

The Contribution Of Conceptual, Interpersonal, And Technical Competence Of A Principal To Teachers' Job Satisfaction And Their Effect On Teachers' Work Commitment

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THE CONTRIBUTION OF CONCEPTUAL, INTERPERSONAL, AND TECHNICAL
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THEIR EFFECT ON TEACHERS' WORK COMMITMENT

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THE CONTRIBUTION OF CONCEPTUAL, INTERPERSONAL, AND TECHNICAL COMPETENCE OF A PRINCIPAL TO TEACHERS' JOB SATISFACTION AND THEIR EFFECT ON TEACHERS' WORK COMMITMENT

The paper aims to examine the influence of a principal's managerial competence on teachers' job satisfaction and work commitment. The study belongs to qualitative type with a cross-sectional design. The samples are 77 teachers from private junior high schools in Yogyakarta, all of which were selected using a random sampling technique. The data were collected through a questionnaire, which has been tested for validity and reliability. The data were analyzed using PLS SEM because the samples used were less than a hundred. The path coefficient revealed several results. First, work commitment significantly influences the teachers' job satisfaction, with t-value 4.132. Second, a principal's conceptual competency does not significantly influence the teachers' work commitment and job satisfaction, with a t-value of 1.600 and 0.851, respectively. Third, the principal's interpersonal competency significantly influences the teachers' work commitment and job satisfaction, with t-value 2.058 and 2.939, respectively. Fourth, a principal's technical competency significantly influences the teachers' work commitment and job satisfaction with t-value 3.003 and 2.091, respectively. Besides, the hypothesis which was tested simultaneously to the variables and was evaluated using R-square adjusted value path I resulted in 0.762, which means the conceptual competency, interpersonal competency, and technical competency simultaneously influence job satisfaction up to 76.2%, categorized as substantial (strong). Meanwhile, the result of R-square adjusted path II is 0.363, which means that the three competencies simultaneously influence job satisfaction up to 36.3%, categorized as weak. The findings have important implications for those involved in developing teachers' professionalism, in that improving a principal's interpersonal and technical will give a positive influence on the teachers' job satisfaction and work commitment.

Keywords: conceptual competency, interpersonal competency, technical competency, work commitment, job satisfaction.

Introduction

Education is a productive and strategic investment in an attempt to improve human resources quality. Quality education highly determines the quality of human resources and future civilization. It can be actualized through an appropriate process, which is influenced ³⁷ by internal and external factors. One of the key factors for quality education is teachers' productivity and quality as the motor of the learning process (Suyatno et al., 2019). A teacher's quality can be improved when he is highly satisfied with the environment, leading to improving work commitment. This way, teachers are willing and able to achieve quality learning for quality education. It ¹ is in line with the research conducted by Taurisa and Intan in Maryati, Astuti, & Udin (2019) stating that teachers' performance is influenced by two factors, internal factors, such as work commitment and job satisfaction, as well as external factors, such as leadership, school culture, and work security. A research conducted by Kennerly in Celdran (2020) confirm that work satisfaction is one of the important factors related to teachers' performance, in that if the teachers are satisfied, their performance will increase. Besides, Cormick and Donohue stated that work motivation and performance are influenced by work commitment (Juaneda-Ayensa, Emeterio, & González-Menorca, 2017). The studies prove that job satisfaction and work commitment become the determinant factors of teachers' quality in an organization.

The increase in teachers' job satisfaction and work commitment can be achieved if a school can implement appropriate school management, which can be conducted through managerial competency. Springer (2011) revealed that an organizational leader, as a manager, can increase the employees' performance by implementing suitable management to increase job satisfaction and work commitment. Several studies have found that the strategies of an institution leader in managing the organization influences

job satisfaction and work commitment of the subordinates (Celdran, 2020; Mahfouz et al., 2019; Top et al., 2015; Mehrad et al., 2014; Jumintono et al., 2018). Organizational management strategies will be effective if a principal has good managerial competency. Katz in Thomas (2009) proposes that a principal's managerial competency is divided into three, which are conceptual competency, technical competency, and interpersonal competency. A principal is required to have them in order to optimize human resources potentials in the school to achieve the collective goals (Egboka et al., 2013). Another study claims that managerial skills of a principal have a significant correlation with the communication skills, community behavior, as well as school climate and culture (Harahap, 2017; Sabanci, 2016; Werang, 2014). Indeed, school climate and culture created by the principal will influence the teachers' job satisfaction (Maryati et al., 2019). Similarly, teachers' work commitment will increase if they are in an organization having good working climate (Fu et al., 2014).

