
Research Article

The Contribution of Professional Competence through the Work Discipline and Performance to Teacher Work Productivity in Public Elementary School of Tabunganen Subdistrict, Barito Kuala

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ABSTRACT

The greater challenges in the future require teachers to increase work productivity. The purpose of this research is to describe and analyze how much the direct and indirect contribution of professional competence through the work discipline and teacher performance to work productivity. This research was conducted with a quantitative approach using the path analysis method. The population in this research was totaling 102 teachers of Public Elementary Schools in Tabunganen Sub-District with a work period over 5 years. Samples were taken as many as 81 people. Sampling used by a simple proportionate sampling technique data collection uses instruments was a questionnaire. The results of this research showed that there are direct contributions of 1) professional competence, work discipline, performance to work productivity; and indirect contributions of 2) professional competence through the work discipline to work productivity; 3) professional competence through performance to work productivity. Suggestions for teachers to upgrade professional competence, to improve discipline in time, and to produce useful scientific work to improve the teacher work productivity.

Keywords: professional competence 1, work discipline 2, performance 3, work productivity 4

Introduction

The educational system should be prepared a good quality of human resources that can be competitive. If the Indonesian human resource has a good qualification of education and competence, so they will be people who have productivity (Suriansyah, 2015). To be able to have high performance across individual, group, organization, and system levels, the performance management systems could be reoriented (Blackman, West, O'Flynn, Buick, & O'Donnell, 2015). Also, in an era of globalization and challenging circumstances, performance management is becoming a popular term and a new organizational ideology across the world (Kim, 2016). Hence, education must be a highlight to answer the global challenge because innovation can be developed through

education to get this aim. Furthermore, the development of education will also influence the development of civilization (Hamda & Dalle, 2011). The change of paradigm the implementation of the National Education System from centralistic to decentralization is an effort to increase the quality of education (Rizalie, 2017). Quality of education depends on the participation of the teachers. The teachers should have a good level of productivity and have a high ability to cope with the changes faced. For instance, there should be training programs for teachers as well as the administrators and investments to enhance the quality of the educational inputs (Gonzalez, Karoly, Constant, Salem, & Goldman, 2008). The environment is also a pervasive factor in influencing all organizational perspectives as it is the

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source of external pressures (Emmerichs, Marcum, & Robbert, 2004).

The research that was conducted by (Engelbrecht, 2016) suggests that it is difficult to measure the work productivity of the teacher because of the contextual factor and external factor. But, he has suggested that it can be measured with four approaches that are: teacher subject competency tests, the role of the principal, the role of the department of education, value-added model. Besides, in some prominence cases of government performance measurement and management, the vital component was an explicit definition of performance that normally available in the authorizing statute (Klerman, 2005).

The effort to know how much the productivity of teachers to work together and how much effectiveness to get the purpose needs an assessment of performance. It can help a teacher to be responsible for her job. Teacher's performance is a very important factor that influences the management learning process at the school (Normianti, Aslamiah, & Suhaimi, 2019). Performance is very related to productivity because it can be an indicator to determine a level of productivity in an organization (Wahyudi, 2012; Kelimeda, Hairudinor, Ridwan, & Dalle, 2018). Consequently, the highest priority for educational policymakers and practitioners is to staff all classrooms with effective teachers to educate students to be productive citizens of a knowledge-based society (Synar & Maiden, 2012).

Professional competence is reflected by capability and skill. Since the teacher has a professional authority that has always been perceived as an educated person that s/he is expected to have to know more in the way of subject matter than just what they are charged with teaching (Kirby, McCombs, Barney, & Naftel, 2006). It cannot be separated from the guidance and support of the headmaster to motivate the performance growth of the teacher. Because, one of the competence that a leader should have is the capability to motivate the team (Aslamiah, 2012). Reformers have theorized that decentralizing education to the

lowest level possible would create greater efficiency and productivity by eliminating unnecessary bureaucracy and allowing leaders closest to students to make decisions about how resources would be used (Carpenter & Noller, 2010). Headmaster also has a chance to forge a strong partnership between adults that are the teachers, parents, and community members to develop a unified adult voice in support of kids (Weintraub, 2012). For example, in a music school, both music teachers and principals shared ideas to improve music teacher evaluation, including the need for evaluators with music-content expertise (Berberick, Clementson, Hawkinson, & Rolandson, 2016). Characteristics of teacher work productivity showed from the technical skill and professional competence of the teacher (Susanto, 2016). As it has been researched by Mizell in 2002, many middle school advocates believe that improving education for middle school students hinges on improving the competence of teachers (Juvonen, Le, Augustine, & Constant, 2004). So, work productivity is influenced by teacher professional competence. The result shows that it is a positive and significant relationship between professional competence and work productivity. It is in line with the fact that professional skills enhancement in training adults becomes a crucial thing in the organization's development (Butter & Hermanns, 2011), as well as in school. Hence, competence is an important factor to increase teacher work productivity (Hamdani, 2017).

