization (Units of the Organization) in the Field of Physical Culture and Sports"	
<i>The code</i>	<i>Definition</i>	<i>The code</i>	<i>Definition</i>
Knowledge			
K_G / 01.7	Factors affecting the quality of training of a sports' reserve by sport, ways to minimize and eliminate the negative consequences of the identified factors	K_E / 01.7	Content and ratio of the volume of the training process by type of preparation
	The system of factors ensuring the effectiveness of the sports' reserve's training system	-	
Abilities			
A_G / 01.7	To draw up methodically substantiated recommendations for trainers and sportsmen of sports' national teams for a sport (sports' discipline, a group of sports' disciplines), for specialists of organizations engaged in activities in the field of physical culture and sports on the organization of training of a sports' reserve, advise them	A_E / 01.7	To substantiate the motives of the decisions made
Labor action / experience			
LA_G / 01.7	Development of proposals for the adjustment of additional pre-vocational programs in the field of physical education and sports, and sports' training programs in organizations preparing a sports' reserve	LA_E / 01.7	Development of a strategy for planning activities for sports' training

V. EMPIRICAL RESEARCH RESULTS

Diagnostics of the relevance of applying creative abilities in the professional activities of trainers and leaders of organizations in the field of physical education and sports.

A. Results from descriptive statistics (frequency analysis)

In the course of a survey (questionnaire) of trainers, the relevance of the necessity for formation was identified, as well as the levels of formation of the following creative abilities in them:

- the ability "to plan (to propose and justify) options for successfully overcoming non-standard situations that arise in the training and competitive processes, showing special creative abilities" (creative ability CA_T_1);
- the ability "to explain in an accessible and exciting way non-standard / innovative solutions to problems arising in the training and competitive processes" (creative ability CA_T_2);
- the ability to "use the functions, methods and techniques of imagination in the management of improving the skills of athletes to perform selected motor actions" (creative ability CA_T_3).

During the survey (questionnaire) of the leaders of organizations in the field of physical culture and sports, the relevance of the necessity for formation, as well as the levels of formation of their following creative abilities, were revealed:

- the ability "to plan (to propose and justify) options for successfully overcoming non-standard situations that arise when managing the labor process in a sports' and athletic organization, showing special creative abilities" (creative ability CA_L_1);
- ability "to explain in an accessible and exciting way non-standard / innovative solutions to labor management problems in a sports' organization" (creative ability CA_L_2).

The assessment of the compliance of each statement with the respondent's opinion was carried out in points: from one point (with the least compliance) to five points (with the highest compliance). Then, for all respondents, the sum of the points scored by each statement (accumulated points) was revealed, and the percentage of the total points scored from the maximum possible to gain the sum of points for each statement was determined based on the number of respondents. The magnitude of this percentage for each statement and conclusions are drawn.

A survey of coaches and leaders of organizations in the field of physical education and sports allows us to recognize the validity of the following statements.

It was revealed (Figures 1, 2, and 3) that the percent of necessity for all the creative abilities considered is higher than the percentage of the level of their formation, both after studying at a university, and during the personal experience of

professional activity, both among trainers and leaders of organizations in the field of physical education and sports. This fact proves that in the course of obtaining a higher education these issues are not considered or are considered insufficiently, while immersion in activities and work in the profession cannot fully compensate for these gaps.