The studies revealed that a principal's managerial competency is correlated with teachers' job satisfaction and work commitment. However, not many kinds of literature discuss the influence of a principal's managerial competency on teachers' job satisfaction and work commitment. With the gap, the present study aims to reveal the influence of a principal's managerial competency, which consists of conceptual, technical, and interpersonal, on teachers' job satisfaction and work commitment. The research findings are expected to contribute to the concept of three managerial competencies of a principal in managing the school, leading to an increase in teachers' job satisfaction and work commitment. In addition, the results can be one of the references for other principals in arranging management strategies and appropriate leadership models to improve the teachers' job satisfaction and work commitment.

Literature Review

Conceptual Competency of a Principal

Katz states that conceptual competence means “the ability to see the enterprise as a whole; it includes recognizing how the various functions of organization depend on one another, and how changes in any one part affect all the others; and it extends to visualizing the relationship of the individual business to the industry, the community, and the political, social, and economic forces of the nation as a whole. Recognizing these relationships and perceiving the significant elements in any situation, the administrator should then be able to act in a way which advances the overall welfare of the total organization”. Further, Katz revealed that conceptual competence highly depends on the leader’s ability to create and implement a concept in terms of organizational policies (Thomas, 2009). According to Thamaraiselvi (2018), a principal is required to have conceptual competency to establish the strategic vision and plans of the organization. A leader can reach the highest management if he has better conceptual competency. Through conceptual competency, a manager can analyze the condition and the situation as well as overcoming some problems or obstacles faced by the organization(Sidek & Mohamad, 2014).

Technical Competency of A Principal

Katz inSidek et al(2014)explains that technical competency is the knowledge about the skills in accomplishing a particular task. It also refers to the knowledge and skills of a principal, which is necessary to complete a particular task. In other words, technical competency is necessary to help a principal completing his duties(Batra & Sharma, 2017). According to Katz, technical competency includes the skills in a particular field, the ability to analyze, and the ability to use an appropriate technique(Thamaraiselvi,

2018).Seyedinejat (2014)reveals that delegating power, distributing tasks, allocating human resources, improving human resources quality, supervising, and evaluating the performance are included in this competency.

Interpersonal Competency of a Principal

Katz adds that interpersonal competency or natural competency is the ability of a principal to work with other people through effective collaboration and communication, as well as the ability to motivate others(Werang, 2014). Sutisna(Mukarromah & Purbaningrum, 2019)suggests that human skills are the authority of a principal in creating two-way communication between the school and society, which includes building good relation to support the productivity of the organization members.

Job Satisfaction of a Teacher

Hoy and Miskel propose that job satisfaction is the feeling of satisfaction of an individual towards his job, resulting from the combination of his psychological aspect and environment(Nurdin, 2015). Hakim and Chen state that job satisfaction has a significant consequence to the organization and the employees. A satisfied employee has less possibility to do counterproductive behavior within an organization(Yücel, 2012). Meanwhile, Robbins and Judge confirm that job satisfaction is necessary since higher job satisfaction will create a positive feeling towards the job, while lower satisfaction will create a negative feeling(Yücel, 2012). Job satisfaction is divided into two categories: affective and cognitive. Affective job satisfaction means an individual's emotion who sees his jobs as pleasure, while cognitive means the feeling towards salary, working environment, career development, and working hours (Dave & Dharmesh, 2014). Smith et al in his study, found five aspects of job satisfaction:

satisfaction towards the supervision, satisfaction towards the colleagues, ¹³ satisfaction towards the salary, satisfaction towards job promotion, and satisfaction towards the job(Huang, You, & Tsai, 2012).

Teacher's Work Commitment

Meyer et al explain that work commitment is a psychological ¹⁶ relationship between an individual and the organization where he works. It determines the ¹⁶ decision to continue or to leave the organization(Tran, Nguyen, Nguyen, & Hoang, 2020). According to Luthans, organization commitment shows loyalty and attention to the success of the organization. An organization of which the employees commit will achieve the expected results, such as high performance, low resignation level, and low absence(Arifin, Saputra, Puteh, & Qamarius, 2019). Meyer and Allen inYücel (2012)explains that organizational commitment is divided into three. First, it is an ³⁶ affective commitment, which serves as an emotional bond between employees and the organization. Second is a continuous commitment, which appears because of financial consequences if the employee leaves the organization. The third is normative commitmentreflecting the willingness to stay at the organization or ²⁸ refers to an individual's obligation when he decides to stay in the organization.

