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The Effect of Certification, Competence, and Motivation on Teachers Performance of Country Civil Apparatus in Sawahlunto City

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ABSTRACT

The purpose of this study was to determine the effect of certification and competence on motivation and its impact on the performance of State High School teachers with B Accreditation in Sawahlunto City. This research is motivated by the lack of maximum performance of teachers who have received certification, so this will affect the quality of education in the city of Sawahlunto. The research method uses a quantitative approach with path analysis methods. Respondents of this study were 94 ASN Teachers in State High Schools in Sawahlunto City. The sampling method is total sampling. Hypothesis testing is calculated by IBM Statistical Package for Social Science (SPSS) program version 21.0. The results of this study found that certification has a significant effect on motivation, competence has no significant effect on motivation, certification does not have a significant effect on performance, competence has a significant effect on performance, motivation has a significant effect on performance directly certification through motivation has a significant influence on performance directly competence through motivation has a significant influence on the performance of State High School Teachers in the City of Sawahlunto.

Keywords: certification, competence, motivation, performance, teacher, apparatus, civil state

INTORUDUCTION

The teacher as one component in teaching and learning activities has a position that greatly determines the success of learning. The main function of the teacher is to design, manage, implement, and evaluate learning. Teachers play a major role in the development of education, especially those formally held in the school environment. Teachers also determine the success of students, especially in relation to the teaching and learning process (Mulyasa, 2007, p. 5). In addition, things that need to be considered to achieve high teacher performance require the existence of factors that influence teacher performance so that the government organizes teacher certification programs as an effort to improve the quality and dignity of teachers and teacher professionalism to improve their performance in full. According to Mulyasa (2007), certification can be interpreted as a process of giving recognition that someone has the competence to carry out educational services in a particular education, after passing the competency test held by the certification body.

In this study found a number of phenomena regarding certification allowances, including teachers who have not all carried out their duties as professional teachers, teachers feel very troubled in achieving 24-hour fulfillment. This fact shows that during the current certification process, it turns out that it has not shown any real changes towards the better, so that further improvement of the certification system needs to be carried out in order to show more tangible results. As expected, the main objective of the certification program is to increase knowledge, performance, creativity, and be able to carry out other functions related to the leaning and teaching process.

The purpose of this study is to find out and test:

- 1. Effect of certification on the motivation of State High School Teachers in Sawahlunto City
- 2. Effect of competency on the motivation of State High School Teachers in Sawahlunto City
- 3. The effect of motivation on the performance of State High School Teachers in Sawahlunto City
- 4. The effect of certification on the performance of State High School Teachers in Sawahlunto City
- 5. Pengaruh komptensi terhadap kinerja Guru SMA Negeri di Kota Sawahlunto.Effect of competency on the performance of State High School Teachers in Sawahlunto City
- 6. The influence of motivation as an intervening variable between certification and performance of teachers of State High School in Sawahlunto City
- 7. The influence of motivation as an intervening variable between the competency and performance of teachers of State High Schools in the Sawahlunto City

Teacher Performance

LITERATURE REVIEW

Teacher performance is a result of work that is achieved by a teacher in carrying out tasks assigned to him based on skills, experience, and sincerity and time (Hasibuan, 2003, p.94). Teacher performance is the teacher's ability to increase the effectiveness of his teaching, overcome practical problems in the learning process. Teacher performance is shown in the activities of planning, implementing and evaluating the learning process (Jalal, 2001, p.293). In addition, the things that need to be considered in order to achieve high teacher performance require the existence of factors that influence teacher performance so that the government organizes teacher certification programs as an effort to improve the quality and dignity of teachers and the professionalism of teachers to improve their performance as a whole. According to research conducted by Jayanti (2018), the results of her research provide empirical evidence that the variables of certification, motivation, competence both simultaneously and partially have a positive and significant effect on teacher performance. And these results are similar to those stated by Wahyudi and Hadi (2017) from his research found that the results of certification have a significant effect on Teacher performance, motivation has a significant effect on Teacher performance, competence has a significant effect on Teacher performance, and simultaneously there are positive and significant variables certification, motivation, and competence towards the performance of State Primary School Teachers in Pakisaji District, Malang Regency.

The Georgia Department of Education has developed a teacher performance assessment instrument which was later modified by the Ministry of National Education to become a Teacher Capability Assessment Tool. The Teacher Capability Assessment Tool includes: (1) Learning plans with indicators: (a) syllabus identity, (b) competency standards , (c) basic competencies, (d) learning material, (e) learning activities, (f) indicators, (g) time allocation, and (h) learning resources; (2) Learning procedure with indicators: (a) classroom management, (b) use of media and learning resources, and (c) use of learning methods; (3) Interpersonal relations with indicators: (a) ability to make evaluations, (b) approach evaluation, (c) methods of evaluation, (d) preparation of evaluation tools, (e) processing evaluation, and (f) use of evaluation results.