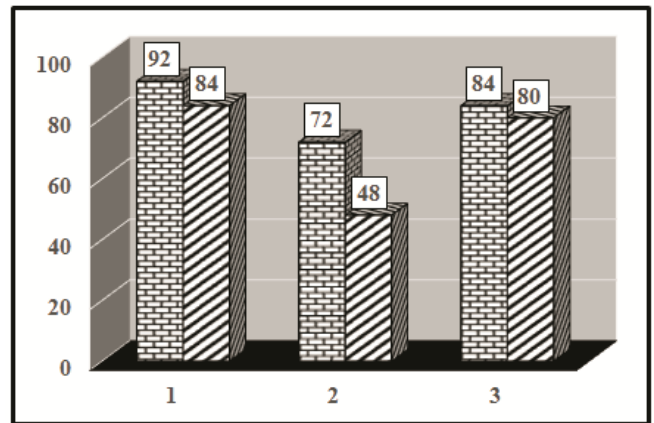


Fig. 1. The ability to plan creative solutions to professional tasks of trainers and leaders of organizations in the field of physical education and sports (%), (filling "bricks" - trainers, filling "strips" - leaders of organizations in the field of physical education and sports; 1 - the need for ability, 2 - the formation of ability after graduation, 3 - the formation of ability at the present time in the course of personal experience)

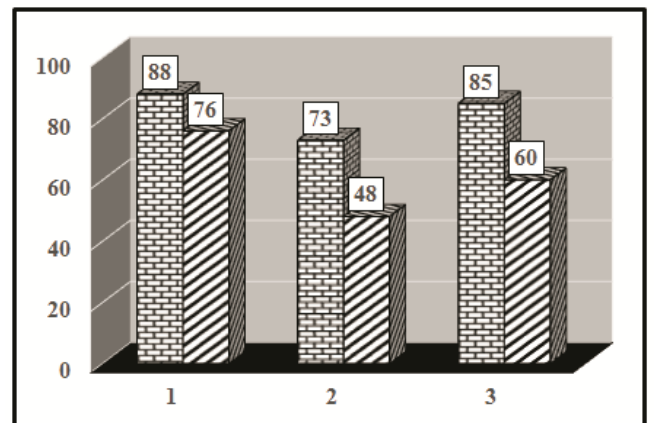


Fig. 2. The ability to explain creative solutions to professional problems with trainers and leaders of organizations in the field of physical education and sports (%), (filling "bricks" - trainers, filling "strips" - leaders of organizations in the field of physical education and sports; 1 - the need for ability, 2 - the formation of ability after graduation, 3 - the formation of ability at the present time in the course of personal experience)

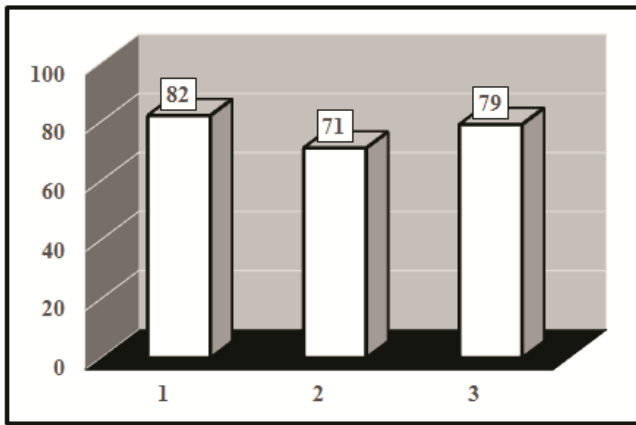


Fig. 3. The ability to use the functions, methods and techniques of imagination of trainers in the management of improving the skills of athletes to perform selected motor actions (%), (1 - the need for ability, 2 - the formation of ability after graduation, 3 - the formation of ability at the present time in the course of personal experience)

B. Results from explanatory statistics (analysis of contingency tables)

It was established that the training category is interconnected with the labor experience, which is interconnected with the pedagogical experience and age of the trainer, the latter is interconnected with the level of education and the sports category of the trainer, while the level of education is interconnected with the gender of the trainer (Fig. 4).

The level of education of the trainer and the sports category are interrelated with his ability to plan actions in non-standard situations, acquired through personal experience.

The sports category of a coach is interconnected with his ability to use the methods of imagination in teaching acquired through personal experience.

The gender of the trainer determines his ability to explain non-standard solutions of problems acquired during teaching at the university.