The Relation between a Principal's Managerial Competency and Job Satisfaction and Work Commitment

Managerial competency is one of the factors influencing a teacher's performance. Competency shows whether an individual can or cannot do an activity supporting his performance. A principal, functioning as the top management in the school, serves to ²⁷ create a comfortable working environment to improve the teachers' performance, which

is marked by the improvement of ³⁹ job satisfaction and work commitment. It is relevant to ^{the} research conducted by Part, stating that appropriate management, especially in managing human resources, will improve job satisfaction and work commitment(Jandaghi, Mokhles, & Bahrami, 2011). Vein et al conclude that management which isbased on effective communication between the top leader and his subordinates is significant to improve the employees' commitment and satisfaction(Orebiyi, 2011). Another study also reveals that visionary management leadership proves to create ¹² a positive influence on organizational commitment and job ²¹ satisfaction(Top et al., 2015). The studies revealed that organizational management is related to job satisfaction and organizational commitment. To implement the management, a principal's managerial competency is necessary.The managerial competency may be correlated with teachers' ²⁶ job satisfaction and work commitment.

Based on the theories, the hypothesis of the research includes the following.

H1: A principal's conceptual competency influence teachers' job satisfaction

H2: A principal's interpersonal competency influences teachers' job satisfaction

H3: A principal's technical competency influences teachers' job satisfaction

H4: A principal's conceptual competency influences teachers' work commitment

H5: A principal's interpersonal competency influences teachers'work commitment

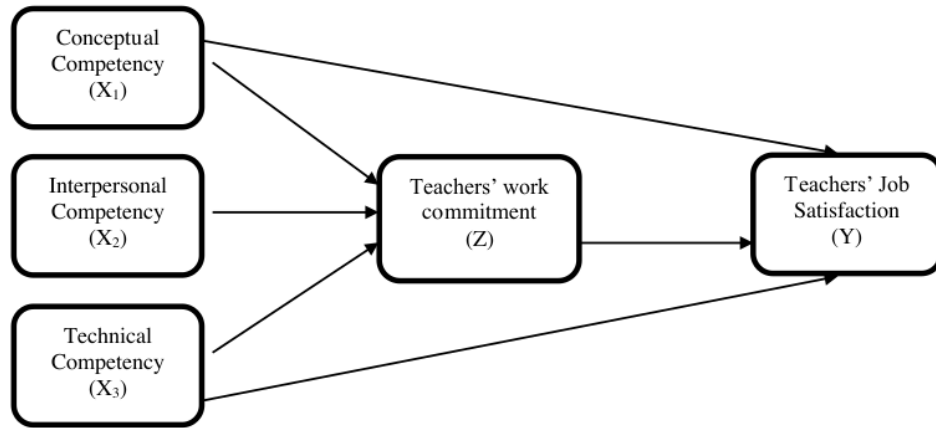
H6: A principal's technical competency influences teachers' work commitment

H7: Work commitment influences teachers' job satisfaction

H8: A principal's conceptual, technical, and interpersonal competencies, as well as work commitment,simultaneously influence teachers' job satisfaction

The scheme of the research hypothesis is illustrated in figure I.

Figure I. Hypothesis Scheme



Methods

The research belongs to the quantitative type with a cross-sectional study. The respondents include 77 teachers from three private schools in Yogyakarta, selected using a random sampling technique. The demography of the respondents is presented in table 1.

Table 1. Respondents' Profile

Profile	Description	Number of Respondents	Percentage
Gender	Male	49	63%
	Female	28	37%
Age	15-20 years old	13	17%
	21-30 years old	32	42%
	31-40 years old	18	23%
	41-50 years old	14	18%
Highest education level	S1	72	94%
	S2	5	16%

The study has several variables. First is the independent variable, which is the principal's conceptual competency (X₁), principal's interpersonal competency (X₂), principal's technical competency (X₃). Second is the dependent variable, which is teachers' job satisfaction (Y). The third is the intervening variable, which is teachers'

work commitment (Z). The empiric data related to the variables were obtained through a questionnaire (close-ended) distributed to the respondents. The questionnaire consists of five: questionnaires about the principal's conceptual competency, the questionnaire about the principal's technical competence, the questionnaire about the principal's interpersonal competency, the questionnaire about job satisfaction, and the questionnaire about teachers' work commitment. Each uses the Likert scale model with a score of 1 to 5 in the form of interval data. The questionnaire for the principal's managerial competency adopted *skill inventory* (Northouse, 2010), while the job satisfaction is adapted from *Minnesota Satisfaction Questionnaire* (Martins & Proenca, 2012) and work commitment from *Organizational Commitment Questionnaire or OCOQ* (Mowday, Steers, & Porter, 1979). The questionnaire used level 1 for "never", 2 for "seldom", 3 for "sometimes", 4 for "often", and 5 for "always".

