

## Professional Competence Requirements: the Views of Several Physical and Sports Education Teachers

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### **Abstract:**

The purpose of this study was to identify the opinions of Physical and Sports Education (PSE) teachers regarding professional competence and the specific requirements of the work. A questionnaire was drawn up and sent to 85 PSE teachers in secondary schools based the Mostaganem “Wilaya” or Province in Algeria. The findings indicate that this group of teachers could not clearly define general or specific competence. However, they largely agreed that the teacher/coach plays a very important role in establishing the professional competence of trainees. Competence that is specific to PSE is described in studies as “how to apply competence by competence the approach to teaching PSE” and “knowing how to apply legislation”. None of the teachers responding cited a basic competence in the professional sphere, described in the literature: sound knowledge of legislation and administrative procedures. In addition, the findings show that the teachers are not satisfied with the training they received and that it does not enable them

to reinvest their training in their professional role. From the opinions expressed by the population studied, their training does not encourage professionalism. This finding is also confirmed by research by Laroua et al.

**Key Words: Competence, Professional Competence, PSE**

## **1-Introduction**

Competence is defined in terms of “knowing how to act and react” and is not reduced to applying or carrying out rules, but goes beyond that which is stipulated (Le Boterf, 2001). The competent person knows how to choose, organize, and mobilize certain resources (knowledge, expertise, qualities, culture, documentary networks, expertise networks, etc.) in order to manage situations in professional practice (Le Boterf, 2002).

Training for a Master in PSE at the Physical and Sports Education Institute of Mostaganem, Algeria, has been carried out since 2004 through a program set up by a committee specializing in teaching motor skills in physical education.

Several study courses are taught at the Institute: Sports Coaching “ES”, Human Movement and Motor Skills “MHM”, Adapted Physical Activity “APA”, and Sports and Health “SH”. In our study, interest focused on MHM training, which equates to training formerly known as “EPS” or PSE. This training gives students the possibility of entering the teaching profession and applying for a teaching post within the National Education system through a mark attributed following an interview and a review of their university file. The graduates are appointed as trainee teachers for a nominal three-year period. They

must undertake a nine-month training program in the difficulties that may be encountered in practice as a prerequisite to applying for a permanent post (CAPEPS). This training is an obligatory stage required by the State Administration.

In addition, the Mostaganem Province education management uses a form of nomenclature and classification of teachers relating to their number of years teaching experience and also to successfully passing an evaluation test before being allowed to move on from one status to another. Several teacher grades have been established: trainee, permanent teacher, principal teacher and coach. Coach is the highest grade and once attaining this level a teacher may apply for the position of inspector of the various subjects taught.

The new LMD system (Bachelor, Master, PhD.), was established at Mostaganem University over 10 years ago and training is available in Science and Techniques of Physical Activities for the teaching profession, replacing the earlier training program in Physical and Sports Education.

Few educational courses in Algeria are concerned with results of training and the quality and the competence of teachers. For this reason, several research studies have been carried out since 2011 to examine the issue.

Theoretical research into the question of competence was carried out by Laroua et al. (2013), with the aim of identifying competence in the teaching of PSE while at the same time attempting to design a curriculum for competence specific to the profession in Algeria. Various

recommendations resulting from this work extensively explored the professional competence required by a PSE teacher based on practical experience of the activity (situated action) in order to obtain more precise results more in line with actual practice. In order to obtain greater objectivity it was decided to interview those principally concerned in this area of education: experts, novices, and inspectors, in order to obtain a better understanding of practical competence and to draw up a grid of professional competence to meet the requirements for teaching PSE under standard conditions.

## **2-Materials and Methods**

The method used to examine the professional competence required for the teaching of PSE is both descriptive and quantitative. The research study used closed and open-ended questions.

### **2-1-Participants**

Eighty-five PSE teachers contributed to the research. This number was provided by the Mostaganem Province education authorities as being as all teachers working mixed-sex secondary schools in Mostaganem Province in 2014. The categories of teachers represented included those under training having little experience thought to the most experienced holding the title of teaching coach.