Teachers that have good control of professional competence should have a work discipline that can be moving the competence to keep on growing. A person's vocational or professional competence is defined by the sum of his or her observed work behaviors in an authentic situation (Van Weeren, 2004). It requires discipline to display professionalism. Without discipline, a professional will be difficult to do the maximum result of the task (Suriansyah, 2015). In other words, it may be work situations and experiences through which learning takes place (Cohen-Scali, 2012). Transformation in the organization and content of work in turn affect the key qualifications

expected at both a technical and behavioral level. Thus, to build teachers' work discipline school should create a situation and an environment that support that behavior. That kind of situation and environment that builds discipline can be created by the support of sufficient school facilities (Zachos, Delaveridou, & Gkontzou, 2016).

Also, Hariandja (2005) has said that work discipline is an important factor in increasing productivity. Discipline is important as the era will never stay the same but the productivity needs to stay in place. It is since one-day different students will come and they will need new skills and competencies from the teachers (Ng, Schweitzer, & Lyons, 2010). This is made clear by the results which concluded that there was a contribution of work discipline to teacher's work productivity in Public Elementary School in the Karang Intan Subdistrict.

In addition to effect, work productivity is teacher performance. Regarding the performance of Armstrong and Baron (Suriansyah, 2014) explained that performance is "implementation of work and results of implementation carried out by someone about what is done and how to do it". For example, in the new era of technology, performance has been linked to how teachers can understand and apply technology in educational contexts (Sabzian, Gilakjani, & Sodouri, 2013). Hence, improving student performance can be done by improving the teacher's performance because when the teachers always do their best, students will experience a better learning process (Tóth-Pjeczka, Rapos, & Szivák, 2019). In other words, teachers' performance will automatically enhance students' achievement (Costaa, Cardosob, Limac, Ferreirad, & Abrantes, 2015).

Gomes (2005) has defined that performance is the result of the work with efficiency and effectiveness which relates to productivity. People who have a good level of performance can be seen as productive people. This because the performance has a relation to the level of productivity. Productivity itself, according to Dunleavy (Dunleavy, 2015) has been an important concept in the private sector. So, it can be important as well in the public sector including school. Productivity can be defined as

well as efficiency in a production that it is the amount of output obtained from a given set of inputs (Newman, Page, Rand, Shimeles, & Söderbom, 2016). For educational institutions such as public schools, efficiency is defined as the relationship between educational inputs and educational outcomes, specifically, the maximization of the former for an increased amount of the latter (Houck, Rolle, & He, 2010).

The low productivity in Public Elementary School teachers in Tabunganen Subdistrict is assumed because the professional teacher, work discipline, and performance have not yet at a high level for growth. The average of UKG value in 2015 is under 55 and still need continuous development. It showed that there were less research and scientific work, some of the teachers have a low interest to continue a level up of education. It is in contrast with the growing work productivity that is expected. Meanwhile, without upgrading skills, the performance will never be firmed and productivity will never have a chance to catch-up (Darko, Occhiali, & Vanino, 2018).

However, urgently teachers need to be able to improve work productivity through efforts to improve performance, increase the work discipline, and professional competence to achieve the best quality of education.

Material and Methods

This research uses a quantitative approach. The quantitative approach depends on material data (Bode, 2012). This approach method usually using a sample taken from the population as data. The population of the research was 102 people at the Public Elementary School in Tabunganen Sub-district. The sample was taken from 81 teachers in 19 schools selected by simple proportionate sampling. Data was collected using a four-scale model questionnaire that was tested for validity and reliability. There are two questionnaires used in this study namely the work discipline questionnaire and work productivity questionnaire. Then, professional competence data was collected from UKG value and teacher performance data was collected from PKG. Furthermore, hypothesis testing was using path analysis with the assist SPSS 22 program.

Results and Discussion

The results of the respondent's descriptive statistical analysis of the research variables, namely professional competence, work discipline, performance, and work productivity are shown in Table 1 which includes the mean, standard deviation, and categories. Based on Table 1 it is known that the work discipline is very high and the work productivity had a medium category. This proves that the teacher's work productivity of public elementary schools in the Tabunganan Subdistrict still needs to be improved.