Data Analysis

The data were analyzed using *Partial Least Square Structural Equation Modeling (PLS SEM)*. It was chosen because the number of samples is less than 100. PLS SEM is appropriate since it can answer the empiric research questions using a small number of samples (Hair, Ringle, & Sarstedt, 2011). According to Anderson Garbing in Low, Ong, & Tan (2017), the data analysis using Smart PLS is carried out in two steps. It begins with evaluating the reflective and formative measurement models. The reflective evaluation includes the internal consistency test, convergence validity test, and discriminant validity test, while formative includes the co-linearity test and significance of indicator relevance test. The evaluation results will be the benchmark for the next step, which is determining the significant relationships among the variables and hypothesis testing. The followings are the analysis results conducted using PLS

1. Indicator Testing

Construct Reliability and Validity Test

Table 2. Construct Reliability and Validity

Variable	Cronbach's Alpha	Composite Reliability	AVE	Predicate
Job Satisfaction	0,891	0,911	0,511	Reliable and Valid
Work Commitment	0,861	0,891	0,507	Reliable and Valid
Interpersonal Competency	0,910	0,926	0,557	Reliable and Valid
Conceptual Competency	0,899	0,916	0,525	Reliable and Valid
Technical Competency	0,909	0,925	0,554	Reliable and Valid

According to Nunally and Bernstein, a construct is reliable if the value of Cronbach's Alpha is at least 0.60, while Chin states that the reliability is fulfilled if the score of Composite Reliability is at least 0,60 (Budhiasa, 2016). Meanwhile, the indicator validity is reached if the average variance extracted (AVE) is above 0,50 (Hair et al., 2011). Based on the requirements, it can be concluded that the variable construct in the present study fulfilled the convergent reliability and validity. The validity shows that each latent variable can explain half of the indicator variant.

Discriminant Validity Test

Table 3 HTMT Ratio

Variable	Job Satisfaction	Work Commitment	Interpersonal Competency	Conceptual Competency	Technical Competency
Job Satisfaction					
Work Commitment	0,797				
Interpersonal Competency	0,899	0,628			
Conceptual Competency	0,772	0,507	0,989		
Technical Competency	0,873	0,650	0,975	0,921	

The discriminant validity test is used to determine a construct that is empirically different from others. One of the tests is carried out using heterotrait-monotrait (HTMT) method ratio. According to Henseler, discriminant validity is achieved if the HTMT measurement reaches a maximum of 0.90. Table 3 presents the score of HTMT for most of the constructs that have fulfilled the discriminant validity (Budhiasa, 2016). Conceptual – interpersonal competency, technical – interpersonal competency, and technical – conceptual competence reached HTMT ratio more than 0.90. Hence, the three did not fulfill the discriminant validity, which means they are not unique.

2. Hypothesis Testing

Path Coefficients/Direct Effect

Hypothesis testing is carried out using Bootstrapping to path coefficient analysis. Juliandi (2018) proposes that direct effect analysis is useful to test the direct influence of an exogenous variable (independent variable) on the endogenous variable (dependent variable). If the path coefficient value is positive, the influence is one-way, and if the result is negative, the influence is contradictory. Besides, the hypothesis showing the relation among variables is accepted if the path coefficients for t-statistics above 1.96 and p-value less than 0,05 (Low et al., 2017).

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Table 4. Path Coefficients

	Original Sample	Sample Mean	Standard Deviation	T statistics	P values	Hypothesis
KMK → KPK	0,315	0,313	0,076	4,132	0,000	Accepted
KI → KPK	0,499	0,484	0,170	2,938	0,003	Accepted
KI → KMK	0,427	0,408	0,208	2,058	0,040	Accepted
KK → KPK	- 0,124	- 0,118	0,146	0,851	0,395	Rejected
KK → KMK	- 0,339	- 0,316	0,212	1,600	0,110	Rejected
KT → KPK	0,283	0,298	0,136	2,091	0,037	Accepted
KT → KMK	0,509	0,518	0,169	3,003	0,003	Accepted

Notes: KMK (komitmen kerja-work commitment); KPK (kepuasan kerja-job satisfaction); KI (kompetensi interpersonal-interpersonal competency); KK (kompetensi konseptual-conceptual competency); KT (kompetensi teknik-technical competency).