Certification

The term certification is "as a sign / statement (written statement / located from the authorized person / institution given to the type of profession to carry out the task" (Diknas, 2005, p.159). According to Mulyasa (2007), certification can be interpreted as the process of giving recognition that someone has the competence to carry out education services in a particular education, after passing the competency test held by the certification body, so certification here means giving certificates to teachers who have been declared to have passed the competency test held by the certification body. It is expected that the teacher will become a professional educator, namely minimum bachelor degree and competency as an agent of learning as evidenced by the ownership of educator certification after being declared to pass the competency test. use the ability to be able to manage the potential of students as agents of learning. The purpose of this certification is to protect the teaching profession and staff, teacher certification, the program is a motivation to improve teacher performance. Like the results of research by Zulkifli, et al. (2014), the research findings suggest that work motivation and certification play an important role in efforts to enhance teacher welfare and performance. Teacher performance can be predicted through teacher welfare. The same thing was conveyed by Fatiah, et al. (2013), based on his research, it was found that there was a positive effect of teacher certification on teacher performance and there was a positive influence on teacher certification and teacher work motivation on the teacher performance of State High School 5 Surakarta. And the statement was also supported by Murwati (2013) research, based on the results of her research that there was an influence of teacher professional certification on work motivation and there was an effect of teacher professional certification on teacher performance.

The dimensions and indicators of teacher certification (Mulyasa, 2003, p.33), are: (1) Competence of Study Skills, with indicators: (a) Understanding of educational insights, and (b) mastery of academic study material; (2) Understanding the characteristics of learners, with indicators: (a) understanding the characteristics of students; (3) Educating Learning, with indicators: (a) carrying out educational learning; (4) Professional Development, with indicators: (a) preparation of RPP, (b) assessment of student achievement, and (c) implementation of follow-up research results; (5) Educator Personality, with indicators: (a) personality of faithful educators, (b) devoted, (c) insightful Pancasila, (d) independent full of responsibility, (e) authoritative, (f) discipline, (g) dedicated , (h) socializing with the community, and (i) the love of students and caring about their education.

Competence

Kunandar (2008, p. 52) say that competence is the ability to carry out something obtained through education and training that is cognitive, affective, and performance. Competence according to Mulyasa (2003, p.7) is a combination of knowledge, skills, values and attitudes reflected in the habit of thinking and acting. And Kunandar (2008, p. 55) also argues, teacher competence is a set of mastery of abilities that must exist within the teacher in order to realize its performance appropriately and effectively. Teacher competencies include: intellectual competence, physical competence, personal competence, social competence, and spiritual competence. According to research conducted by Wahyudi and Hadi (2017) that competence

has a significant effect on teacher performance and simultaneously there is a positive and significant influence on the variables of certification, motivation, and competence on the performance of State Primary School Teachers in Pakisaji District, Malang Regency. The results of these studies are also supported by research conducted by Jayanti (2018), whose research provides empirical evidence that the variables of certification, motivation, competence both simultaneously and partially have a positive and significant effect on teacher performance.

As according to Kunandar (2008, p.75), the dimensions and indicators of teacher competency, namely: (1) Pedagogic Competence, with indicators: (a) understanding students in depth, (b) designing learning, including understanding the educational foundation for the interests learning, (c) implementing learning, (d) designing and implementing learning evaluations, and (d) developing students to actualize their various potentials; (2) Personality Competence, with indicators: (a) stable and stable personality, (b) adult personality, (c) wise personality, (d) authoritative personality, and (e) noble character and can be an example; (3) Social Competencies, with indicators: (a) able to communicate and interact effectively with students, (b) be able to communicate and interact effectively with fellow educators and education personnel, and (c) be able to communicate and interact effectively with people ; and (4) Professional Competencies, with indicators: (a) mastering scientific structures and methods.