The results of the classical assumptions test include residual normality data tests using the Kolmogorov-Smirnov one-sample method showing all the variables are normally distributed. The significant value shown in the output is 0,100. It states that variable data is normally distributed because it has a value greater than a significant rate of 0.05.

Homogeneity test results indicate that all variables used are from the same population or homogeneous variance. The results of the multicollinearity test showed the tolerance value of each variable was more than 0.1 and the VIF value was more than 10. Besides, heteroskedasticity test results on all variables showed a significance value of more than 0.05.

The results of path analysis as shown in Table 2, Table 3, and Table 4 are used to answer ten research hypotheses that have been formulated and the decision of the analysis results can be seen in Table 5 and Table 6. Table 5 is a summary of the decision of hypothesis 1 to hypothesis 6 with a critical value of less than 0.05, then the hypothesis is accepted. Table 6 is a summary of the decision of testing hypothesis 7 to hypothesis 10 which is an indirect contribution.

From Figure 1, it can be seen that there is a direct contribution of professional competence to work productivity by 0,182. Teachers' work productivity was seen from teachers' work quality, dedication to their job, their effort to professionalism, their PTK, and training and workshop. The higher of professional competence, the higher of work productivity. The results of this study state that there is a contribution of professional competence to

work productivity of Senior high school in the Kandangan Subdistrict. Besides that, there is a direct contribution of professional competence to teacher performance in Public Elementary School in Tabunganan Subdistrict by 0,269.

This study is in line with Kadarisman (2011) which states that there is a direct relationship between the professionalism and the performance of someone. Professional teachers certainly have professional, pedagogical, social, and personal competencies that must be possessed by a teacher. So that the higher the level of professionalism of a teacher, the better the performance (Novozhenina & Pinzon.M.M, 2018). Thus, teacher education programs must implement more innovative and robust programs focused on learning outcomes as constant with time as a variable (Bull, Patterson, Dunston, Wilbur, & Simpson, 2017). Teachers' professionalism can get higher by improving their competence in using current technology for teaching (Fenwick & Edwards, 2016). Furthermore, professional competence also has an influence in increasing teachers' work discipline. There is a contribution of professional competence to work discipline by 0,246. According to Suprihatiningrum (2016) states that professional teacher has a discipline skill effectively. These states are in line with Ndugu (2014) suggesting that the higher the teacher quality, the higher the productivity. Teacher quality aspects such as qualification are a relationship with the professional competence of the teacher. Thus, schools should create a good relationship between the teachers and students at school, where the teachers and the students can collaborate in the teaching and learning process. By doing activities that bound the students and their teachers in a good relationship will build the effect of interdependent, and they mutually will influence the quality of the instruction process (Krajewska, 2019).

There is a direct contribution of work discipline to work productivity by 0,588. Discipline has a relationship with the learning effectiveness of the teacher to get better quality. This improvement influence on teacher work productivity at the school. A teacher who has a high level of discipline also can work with

effectiveness, have a positive habit, and want to contribute to increasing the quality of education Yusuf, Olufunke, & Valentine (2015).

Thus, maintenance of discipline also affects a teacher's productivity. The results of this study are in line with Hariandja (2005) which states that work discipline is an important factor in increasing productivity. Teachers, as identity, are always being produced, in a state of becoming, changing, and shifting in response to different social contexts and dynamics (Santoro, Reid, Crawford, & Simpson, 2012). Hence, discipline is needed. Another factor that contributes to an increase in work productivity is performance. There is a direct contribution of performance to work productivity by 0,172. There is a contribution of performance to work productivity. If the teacher has a good

understanding of the field of study or material to be taught, the teacher's performance will be good (Ahmed, 2012). To be able to identify their professional identity will enhance their professionalism so that they can fulfill every demand of the school and the students (Yamin-Ali, 2019). Likewise, Susanto (2016) states that the implementation of work productivity is a good treatment through performance. Policies are needed to revise the professional profile of teachers at all levels in the relation to work productivity including improving the performance of the students (Lauwers, 2019). So, professional competence, work discipline, and performance are contributed to increasing teacher's work productivity in Tabunganan Subdistrict.