Table 4 revealed several results. First, KMK→ KPK reached the path coefficient 0.315 with t-statistics 4.132 and p-value 0.00, meaning that work ³⁴ commitment has a positive and significant influence on job satisfaction. Second, KI →KPK reached the path coefficient 0.499 with t-statistics 2.938 and p-value 0.03, meaning ¹ that interpersonal competency has a positive and significant influence on job satisfaction. Third, KI → KMK reached the path coefficient 0.427 with t-statistics 2.058 and p-value 0.04, meaning ¹ that interpersonal competency has a positive and significant influence on work commitment. Fourth, KK → KPK reached the path coefficient -0.124 with t-statistics 0.851 and p-value 0.395, meaning that conceptual competency ¹ does not have a significant influence on job satisfaction. Fifth, KK → KMK reached the path coefficient 0.339 with t-statistics 1.600 and p-value 0.110, meaning that conceptual competency ⁵ does not have a significant influence on work commitment. Sixth, KT → KPK reached the path coefficient of 0.283 with t-statistics 2.091 and p-value 0.037, meaning that technical competency ³² has a positive and significant influence on job satisfaction. Seventh, KT → KMK reached the path coefficient 0.509 with t-statistics 3.003 and p-value 0.003, meaning that technical competency ² has a positive and significant influence on work commitment.

Indirect Effect Analysis

According to Juliandi (2018), indirect effect analysis is useful to test the hypothesis for an indirect influence of exogenous variables on endogenous variables mediated by an

intervening variable. If p-values are less than 0.05, there is a significant indirect effect, which means that the intervening variable mediates the exogenous and endogenous variables. Conversely, if the p-values are above 0.05, there is no significant indirect effect. It means that the intervening variable does not mediate the variables. The results of the bootstrapping are presented in table 5.

Table 5 Indirect Effect

	Original Sample	Sample Mean	Standard Deviation	T statistics	P values	Explanation
KI →KPK	0,135	0,130	0,077	1,750	0,081	Not significant
KK → KPK	- 0,107	- 0,099	0,072	1,490	0,137	Not significant
KT → KPK	0,160	0,161	0,063	2,537	0,011	Significant

Table 5 shows several findings. First, there is no indirect effect of interpersonal competency on job satisfaction because the p-value is 0.081, which means that work commitment, as the intervening variable, does not mediate the interpersonal competency and teachers' job satisfaction. Second, there is no indirect effect of conceptual competency on job satisfaction because the p-value is 0.137, which means that work commitment, as the intervening variable, does not mediate the conceptual competency and teachers' job satisfaction. Third, there is an indirect effect of technical competency on job satisfaction because the p-value is 0.011, which means that work commitment, as the intervening variable, mediates the technical competency and teachers' job satisfaction.

R square score Evaluation

R-square is the proportional measurement of the exogenous variable (independent variable) that can explain the endogenous variable (dependent variable)(Juliandi, 2018).

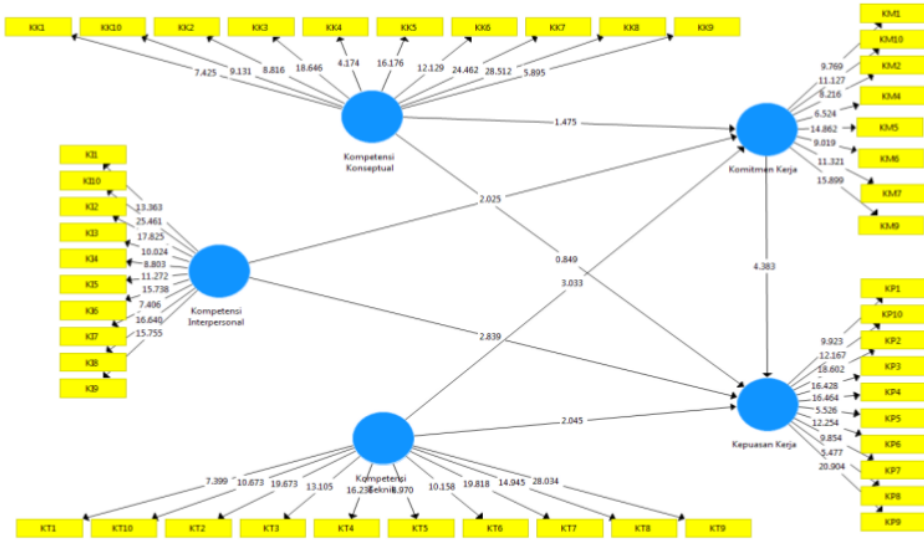
The value used in the present study is R-square adjusted because it has more than one exogenous variable. The PLS Algorithm Report is presented in table 6