### **2-2-Procedure**

#### **2-2-1-The questionnaire**

PSE teachers completed a questionnaire concerning the notion of competence in PSE teaching. The questionnaire included tabular forms with open-ended and closed questions, as well as questions open-ended and closed at the same time. The questions were intended to provide

answers to the central question of identifying skills specific to practical teaching.

In order to test the objectivity and reliability of the research tool the first questionnaire established included several questions relating directly to the issue. The questionnaire was then assessed by specialists from the profession who adjusted and amended the questions taking the observations of experts into account. To test its reliability, seven PSE teachers chosen at random completed the questionnaire twice at a week's interval. The same results were obtained both times, leading to the conclusion that the research tool had an acceptable level of objectivity and reliability.

### **2-2-2-Statistical Analysis**

In the study attention focused on analyzing the replies of the PSE teachers in relation to teaching PSE in situ. Replies were coded in a computer data base and processed by *Sphinx v5* software. The *results* were analyzed using the comparison test of two percentages was used as well as the *K<sup>2</sup> test*.

## **3-Results and Discussion**

This part of the research study is devoted to analyzing and discussing the findings obtained from replies. It throws light on the main observations from the research and analyses them within the framework of National Education in Algeria.

**Table No.1: shows the grade distribution of PSE teachers**

	Teacher under training	Number Permanent teachers	Permanent Coach
N° of teachers	12	64	9
%	14.12	75.29	10.59

Table No.1 indicates a greater number of teachers with a university degree and from Physical and Sports Education teacher training institutes, with the overall total of 85 for Mostaganem Province in 2014. These teachers had obtained the level of experience which enabled them to move on to a higher status. Only 12 were under training, 14.12% of the group; 64 were PSE teachers in permanent posts, 75.29% of the group in this study. In addition, we identified nine PSE teaching/coaches, 10.59% of the group.

These findings show that the Mostaganem Province education administration uses a form of nomenclature and teacher classification based on their number of years' experience in education and also on the evaluation test necessary for advancing from one status to another (e.g. from the status of principal teacher to that of teaching/coach). The results also show that most of these PSE teachers hold a permanent post. The evaluation test for holding a permanent post consists of establishing the standards for permanent post teachers responsible for the subject matter and teachers under training. The permanent teacher coordinates the subject matter with other colleagues in the establishment, as well as the examinations and planning of the various tasks. Newly recruited

teachers under training, with a three-year contract, have to wait in order to take the CAPEPS examination within 9 months following their nomination, knowing that passing this test for a permanent post is essential after receiving their end-of-studies diploma organized by the education administration (training department).

This training is required by the State public service administration. Furthermore, during the study we observed that those teachers with the title of coach regularly work with subject matter inspectors, particularly in identifying and planning objectives for the training seminars organized regularly by the inspectors.

The status of coach can be obtained under certain conditions, which include the number of years spent teaching the subject as well as the result of the written test. The results also revealed that 72.41% of teachers have this type of professional experience in Mostaganem Province by comparison with experienced teachers having more than 10 years' experience in education. In the latter case they comprise 25.28%.

Results vary between regions throughout the country. Research by A. Laroua (2011) shows that certain Provinces, such as Oran and Témouchent (in the west of the country) have older teachers with more than 10 years' experience in teaching PSE. This difference in experience of pedagogical practice doubtless has an influence on the quality of teaching as well as on the level of competence attained by these "experts".