The ability to plan actions in non-standard situations and use the methods of imagination in teaching acquired through personal experience are determined by the understanding of the necessity to use them to ensure the required activity.

The ability to plan actions in non-standard situations is interconnected with the ability to explain non-standard solutions of problems, and the latter is interconnected with the ability to use the methods of imagination in teaching, and, in general, we are talking about the abilities acquired during teaching at the university and the abilities acquired during personal experience.

The ability to explain non-standard solutions of problems acquired during teaching at the university, on the one hand, is determined by the understanding of the necessity to use it to ensure the required activity, and, on the other hand, is interconnected with the ability to use imagination methods in teaching acquired through personal experience.

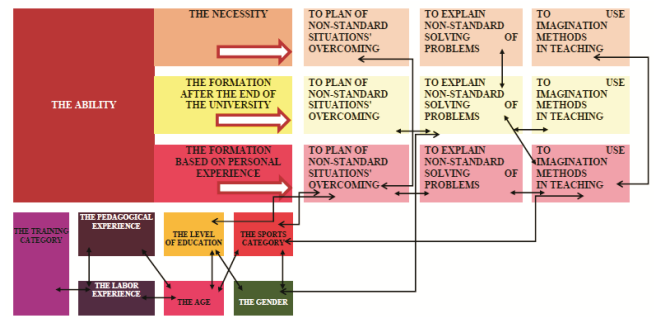


Fig. 4. Map of dependencies of special professional creative abilities of trainers from the main characteristics their social portrait (according to the analysis of contingency tables; $p \leq 0.05$; by Pearson's X^2 criterion / measure of connectedness d Somers)

VI. CONCLUSION

The bachelor's program is designed to form students' knowledge, abilities, skills and value orientations to solve standard (typical) professional problems and situations. Master, in turn, involves the next step – preparation for solving non-standard (real, situationally arising) professional problems. Thus, the identified by us, the appropriate necessity for the formation of future staff in the field of physical culture and sports, the competencies of a creative attitude to professional activity, allowing successfully and efficiently solve the non-standard situations that accompany it, should be realized precisely in the magistracy.

VII. THE DISCUSSION OF THE RESULTS

Proposals for improving federal state educational standards of higher education master's programs in the field of physical education and sports.

At first, in the direction of higher education preparation 49.04.03 Sports within the framework of the 3++ generation are proposed to include the following competencies, related to the content of the discipline “Highest-achievements’ sports as a sphere of creative activity” and to the formation of undergraduates’ creative abilities, among the recommended professional competencies / self-determined professional competencies [are included by the educational organization based on the orientation (profile) of the master's program]:

- within the framework of orientation (profile), oriented to solving the problems of professional activity according to the coaching type – PC. Able to solve non-standard problems in the field of training athletes and during the preparation of a sports’ team to perform at official sports’ competitions of national, regional and local level;
- within the framework of orientation (profile), oriented to solving the problems of professional activity by organizational and managerial type – PC. Able to solve non-standard problems during the management of the replenishment and preparation of the sports’ reserve, during the management of the preparation of the sports’ team of the Russian Federation for performances at international competitions.

Secondly, in the area of higher education preparation 49.04.01 Physical Education within the framework of the 3++ generation is proposed to include the following competencies related to the formation of undergraduates' creative abilities, among the recommended professional competencies / self-determined professional competencies [are included by the educational organization based on the orientation (profile) of the master's program]:

- within the framework of orientation (profile), oriented to solving the problems of professional activity by pedagogical type – PC. Able to solve non-standard problems in the field of pedagogical activity in vocational training, vocational education and additional professional education (correlates with the content of the discipline "Pedagogical creativity in the field of physical education");
- within the framework of orientation (profile), oriented to solving the problems of professional activity by organizational and managerial type – PK. Able to solve non-standard problems in the course of managing the activities and development of a fitness organization (correlates with the content of the discipline "Creativity of the leader of the organization in the field of physical education and sports").

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