Table 6. R-Square

Variable	R-Square	R-Square Adjusted
Job Satisfaction	0,774	0,762
Work Commitment	0,388	0,363

According to Hair et al. (2011), R-square value has separate criteria in the categorization of the relationship model among variables. If R-square is 0.75, the model is substantial (strong), R-square 0.50 is moderate (medium), and R-square 0.25 is weak. Based on table 6, it is understood that the R-square adjusted path I is 0.752, meaning that conceptual competency, interpersonal competency, and technical competency simultaneously influence the job satisfaction up to 76.2%, which is substantial. Meanwhile, path II reached 0.363, meaning that the meaning that conceptual competency, interpersonal competency, and technical competency simultaneously influence job satisfaction up to 36.3%, categorized weak. The scheme for the relations among variables using SmartPLS is presented in figure 2

Figure 2. Scheme for the relations among research variables



Discussions

The present study answers seven hypotheses as mentioned in the introduction. The followings are the hypothesis proven for the research.

First, a principal's conceptual competency does not influence teachers' job satisfaction

The result of the path coefficient proves that hypothesis 1, in that a principal's conceptual competency influences job satisfaction is rejected because the score is -0.124 with t-statistics 0.851 and p-value 0.395. it means that conceptual competency does not influence job satisfaction. Katz suggests that conceptual competency is the skills to create a vision, strategic plans, and creativity in developing the organization. Hence, competency is the key for a leader to see the organization as a whole, leading him to overcome any problems from a systemic point of view (Mukarromah & Purbaningrum, 2019). Based on the definition, it is clear that conceptual competence determines the future of an organization, manifested in the concept, strategic plans, and creativity. In other words, within a school, the competency is not related to and does not give a direct effect on the teachers' progress and well-being. Therefore, conceptual competency does not significantly influence teachers' ¹² job satisfaction. It is in line with the findings by Suresh & Kodikal (2015) stating that conceptual competency gives the least contribution, compared to technical and interpersonal competency, to support the improvement of subordinates' job satisfaction. Another research confirmed that teachers' job satisfaction does not depend on the ability of a leader in building the concept of the school. Instead, it is determined by the opportunities obtained by teachers to share their perspectives on the vision to make progress (Erdem, İlğan, & Uçar, 2014).

Second, a principal's interpersonal competence has a positive and significant influence on teachers' job satisfaction

The results of the path coefficient provide evidence that the hypothesis stating that a principal's interpersonal competency influences job satisfaction is accepted because the result of the path coefficient for the relation between both variables is 0.499 with t-statistics 2.938 and p-value 0.003. It means that interpersonal competency significantly and positively influences job satisfaction. The positive influence shows that the higher the principal's competency, the higher the teachers' job satisfaction. Interpersonal competency is the skills in building a good relationship with all school members. Katz in Mukarromah & Purbaningrum (2019) states that interpersonal competency is the knowledge about human behavior and their relationship to one another, including the ability to understand the feeling, to motivate, to communicate, as well as building cooperative and effective relationship. It shows that interpersonal competency reflects the leader's behavior in managing the relationship with the subordinates – in this case, teachers. Therefore, the behavior has a significant effect on the teachers' job satisfaction. Akdol & Arikboga (2015) conclude that a leader's behavior includes trust and supports for the subordinates. Further, research conducted by Cox and Manion in Orebiyi (2011) and Kituto (2011) state that interpersonal interaction that involves communication with the employees has a significant effect on their job satisfaction. One of the factors influencing job satisfaction is the ability of a leader in motivating the subordinates. It is similar to the findings by Celdran (2020) revealing that inspirational motivation from a leader is effective to improve the subordinates' job satisfaction.