Motivation

According to Uno (2008, p.1) defines motivation as a strength, both from within and from outside which encourages a person to achieve certain goals that have been previously set. Meanwhile, Hasibuan (2003, p.95) states that "Motivation is the giving of driving force that creates the excitement of one's work, so that they will cooperate, work effectively and be integrated with all their efforts to achieve satisfaction." So motivation is what drives someone do something to achieve the goal. According to Fatiah, et al. (2013) there is a positive influence on teacher work motivation on teacher performance and there is a positive influence on teacher certification and teacher work motivation on the teacher performance of state high school Surakarta. This is also supported by the results of research conducted by Kanto (2015) who found that there was an effect of work motivation and job satisfaction on the performance of the counselor on certain performance ratings. The same thing was also conveyed by Murwati (2013), from her research, it was found that there was an effect of teacher professional certification on work motivation. And the same thing was conveyed by Wahyudi and Hadi (2017), with the results of the study: motivation has a significant effect on teacher performance and simultaneously there is a positive and significant influence on the variables of certification, motivation, and competence on the teacher performance of state elementary school in Pakisaji sub district, Malang district.

The dimensions and indicators of motivation according to Uno (2011, p.72), namely: (1) Internal Motivation, with indicators: (a) teacher's responsibility in carrying out the task, (b) carrying out tasks with clear targets, (c) having clear and challenging goals, (d) there is feedback on the results of their work, (e) have feelings of pleasure in work, (f) always try to outperform others, and (g) prioritize the achievements of what they do. External Motivation, with indicators: (a) always trying to fulfill life's needs and work needs, (b) happy to get praise from what he does, (c) work in the hope of getting incentives, and (d) work in hopes of gaining attention from friends and superiors.

RESEARCH LOCATION

This research was conducted on State Senior High School teachers who had received certification and spread in 3 Sawahlunto City State High Schools that had a minimum B Accreditation, namely: State High School 1 Sawahlunto, State High School 2 Sawahlunto, and State High School 3 Sawahlunto.

Conceptual Framework

The conceptual framework describes the effect of independent variables on the dependent variable or the influence of one variable on the other variables to be examined.

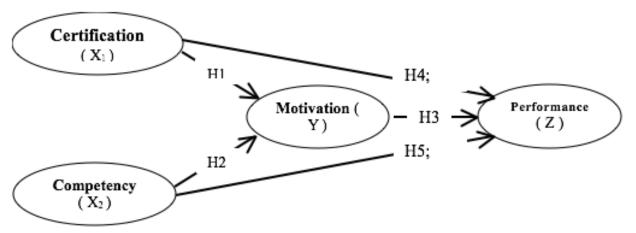


Figure 1: Research Conceptual Framework

Hypothesis

Based on the conceptual framework above, the hypothesis can be formulated in this study as follows:

 H_1 : It is suspected that certification has a significant effect on the motivation of high school teachers in Sawahlunto City

 H_2 : It is suspected that competency has a significant effect on motivation of high school teachers in Sawahlunto City

 H_3 : It is suspected that motivation has a significant effect on performance of high school teachers in Sawahlunto City

 H_4 : It is suspected that certification has a significant influence on the performance of high school teachers in Sawahlunto City

H₅: It is suspected competence gives a significant influence on the performance of high school teachers in Sawahlunto City

 H_6 : It is suspected that motivation as an intervening variable has a significant influence between the certification and performance of high school teachers in the Sawahlnto City

 H_7 : It is suspected that motivation as an intervening variable has a significant influence between competency and performance of state high school in the Sawahlunto City

RESEARCH METHOD

In accordance with the conceptual framework of thought, two structural equations can be made, namely the regression equation that shows the hypothesized relationship. The two equations are as follows:

$$\begin{split} Y &= \rho Y X 1. X 1 + \rho Y X 2. X 2 + e 1 \\ Z &= \rho Z X 1. X 1 + \rho Z X 2. X 2 + + \rho Z Y. Y + e 2 \end{split}$$

Information: X1 = Certification X2 = Competency

Y = Motivation

Z = Performance

rX1X2 = Correlation Coefficient Certification with Competence

rX1Y = Correlation Coefficient Certification with Motivation

 ρ YX1.X1 = Certification Path Coefficient on Motivation

ρYX2.X2 = Competency Path Coefficient on Performance

ρZX1.X1 = Certification Path Coefficient on Performance

ρZX2.X2 = Competency Path Coefficient on Performance

ρZY.Z = Motivation Path Coefficient on Performance

rX2Y = Competency Correlation Coefficient with Motivation

e1 = Other factors that influence motivation

e2 = Other factors that influence performance

DATA ANALYSIS AND DISCUSSION

Characteristics of Respondents

The research respondents were teachers of State High Schools in the City of Sawahlunto, who had certification and were accredited B. Respondents who were permanent teachers in the State High School were State Civil Apparatus. Respondents were scattered in three State High Schools in Sawahlunto City namely State High School 1, State High School 2 and State High School 3. The number of respondents was 94 people. Retrieving information from teachers as respondents in this study was carried out by distributing questionnaires. the questionnaire distributed was 94 questionnaires. The following are information on characteristics of respondents:

Charateristic	Item	Respondent (people)	Percentage (%)	Total (people)	Percentage
Gender	Male	15	16		100
	Female	79	84	94	100
Age	31 – 40 years	15	16		
	41 – 50 years	30	32	94	100
	51 – 60 years	49	52		
Service	10 – 20 years	34	36	94	100
Period	20 – 30 years	60	64	94	100
Education	S1	69	73	94	100
	S2	25	27	54	100

Table 1: Respondent Charateristic

Source: Primary Data, Processed by Author, 2018

Description of Research Results

The results in this study describe the analysis of the effect of certification and competence with motivation as intervening on the performance of Teachers of State High Schools in Sawahlunto City. The results of this study are based on the results of the instruments given to respondents totaling 94 respondents. In general, the results of this study can be seen in the following table:

			20	perperve	Statistics				
	N	Min	Max	Mean	Std. Deviation	Variance	Item Pernyataan	TCR	Ket
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Feiliyataan		
Certificationi	94	356	488	409.36	356	693.524	25	83,79	Baik
(X ₁)									
Competency (X ₂)	94	320	468	420.17	320	961.347	25	78,98	Baik
Motivation (Y)	94	332	444	393.79	332	1015.610	25	89,65	Baik
Performance (Z)	94	372	496	436.81	372	1514.522	45	88,67	Baik
Valid N (listwise)	94					693.524			

Table 2: Results of Variable Descriptive Analysis Descriptive Statistics

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

From the table above it can be seen that from each variable has an average of 39.38% - 43.68% and the level of achievement of the respondents an average percentage of 85.27%. This can be interpreted that each respondent variable has a good average category response.

Validity test

Untuk mengetahui validitas kuesioner dilakukan dengan teknik korelasi *Pearson Product Moment* yaitu dengan cara melakukan korelasi antar skor setiap variabel dengan skor totalnya. Untuk mengetahui validitas kuesioner dilakukan dengan membandingkan r *hitung* dengan r *tabel*. Jika hasil r *hitung* lebih besar dari r *tabel*, maka pernyataan tersebut valid, sebaliknya jika r *hitung* lebih kecil dari r *tabel*, maka pernyataan tersebut tidak valid.

To find out the validity of the questionnaire conducted by Pearson Product Moment correlation technique that is by doing a correlation between the scores of each variable with the total score. To find out the validity of the questionnaire is done by comparing the r count with r table. If the result of r count is greater than r table, then the statement is valid, whereas if r count is smaller than r table, then the statement is invalid.

Item	r hitung	r tabel	Hasil			
Performance (KI) (Z)	0,6091	0,1707	Valid			
Sertification (SI) (X1)	0,5176	0,1707	Valid			
Competency (KO) (X ₂)	0,5222	0,1707	Valid			
Motivation (MO) (Y)	0,6013	0,1707	Valid			

Table 3: Validity Test Results

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

It is known that the value of r calculates all variable statement items greater than r table. This means that all statement items are declared valid.

Reliability Test

Reliability is a test tool to determine the reliability of a variable or to what extent the measurement results have consistency if several measurements are made on the same symptoms. High and low reliability is indicated by a number of Cronbach Alpha coefficients (α) ≥ 0.60 .

	Table 4: Reliability Test Resi	uits
Variabel	Cronbach Alpha (α)	Keterangan
Performance (Y)	0,831	Reliabel
Certification (X ₁)	0,783	Reliabel
Competency (X ₂)	0,831	Reliabel
Motivation (I)	0,831	Reliabel

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

The Cronbach's Alpha value of all variables is greater than 0.6. The meaning is that the measuring instruments used from all variables in this study are reliable.

Normality test

This normality test is used to test the normality of the regression model. Tests are carried out using the Kolmogrov-Smirnov test for each variable. The regression model is normally distributed when the value is sign. Kolmogrov-smirnov each variable is greater than $\alpha = 0.05$. The results of the normality test can be seen in the table below:

One-Sample Kolmogorov-Smirnov Test				
	Unstandardized			
	Residual			
Ν	94			
Kolmogorov-Smirnov Z	1.329			
Asymp. Sig. (2-tailed)	.058			
a. The distribution test is Normal				
b. Calculated from data.				

Table 5: Normality Test Results One-Sample Kolmogorov-Smirnov Test

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

Berdasarkan hasil uji normalitas menggunakan SPSS 21.0 membuktikan bahwa nilai *Asymp. Sig* lebih besar dari *alpha* sebesar 0,05. Dapat disimpulkan bahwa data di atas memenuhi asumsi normalitas.