Table 1. Mean, standard deviation, and categories of research variables

Variable	Descriptive		
	Mean	Standard Deviation	Category
Professional Competence	63.38	11.21	Good
Work Discipline	95.43	6.383	Very good
Teacher Performance	85.51	4.101	Good
Work Productivity	91.51	8.420	Medium

Table 2. Results of path analysis in structure model 1

Structural 1 Professional Competence for Work Discipline						
Variable	Path coeffi-cient	t	Sig	R2	F	Sig
Professional Competence	0.246	2.255	0.027	0.060	5.085	0.027

Table 3. Results of path analysis in structure model 2

Structural 2 Professional Competence, Work Discipline on Teacher Performance						
Variable	Path coeffi-cient	t	Sig	R2	F	Sig
Professional Competence	0.269	2.481	0.015	0.072	6.153	0.015
Work Discipline	-0.006	-0.053	0.958	0.072	3.039	0.054

Table 4. Results of path analysis in structure model 3

Structural 3 Professional Competence, Work Discipline, Teacher Performance on Work Productivity						
Variable	Path coeffi-cient	t	Sig	R2	F	Sig
Professional Competence	0.182	2.08	0.04	0.49	24.64	0.000
Work Discipline	0.588	7.00	0.00			

Teacher Performance	0.172	2.034	0.045
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Table 5. Summary of decisions on hypothesis testing H1, H2, H3, H4, H5, H6

Hypotheses	<i>p</i>	Decision
There is a direct contribution of professional competence on work discipline	0.246	Accepted
There is a direct contribution of professional competence on teacher performance	0.269	Accepted
There is a direct contribution to professional competence on work productivity	0.182	Accepted
There is a direct contribution of work discipline to teacher performance	-0.006	Rejected
There is a direct contribution of work discipline to work productivity	0.588	Accepted
There is a direct contribution of teacher performance to work productivity	0.172	Accepted

Table 6. Summary of decisions on hypothesis testing H7, H8, H9, H10

Hypotheses	<i>p</i>	Decision
There is an indirect contribution of professional competence through work discipline to performance	-0.0014	Rejected
There is an indirect contribution of work discipline through performance to work productivity	-0.0010	Rejected
There is an indirect contribution of professional competence through work discipline on work productivity	$0.246 \times 0.588 = 0.144$	Accepted
There is an indirect contribution of professional competence through intermediary teacher performance on work productivity	$0.269 \times 0.172 = 0.046$	Accepted

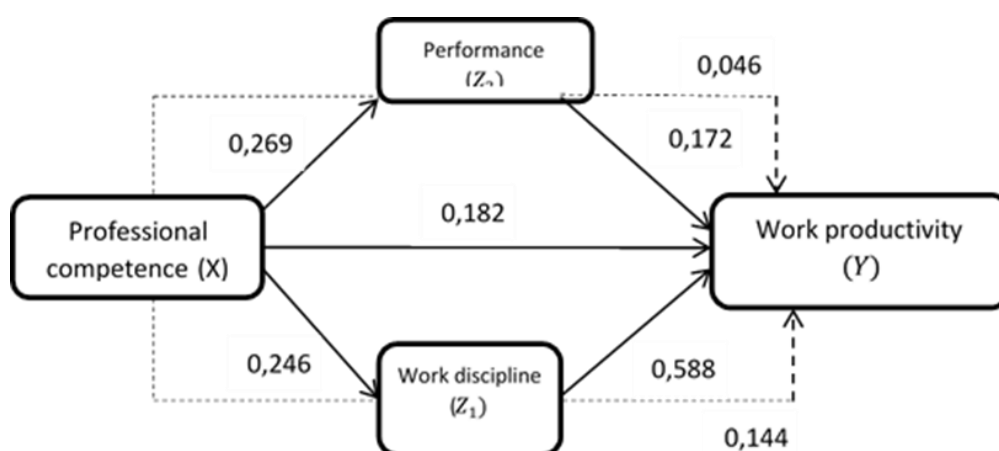


Figure 1. Final contribution between research variables

Conclusion and Recommendation

Based on the result of data analysis and discussion as described above, it can be concluded as follow:

1. Professional competence and teacher performance in Public Elementary School in Tabunganen Subdistrict are in good classification, while the work discipline is in very high classification, and work productivity is in medium classification.
2. There is a direct contribution of professional competence to work productivity and work discipline to work productivity and teacher performance to work productivity.
3. There is an indirect contribution of professional competence through the work discipline to work productivity and the performance to work productivity.

Based on the results of the research that has been done, the researcher gives the following suggestions:

1. For teachers of the Public Elementary Schools in Tabunganen SubDistrict, to upgrade the professional competence, to improve discipline in time, and to produce useful scientific work to improve the teacher work productivity.
2. For principals in the Public Elementary Schools in Tabunganen SubDistrict, it is recommended to increasing evaluating and supervision programs to improve learning quality in the school.
3. For further researchers, it is suggested to be able to examine other factors that can also affect a larger population, so that other factors contributed to teacher work productivity can be identified.

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