Third, a principal's technical competency has a positive and significant influence on teachers' job satisfaction

The result of the path coefficient revealed that the hypothesis, stating that a principal's technical competency influences teachers' job satisfaction is accepted because the score is 0.283 with t-statistics 2.091 and p-value 0.037. It means that technical competence has a positive and significant influence on job satisfaction. The higher the competency, the higher is the job satisfaction. Sutisna proposes that technical competency in education is the ability of a principal to understand, respond to, and be able to use learning methods, which also includes the skills to monitor the learning process conducted by the teachers as well as helping them develop a learning technique (Mukarromah & Purbaningrum, 2019). A principal's technical competency is directly related to the improvement of teachers' quality and productivity. Some realizations of the competency manifest in the ability of a principal in creating a comfortable working climate, providing training to improve the teachers' competency, and delegating the tasks appropriately. The result is supported by the research by Aydin, Uysal, & Sarier (2012) showing that appraisal, promotion, supervision, as well as comfortable climate highly influence teachers' job satisfaction. The newest research by Toropova, Myrberg, & Johansson (2020) confirms that the school climate as one of the realizations of a principal's leadership skills is closely related to teachers' job satisfaction. The more comfortable is the teachers, the more satisfied they are towards the job.

Fourth, a principal's conceptual competency has a positive and significant influence on teachers' work commitment

The hypothesis, stating that a principal's conceptual competence influences teachers' work commitment is rejected because the path coefficient result is -0.339 with t-statistic 1.600 and p-value 0.110. It means that conceptual competency significantly influences work commitment. Similar to job satisfaction, conceptual competency does not have a

significant influence on work commitment because conceptual competency does not give an indirect effect on the teachers' psychological aspect that shapes their commitment. Dee, Henkin, & Singleton (2006) confirm that organization design and strategic plans arranged by the principal does not influence the work commitment, especially when the principal does not involve the teachers in the process. Besides, curriculum preparation does not significantly influence teachers' work commitment (Dannetta, 2002).

Fifth, a principal's interpersonal competency has a positive and significant influence on teachers' work commitment

The hypothesis stating that a principal's interpersonal competency influences work commitment is accepted because the path coefficient score is 0.427 with t statistics 2.058 and p-value 0.040. it means that interpersonal competency has a positive and significant influence on work commitment. The positive influence shows that the improvement of interpersonal competency will improve the teachers' work commitment. Interpersonal competency has a direct and significant effect on teachers' work commitment since the indicators of the competency influences the teachers' psychological aspect. Several indicators include the principal's roles as a motivator and role model. Besides, it is also about the principal's behavior to all teachers, the ability to appreciate the teachers' achievement, skills to communicate and to work with the teachers, as well as understanding their condition. The results of research by Matin, Jandaghi, Karimi, & Hamidzadeh (2010) found that the ability to cooperate with the teachers, particularly in building a working team, is closely related to teachers' work commitment. Another study reveals that motivation coming from the principal and interpersonal communication influence the teachers' work commitment (Tansky & Cohen, 2001).

Sixth, a principal's technical competence has ² a positive and significant influence on teachers' work commitment

The hypothesis stating that a principal's technical competency influences work commitment is accepted because the path coefficient score is 0.509 with t statistic 3.003 and p-value 0.003. It means that technical competency, positively and significantly, influences work commitment. Tohardi suggests that the productivity of teachers and staff will improve along with the increase of a principal's technical competency (Prasojo, 2017). It shows that technical competency will have a great impact on the teachers' productivity, which is also influenced by their work commitment. Technical competency refers to the quality of the supervision carried out by the principal, training for the teachers' competencies, and other facilities to help teachers improve their performance. Saha (2016) concludes that performance assessment, training, and competency development shape an employee's work commitment. The provision of training and development of teachers as part of the principal's technical competence has proven to increase the employees' self-esteem, leading to improving their work commitment to the organization (Chelliah, Sundarapandiyam, & Vinoth, 2015).

Seventh, work commitment has ¹ a positive and significant influence on teachers' job satisfaction

The hypothesis stating that work commitment influences job satisfaction is accepted because the path coefficient score is 0.315 with t statistics 4.132 and p-value 0.000. It means ¹⁰ that work commitment has a positive and significant influence on job satisfaction. The influence proves that the improvement of work commitment will also improve the teachers' job satisfaction. Mowday and Meyer state that organizational commitment is a bond between the individuals and the organization, which lessens the

possibility of the employees to leave the organization and improve their satisfaction and comfort in the organization (Matin et al., 2010). The results also support similar studies, which found that work commitment or organizational ⁴ commitment has a positive and significant correlation with job satisfaction (Zhou et al., 2014; Gangai & Agrawal, 2015; Kelly, 2015).