**Table N°2: showing competence definitions for a PSE teacher, according to the teachers themselves**

How do you define the competence of a PSE teacher?	R	%	K <sup>2</sup> (cal) 21.42	K <sup>2</sup> (tab) 18,31
Replies Considerable stamina and moral capacity.				
The ability to obtain objectives with a minimum of energy.	1	1.15		
Great psychomotor and social abilities in individual and team disciplines.	2	2.30		
All the concepts and knowledge required for preparing a teaching session.	5	5.75		
The ability to prepare a PSE session in good conditions.	12	13.79		
The ability to find appropriate solutions for problems faced by a teacher during sports practice.	20	22.99		
Mastering TIC (information and communication technology).	11	12.64		
The ability to deal with pupils and to transmit information.	15	17.24		
The ability to carry out exercises and games correctly.	12	13.79		
A sound theoretical and practical knowledge.	2	2.30		
Cognitive, physical, and administrative competence	4	4.60		

Table N° 2 shows the range of replies from teachers on the definition of competence in PSE. Twenty teachers, 22.99%, define specific PSE competence as the ability to find appropriate solutions for problem situations faced by the teacher in a practical teaching situation. However, fifteen teachers, or 17.25%, have a different view: they



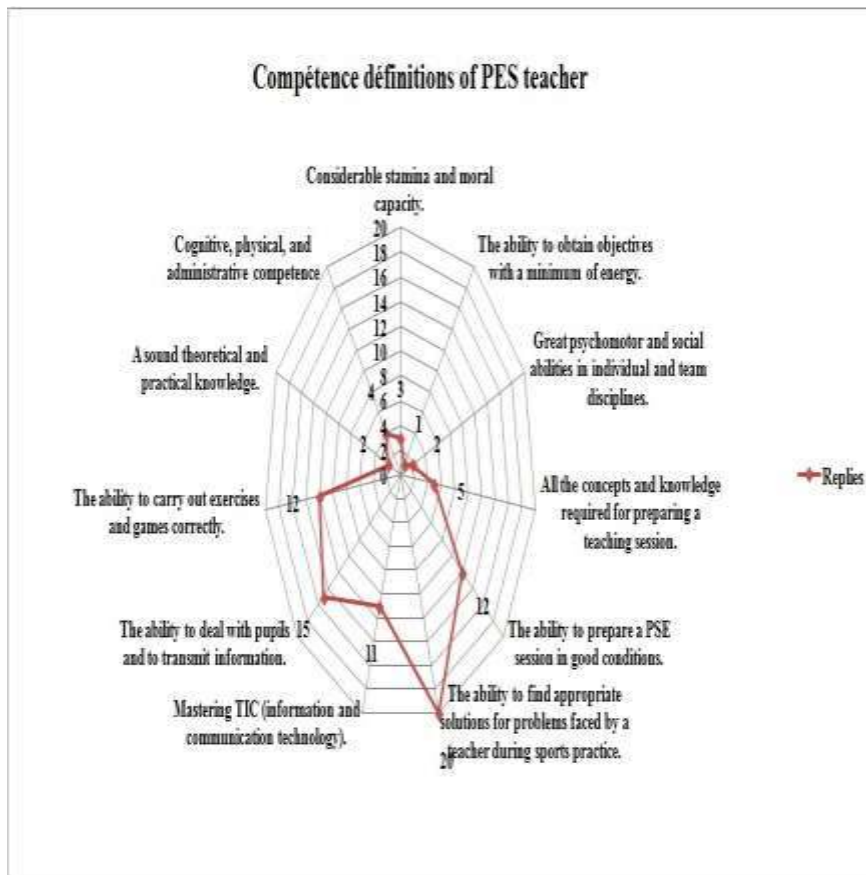
emphasize sound control over the class and the way of transmitting information as a major competence element.

In addition, by combining two replies (TICE and knowledge of the activities), twenty-three teachers, 26.43%, define the competence specific to PSE as the ability to carry out exercises correctly and sound knowledge of TICE (information and communication technology in teaching). The others gave quite varied and less significant responses. A large group defined competence in PSE as prior knowledge of the concepts which facilitate the preparation of a teaching session, as well as sound theoretical knowledge and specific practice regarding PSE. The  $K^2$  test shows that the calculated  $K^2$  value ( $K^2_{cal}=21.42$ ) is greater than the  $K^2$  value of the Table ( $K^2_{Tab}=18.31$ ) where the degree of freedom of scope ( $N-1$ ) is 10, and the level of significance is 0.05. This finding is a statistically significant increase, which explains the large difference in favor of the answer giving the greatest number of choices.