Based on the results of the normality test using SPSS 21.0 prove that the value of Asymp. Sig greater than alpha of 0.05. It can be concluded that the data above meets the assumptions of normality. From these results it can be seen that this research data has been normally distributed.

Linearity Test

Furthermore, linearity testing using P-P Plot Graph can be seen in the picture below:

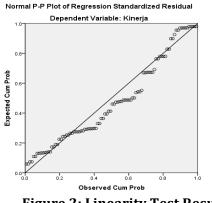


Figure 2: Linearity Test Results

From the picture above, it can be seen that the Normal P P-Plot output points are Normal. This linearity test states that the specification of the model used is correct and the function of the regression equation used is linear.

Multicollinearity Test

Multicollinearity test aims to test whether the regression model is found to have correlation between independent variables. The results of the multicollinearity test from this study can be seen in the following table:

Collineari	Collinearity Statistics		
Tolerance	VIF		
0,741	1,349		
0,633	1,580		
0,585	1,710		
	Tolerance 0,741 0,633		

Table 6. Multicellinearity Test Pecults

Multicollinearity test is a way to detect the presence or absence of multicollinearity in the regression model through value tolerance and variance inflation factor (VIF). The cut-off value that is commonly used to indicate the presence of multicolonity is the tolerance value of ≥ 0.10 or equal to the value of VIF \geq 1.0.

From the table above it is obtained: (a) Certification Variable (X1), Tolerance value = 0.741; and VIF = 1,349. So it can be concluded that this variable does not occur multicollinearity; (b) Competency Variable (X2), Tolerance value = 0.633; and VIF = 1,580. Then it can be concluded that this variable does not occur multicollinearity; (c) Motivation Variables (Y), Tolerance value = 0.585; and VIF = 1,710. So it can be concluded that this variable does not occur multicolonity.

Heteroscedasticity Test

Heteroscedasticity test produces a scatterplot graph as shown in the figure as follows:

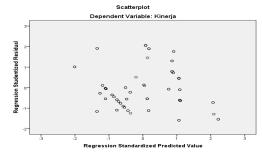


Figure 4: Heteroscedasticity Test Results

From the picture above, which is the Scatterplots output, it is known that: (a) Spread points above and below or around zero, (b) Points not gathering just above or below, (c) Spreading points the data does not form a wavy pattern and then narrows and widens again, and (d) the spread of non-patterned data points. Thus it can be concluded that there is no heteroscedasticity problem, so this regression model qualifies as a good and ideal model.

ANALYSIS AND RESULTS

Path Analysis Path Model I Path Coefficient of Model I

Multiple linear regression analysis was used in this study with the aim to determine whether there is an influence of independent variables on the dependent variable. The statistical calculation in multiple linear regression analysis used in this study is to use the IBM SPSS computer program ver. 21.0. The summary of the results of data processing using the SPSS program are as follows:

Table 7: R Square Y Value

Model Summary							
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate			
1	0,644 ª	0,415	0,402	2,458			
D 11 .	(2)		0	(11.)			

a. Predictors: (Constant), Competency (X₂), Certification (X₁)

b. Dependent Variable: Motivation (Y)

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

Based on the table above, it was found that the significance value of the certification variable $(X_1) = 0.001 < 0.05$, this means that certification (X_1) has a significant effect on motivation (Y). While the competency variable $(X_2) = 0,000 < 0.05$, which means that competency (X_2) also has a significant effect on motivation (Y). while the value of R² (R Square) found in the Model Summary table is 0.415 which gives the meaning that the contribution of variables X₁ and X₂ to Y is 41.5% and the remaining 58.5% is the contribution of other variables not included in research. And from the value of R², obtained e1 by means of e1 = $\sqrt{(1 - 0.415)} = 0.765$.

Table 8: Effect of X_1 and X_2 on Y

Model		Coefficients ^a Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
	(Constant)	4,069	4,397		0,925	0,357
1	Certification (X ₁)	0,295	0,090	0,290	3,292	0,001
	Competency (X ₂)	0,557	0,105	0,468	5,318	0,000

a. Dependent Variable: Motivation (Y)

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

Based on the results above, the structural equation is obtained:

Y = 0,290.X1 + 0,468.X2 + 0,765

Dari pengolahan data di atas maka dapat diperoleh Diagram Jalur Model I, sebagai berikut:

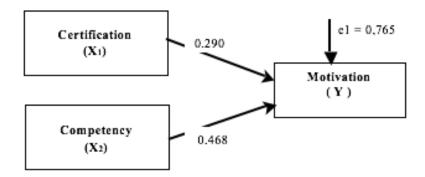


Figure 5: Model I – Path Analysis

B. Path Coefficient Model II

Multiple linear regression analysis is still used in subsequent studies to obtain the model two path coefficients. The aim is to determine whether there is an influence of independent variables (certification and competence) and intervening variables (motivation) on the dependent variable (performance). Can be seen in the table below:

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0,856 ª	0,732	0,724	2,003

a. Predictors: (Constant), Motivation (Y), Competency (X₂),
Certification (X₁)
b. Dependent Variable: Performance (Z)
Source: Primary Data. Processed by IBM SPSS 21.0. 2018

Based on the table above, it is obtained that the significance value of the three variables is certification $(X_1) = 0.318 > 0.05$. This means that certification (X_1) has no significant effect on performance (Z). While the competency variable $(X_2) = 0,000 < 0.05$, which means that competency (X_2) has a significant effect on performance (Z). And for the motivation variable (Y) = 0,000 < 0,05 which means that it has a significant effect on performance (Z). For the value of R² contained in the Model Summary table is 0.732 which gives the meaning that the contribution of variables X₁, X₂ and Y to Z is equal to 73.2% and the remaining 16.8% is the

contribution of other variables not included in the study. And from the value of R², e² is

Tabel 10: Effect of X ₁ , X ₂ and Y on Z	
Coefficients ^a	

Model		dardized	Standardized	t	Sig.
		ficients	Coefficients		
	В	Std. Error	Beta		
(Constant)	-5,191	3,599		-1,442	0,153
Certification (X ₁)	-0,078	0,077	-0,064	-1,004	0,318
Competency (X ₂)	0,663	0,098	0,465	6,788	0,000
Motivation (Y)	0,633	0,085	0,529	7,416	0,000
	Certification (X ₁) Competency (X ₂)	Coeff B (Constant) -5,191 Certification (X1) -0,078 Competency (X2) 0,663	(Constant) -5,191 3,599 Certification (X1) -0,078 0,077 Competency (X2) 0,663 0,098	$\begin{tabular}{ c c c c c } \hline Coefficients & Coefficients \\ \hline B & Std. Error & Beta \\ \hline (Constant) & -5,191 & 3,599 \\ \hline Certification (X_1) & -0,078 & 0,077 & -0,064 \\ \hline Competency (X_2) & 0,663 & 0,098 & 0,465 \\ \hline \end{tabular}$	Coefficients Coefficients B Std. Error Beta (Constant) -5,191 3,599 -1,442 Certification (X1) -0,078 0,077 -0,064 -1,004 Competency (X2) 0,663 0,098 0,465 6,788

a. Dependent Variable: Performance (Z).

obtained by means of $e^2 = \sqrt{(1 - 0.732)} = 0.528$.

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

Based on the results above, the structural equation is obtained:

Z = -0,064.X1 + 0,645.X2 + 0,529.Y + 0,528

From processing of data above, can be obtained the path chart of model II as follows:

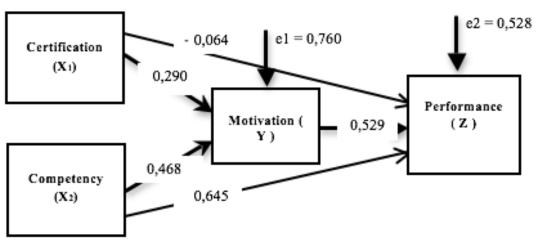


Figure 6: Model II - Path Analysis

C. Hypothesis Test Results

From the two path analysis models, the following hypothesis has been obtained:

- 1. Analysis of the influence of certification (X₁) on motivation (Y) From the analysis of the variables above, the value of variable X1 = 0.001 < 0.05. This means that X_1 has a direct significant effect on Y.
- 2. Analysis of the influence of competence (X₂) on motivation (Y) From the analysis of the variables above, the value of variable $X_2 = 0,000 < 0,05$ is obtained. This means that X₂ has a direct significant effect on Y.
- 3. Analysis of the effect of Motivation variable (Y) on performance (Z) From the analysis of the variables above, the values obtained for Y = 0,000 < 0,05. This means that Y has a significant direct effect on Z.
- 4. Analysis of the effect of Certification (X₁) on performance (Z) From the analysis of the variables above, the value of variable $X_1 = 0.318 > 0.05$ is obtained. This means that X₁ does not have a significant direct effect on Z.
- 5. Analysis of the effect of competency variables (X₂) on performance (Z) From the analysis of the variables above, the value of variable $X_2 = 0,000 < 0,05$ is obtained. This means that X2 has a direct significant effect on Z.
- 6. Analysis of the influence of Certification (X₁) through Motivation (Y) on Performance (Z) From the analysis of the variables above, the direct effect given by the variable X1 to Y is -0.064. Whereas the indirect effect given X1 through Y to Z is the multiplication between the value of beta X1 to Y with the beta value Y to Z which is = $-0.064 \times 0.529 = -0.034$. Then the total effect given X1 to Z is = -0.064 + (-0.034) = -0.098. Based on the results of this calculation, it is known that the direct effect value is -0.064 and the indirect effect value is -0.034 which means that the direct effect value is greater than the indirect effect value. These results indicate that directly X1 through Y has an indirect significant influence on Z.
- 7. Analysis of the influence of competence (X2) through motivation (Y) on performance (Z) From the analysis of the variables above, the direct effect given by variable X2 on Z is 0.645. Whereas the indirect effect given by X2 through Y to Z is the multiplication of the value of beta X2 to Y with the value of beta Y to Z which is = 0.468 x 0.529 = 0.248. Then the total effect given X2 to Z is = 0.645 + 0.248 = 0.893. Based on the results of this calculation, it is known that the direct effect value is 0.468 and the indirect effect value is 0.893, which means that the value of indirect influence is greater than the value of direct influence. This result shows that directly X2 through Y has a significant influence on Z.

Hypothesis testing

Coefficient of Determination (R²)

To find out the magnitude of the coefficient of determination shown by the value of R Square, which can be seen in the table below:

	Model Summarv ^b						
Model R R Square Adjusted R Square Std. Error of the Estimate							
1	0,856ª	0,732	0,724	2,003			
a. Predictors: (Constant), Motivation (Y), Competency (X ₂), Sertification (X ₁)							
b. Dependent Variable: Performance							
- S	Source: Pri	imarv Data	. Processed by IBM	I SPSS 21.0. 2018			

Tabel 11: R Square Z (Performance) Result

From the table above, the value of the determination of keofisien (R Square) is 0.732. This means that the contribution of certification, competence and motivation to performance is 73.2%. While the remaining 26.8% is caused by other factors.

Test Direct and Indirect Effects

The following is a path analysis to examine the relationship between certification and competency to performance and whether the relationship between certification and competency to performance is mediated by motivation with the following figure:

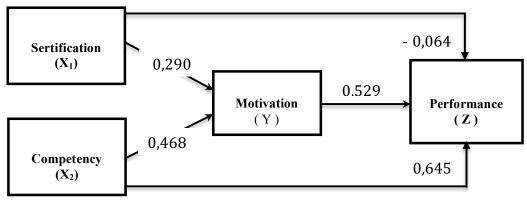


Figure 7: Path Analysis Model

Based on the picture, the path model is proposed based on the theory that the certification has a direct relationship with performance. And then based on the picture, the path model is proposed based on the theory that competence has a direct relationship with performance. However, certification and competence also have an indirect relationship to Performance.

Simultaneous Hypothesis Testing (F Test)

The results of this F test determine the feasibility of a research model. The following are the results of the F Test of research data processing using IBM SPSS 21.0.

ANOVAa						
Model		Sum of Squares	df	Mean Square	F	Sig.
	Regression	988.132	3	329.377	82.122	.000b
1	Residual	360.975	90	4.011		

Table 12. F Test Results - Performance and Competency

a. Dependent Variable: Performance

Total

b. Predictors: (Constant), Motivation, Certification, Competency

1349.106

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

93

Can be seen from the table above that obtained F count value of 82.122. Furthermore, these results will be compared with the value of F table. The search for F table is df (k; n-k). Value k = number of independent variables = 3, and n = respondent = 94. Then df (k; n-k) = df (3; 94-3) = df (3; 91) = 2.70.

So F count = 82.122> F table = 2.700. Then it can be concluded that the independent variables (certification, competence and motivation) simultaneously influence the performance (dependent variable).

Partial Testing of Hypotheses (t test)

The t test is intended to find out how far the influence of one independent variable (certification, competence, and motivation) individually in explaining the dependent variable (performance). The results of the t test in this study can be seen in table 13 below:

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
	(Constant)	4,069	4,397		0,925	0,357
1	Certification	0,295	0,090	0,290	3,292	0,001
	Competency	0,557	0,105	0,468	5,318	0,000

Table 13 - Test Result t - Y (motivation)

a. Dependent Variable: Motivation

Source: Primary Data, Processed by IBM SPSS 21.0, 2018

Based on the results of the t test, proof can be made as follows:

- 1. Effect of Certification on Motivation
 - Partial influence between certification and motivation is 3.292 with sign. 0.001 < α = 0.05. Sign value. smaller than α = 0.05, indicating the acceptance of the hypothesis which states the certification has a significant positive effect on motivation, meaning that the higher the influence of certification, the higher the motivation of the teachers of State High Schools in the City of Sawahlunto.
- 2. Effect of Competence on Motivation

Partial influence between competence to motivation 5.318 with sign. $0,000 < \alpha = 0.05$. Sign value. smaller than $\alpha = 0.05$, indicating the acceptance of the hypothesis that competency has a significant positive effect on motivation, meaning that the higher the influence of competency, the higher the motivation of the teachers of State High Schools in Sawahlunto City.

		Coe	fficients ^a			
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
1	(Constant)	-5,191	3,599		-1,442	0,153
	Sertification (X1)	-0,078	0,077	-0,064	-1,004	0,318
	Competency (X ₂)	0,663	0,098	0,465	6,788	0,000
	Motivation (Y)	0,633	0,085	0,529	7,416	0,000

Table 14: Test Results t – Z (performance)

a. Dependent Variable: Performance

Based on the results of the t test, proof can be made as follows:

1. Effects of Certification on Performance

Partial influence between competency and performance is -1.004 with sign. 0.318> α = 0.05. Sign value. smaller α = 0.05, indicating the rejection of the hypothesis which states that the certification has a significant positive effect on performance, meaning that the higher the influence of certification, the lower the performance of teachers of state high schools in the city of Sawahlunto.

2. Effect of Competence on Performance

Partial influence between competence and performance is 6.788 with sign. 0,000 < α = 0.05. Sign value. smaller α = 0.05, indicating that the acceptance of the hypothesis that competency has a significant positive effect on performance means that the higher the competency, the higher the performance of the teachers of state high schools in the city of Sawahlunto.

3. Effect of Motivation on Performance

Sumber: Data Primer yang diolah, 2018.

Partial influence between motivation and performance is 7.416 with sign. 0,000 < α = 0.05. Sign value. smaller α = 0.05, indicating the acceptance of the hypothesis which states that motivation has a significant positive effect on performance, meaning that the higher the motivation, the higher the performance of the teachers of the State High School in the City of Sawahlunto.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Based on the results of research and data processing that has been done before, some conclusions can be drawn as follows:

- 1. Certification has a significant effect on the Motivation of State High School Teachers in the City of Sawahlunto. This proves that certification increases the motivation of State High School Teachers in Sawahlunto City.
- 2. Competence has a significant effect on the Motivation of Public High School Teachers in Sawahlunto City. This proves that competence does not affect the increase in motivation of State High School Teachers in Sawahlunto City.
- 3. Certification does not have a significant effect on the performance of State High School Teachers in the City of Sawahlunto. This means that certification does not affect the performance improvement of the State High School Teachers in Sawahlunto City.
- 4. Competence has a significant effect on the performance of State High School Teachers in Sawahlunto City. This means that competence causes an increase in the performance of State High School Teachers in Sawahlunto City.
- 5. Motivation has a significant effect on the performance of State High School Teachers in the City of Sawahlunto. This proves that the increase in motivation will affect the performance improvement of the State High School Teachers in the City of Sawahlunto.
- 6. Indirectly Certification through motivation has a significant influence on the performance of State High School Teachers in Sawahlunto City. It is intended that the increase in performance is not directly affected by certification through the motivation of State High School Teachers in Sawahlunto City.
- 7. Direct competence through motivation has a significant influence on the performance of State High School Teachers in the City of Sawahlunto. This means that the increase in performance is directly affected by certification through increasing the motivation of State High School Teachers in Sawahlunto City.

Suggestion

Based on the findings and conclusions of the study. For this reason, suggestions are as follows:

- 1. It is necessary to increase competency which includes technical, social, personality and professionalism.
- 2. Increased techniques and process strategies for granting teacher certificates / certifications.
- 3. Provision of teacher certification must be able to improve the competence of teachers / educators by utilizing additional income / certification to participate in quality improvement activities, buy books, laptops and others to increase their professional abilities and insight.
- 4. Giving teacher certification through the administration selection process, written test up to special training is one way to get a competent teacher with his expertise as a professional teacher so as to produce competent students.
- 5. In order for Teacher Motivation to be consistent towards the better over time, the Government should distribute the certification funds smoothly.
- 6. There needs to be a continuous evaluation of the competencies that must be owned and carried out by a teacher (professional / certification especially).

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