The findings show how various definitions of competence are formulated in PSE. Each teacher suggested their own version where they defined competence specific to PSE drawn from their own professional experience. However, compared to the propositions generally found in the literature on the subject, their definitions are incomplete and do not take into account the basic elements that define competence in PSE. In fact, most of the teachers said that competence in PSE is directly linked to the speed of assimilating environmental information in order to react to problem situations encountered during a PSE session. Good class control and the quality of message transmission during the session, underscoring the value of professional gestures such

as the use of guidance gestures during a session and including verbal and non-verbal communication. Authors such as N. Chomsky (1973) and G. Le Boterf (1999), D. Delignières, C. Garsault (1993), and M. de Montmollin (1984), as well as O. Reboul (1980), have put forward many definitions for competence. Beyond the specificity of each of these definitions, certain points of agreement emerge. Competence or skill is a stable quality, acquired by apprenticeship, resulting in a set or group of elements in dynamic interaction. Knowledge is programmed, which supposes a power of action and/or understanding that can be applied to a category of actions relating to a common problem. In secondary school, skills “constitute knowledge allowing for a reaction appropriate to a situation, or a group of situations presented by the teacher”: they are cultural and methodological. In every case, competence defines, in accordance with the regulations, the nature of the acquired knowledge: “apprenticeship in PSE leads to the acquisition of competence” (**grade six programmer, 1996**). Based on these definitions, it may be supposed that competence is the possibility of acting voluntarily and effectively in a range of situations. The aim of the PSE teacher is that the student acquires competence specific to PSE; the teacher observes the motor behavior of the student and assists them in mobilizing their motor, cognitive, emotional, and social resources.

Figure N° 1: describing the definitions of the competence necessary for a PSE teacher according to the teachers themselves.



**Table N°3: represents the specialized competence for a PSE teacher**

Specialised competence required for a PSE teacher, according to the teachers themselves.	R	%	K <sup>2</sup> (cal)	K <sup>2</sup> (tab)
competences				
Simple, short explanation of exercises.	8	9.20		
Good positioning and use of the area allocated to pupils. Mastering TIC in education.	8	9.20		
Mastering the science associated to each discipline taught. A good relationship with colleagues and the administration. Ability to apply legislation.	6	6.90		
Ability to apply the approach by competence in PSE teaching. Good use of teaching material.	8	9.20		
The ability to teach efficiently.	1	11.49		
Sports activity continues in the establishment. Working methodically.	0	10.34		
Being exemplary at work.	9	8.05		
Sound mastery of teaching methods and styles. Experience in PSE teaching.	7	1.15		
Personally undertaking the physical activity.	1	1.15		
Having a correct view of the physical activity during practice. Being innovative at work.	1	3.45		
	3	1.15		
	1	9.20		
	8	2.30		
	2	1.15		
	1	1.15		
	1	5.75		
	5			

The findings in table N°3 show how teachers perceive the specific competence that a PSE teacher should have. In fact, nineteen PSE teachers, 21.83%, gave two answers which represent for them the key specialized competence in PSE. This is the sound application of legislative texts supplied by the Algerian Minister of National Education.

In fact, teachers must abide by them, firstly since they are a guide to preparing classes, and secondly they provide the definition, objectives and purpose of PSE. The legislation clearly details the competence that should be acquired by the pupil at each of the three levels taught at secondary school. Competence is evaluated at the end of each trimester (basic competence), each year (final competence), and at the end of the three years of study (definitive and final competence).

In these same legislative texts there are the apprenticeship objectives for each discipline taught (collective and individual) relative to each level of teaching, including the various evaluation stages. Class preparation is clearly explained, giving models of technical sheets. In principle, the PSE teacher may not change the competence and objectives as defined in the Ministry's official textbooks.

The second competence raised by the teachers was the ability to efficiently apply the approach by competence in PSE teaching. An earlier study (**Bensikaddour & al, 2013**) shows that this was far from being the case for the group studied. Teachers under training have enormous difficulties in designing problem situations and in assisting pupils to find sound solutions (*ibid.*).

Furthermore, in this study show two replies have the same score. Eight

PSE teachers, 9.20% of the group, gave an answer considered pertinent in the literature on the subject. This is the competence relative to mastering PSE methods and styles. The work of Bensikaddour (1995), Ataallah (2004), and Laroua (2009) match the findings of D. Banville (2004). They show that a great majority of teachers in Mostaganem Province, as in Western Algeria and Canada do not master all the various teaching methods available to them for a PSE session. Described among others by Muska & Ashworth (1994), translated by Cothranet (1999), are eleven teaching methods; Practice, Command, Guided Discovery, Reciprocity, Divergent Production, Inclusion, Self-verification, Convergent Discovery, Individual Program, Self-teaching, and Pupil Initiative.

In the group taking part, a second group of sixteen PSE teachers, 18.40%, raised two types of competence specific to PSE: competence and professional gesture relative to teaching. They involve a simple short explanation of the exercises, and good positioning with good use of the area allocated to pupils.

The study by Laroua et al (2013) – whose purpose was to identify competence by using a grid for analyzing professional gestures – has three major aspects: verbal gestures, non-verbal gestures, and positioning in the field. Findings show that the competence described by teachers was used during sessions in verbal teaching practices while adding other gestures such as voice modulation.

Eight teachers, 9.20%, mentioned mastering TICE in teaching PSE. This innovative finding, insofar as it was not cited in previous years, is today a teaching requirement. On the contrary, as TIC gradually

invades all disciplines, a major change to references in professional competence is occurring with ever-increasing significance. Numerous research papers emphasize the complexity of analyzing the teaching changes resulting from the integration of TIC (Levin, Ammon, 1996; Mangenot, 2000). In the framework of teacher training the complexity of such an analysis is amplified by the fact that it covers both training programmers in junior and secondary schools, where teachers under training are appointed.

In fact, in spite of integrating TIC in teaching programmers, teachers have difficulties adjusting. A recent study carried out in Mostaganem Province shows that 65.21% of teachers, particularly teachers under training, do not understand TIC in education (Laroua & al, 2013).

Furthermore, eight teachers, 9.20%, mention as competence a good relationship with colleagues and the administration. No reference is made of this competence in the literature. After having used the  $K^2$  test, the value of  $K^2$  calculated ( $K^2_{cal}=27.04$ ) is greater than the value of  $K^2$  in the tables ( $K^2_{Tab}=26.30$ ) where the degree of scope ( $N-1$ ) is 16, and the degree of significance is 0.05.

This result indicates a significant statistical value in favor of the most often mentioned answer.

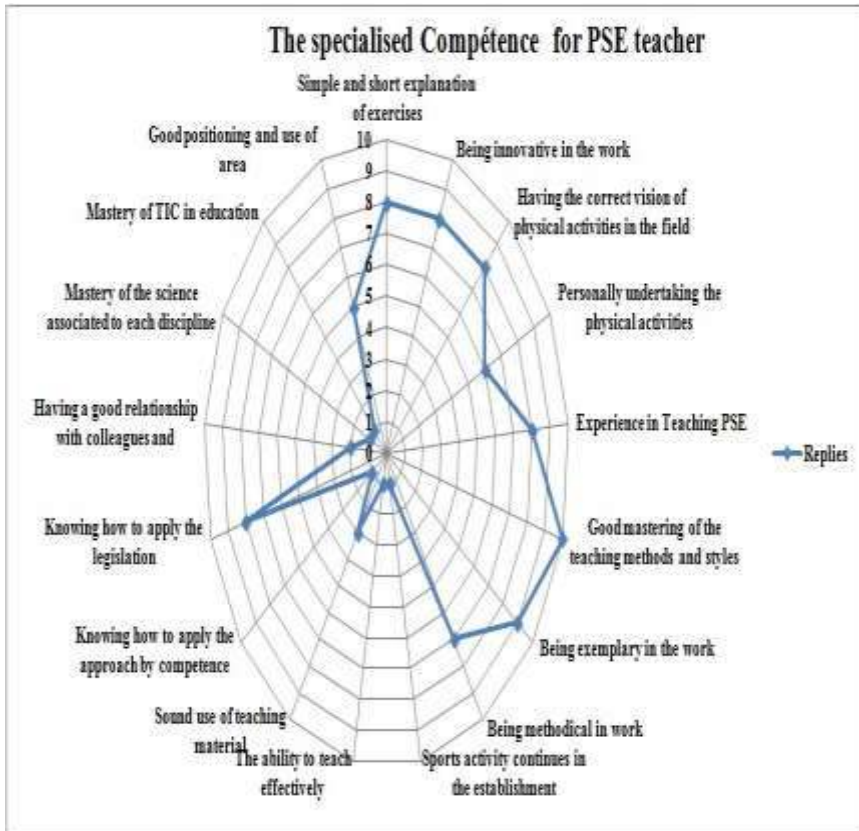
Analysis of the findings shows that sound knowledge of legislation and legislative and administrative procedures is not mentioned. However, this competence theoretically enables the teacher to know their rights as well as their professional duties and responsibilities while referring to public function law N° 06-03 of 2006 and employment law. This is not surprising inasmuch as, during training in PSE, students on the Master

degree course in Human Movement and Motor Skills say the curriculum made insufficient provision for learning about legislation (Benchehida, 2014).

Analysis of the curriculum established for the Master degree in MHM confirms this finding. Without a doubt, this has a negative effect on teachers under training, in particular during their first months after being recruited. An assessment made by the trade union Cnapeste in Mostaganem Province in 2012 confirmed that nearly 80% of new teachers recruited in the education sector do not fully understand legislative aspects and are unable to intervene on an administrative question and exercise their rights. This is particularly so when seeking a solution to a particular problem or unexpected circumstance in the establishment. The education administration in Mostaganem often organizes training sessions for newly recruited teachers on such subjects as psychology and educational methods as well as on legislation, but not to any depth. In fact, the most positive type of learning situation occurs when the teacher has a problem. Then the teacher must call on knowledge of legislation they acquired in training (Cnapeste, 2014).



Figure N°2: showing the specialised competence that a PSE teacher should have, according to the teachers themse



#### 4–Conclusion

The findings of this study indicate that the notion of competence is still far from clearly defined. They show that 65% of the teachers taking part cannot provide an accurate definition of competence, whether general or specific in relation to the literature on the subject.

Concerning the competence that a PSE teacher should have, several ideas have been formulated, such as “knowing how to apply the approach by competence in teaching PSE”, and “knowing how to

apply the official legislation”.

On the contrary, none of the teachers taking part cited a basic competence considered fundamental to the profession in general and included in the literature on the subject: “sound understanding of legislation and administrative procedures”. This has led teachers under training to encounter major difficulties in their establishments as has been identified in other research (Laroua et al. 2013). This issue was also explicitly stated by the PSE inspector during an open-ended interview for research purposes. Another finding concerns the training at the Mostaganem PSE Institute. In terms of the programmes and the formal curriculum training does not take into account the imperatives encountered in the field by the professional PSE teacher as stated by the teachers themselves. Finally, from the findings of this study, discord is apparent regarding competence defined by different status PSE teachers and the training programmes of the Mostaganem Province PSE Institute (programmes studied in the form of a subject analysis of contents). The results of this study, listing 23 notions of professional competence necessary for PSE teaching do not comply with the formal training curriculum of the Mostaganem PSE Institute.

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