Eight, a principal's conceptual, interpersonal, and technical competency, as well as work commitment simultaneously influence teachers' job satisfaction

The analysis and interpretation of R-square adjusted results in several findings. The R-adjusted path I model scored 0.762, which means that the variables (conceptual, interpersonal, and technical competency) simultaneously influence job satisfaction up to 76.2%, categorized as substantial (strong). Meanwhile, the path II model scored 0.363, which means that conceptual, interpersonal, and technical competence, as well as work commitment simultaneously influence job satisfaction up to 36.3%, categorized as weak. Iqbal (2010) states that a principal's managerial competency can increase teachers' work commitment. Springer (2011) mentions that managerial strategy as the manifestation of a principal's managerial competency strongly influences job satisfaction through motivation and work commitment.

Conclusion

The research results in several findings. First, work commitment significantly influences teachers' job satisfaction. Second, a principal's conceptual competency does not significantly influence teachers' work commitment and job satisfaction. Third, a principal's interpersonal competency significantly influences work commitment and job satisfaction. Fourth, a principal's technical competency ⁴ has a significant influence on work commitment and job satisfaction. Fifth, a principal's conceptual, technical, and

interpersonal competence, as well as work commitment simultaneously influence teachers' job satisfaction. The findings show that interpersonal and technical competence ³ have a higher effect on teachers' job satisfaction and work commitment, compared to conceptual competency. Conceptual competency does not significantly influence teachers' work commitment and job satisfaction in the three target schools. Based on the analysis of the scores obtained for the conceptual competency, it turned out that the indicator of the principal's capability in organizing the teachers is low. Hence, the principal has not had a comprehensive understanding of the concept of organizing the teachers. Therefore, the ³ teachers' work commitment and job satisfaction are influenced by other factors outside the conceptual competency of the principal. The results of the path coefficient for the independent variables show that the great effect on work satisfaction comes from the principal's interpersonal competency. The competency refers to the skills of a principal in building the relationship with the subordinates, such as the ability to communicate, to work with the subordinates, and to treat the subordinates properly. Good interpersonal competency means that the principal can provide comforts, which leads to the teachers' job satisfaction.

The research can be used as a scientific reference for the policymakers of education, either central or local government, or the board of education, in that teachers' work commitment and ²³ job satisfaction can be improved by improving the quality of the principal's interpersonal and technical competency. The study takes a few samples from several private schools, which cannot represent the characteristics and quality of all principals in Yogyakarta. Therefore, the next researchers are recommended to investigate the correlation among the variables with a bigger number of samples and to use longitudinal research because the study uses a cross-sectional design.

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Reference

- Akdol, B., & Arikboga, F. S. (2015). The Effects of Leader Behavior on Job Satisfaction: A Research on Technology Fast50 Turkey Companies. *Procedia - Social and Behavioral Sciences*, 195, 278–282. <https://doi.org/10.1016/j.sbspro.2015.06.159>
- Arifin, A. H., Saputra, J., Puteh, A., & Qamarius, I. (2019). The role of organizational culture in the relationship of personality and organization commitment on employee performance. *International Journal of Innovation, Creativity and Change*, 9(3), 105–129.
- Aydin, A., Uysal, S., & Sarier, Y. (2012). The Effect of Gender on Job Satisfaction of Teachers: A Meta-Analysis Study. *Procedia - Social and Behavioral Sciences*, 46, 356–362. <https://doi.org/10.1016/j.sbspro.2012.05.122>
- Batra, M. R., & Sharma, B. P. (2017). A Perception of Managerial Skill for Leading Educational Institute. *International Journal For Innovative Research In Multidisciplinary Field*, 3(4), 98–103.
- Budhiasa, S. (2016). *Analisis Statistik Multivariate Dengan Aplikasi SEM PLS SMARTPLS 3.2.6* (1st ed.; J. Atmaja, ed.). Bali: Udayana University Press.
- Celdran, M. C. B. (2020). Leadership styles and job satisfaction in the colleges of nursing among the universities in Zamboanga City. *International Journal of Innovation, Creativity and Change*, 11(7), 444–455.
- Chelliah, S., Sundarapandiyam, N., & Vinoth, B. (2015). A Research on Employees' Organisational Commitment in Organisations: A Case of Smes in Malaysia. *International Journal of Managerial Studies and Research (IJMSR)*, 3(7), 10–18.
- Dannetta, V. (2002). What Factors Influence a Teacher's Commitment to Student Learning? *Leadership and Policy in Schools*, 1(2), 144–171. <https://doi.org/10.1076/lpos.1.2.144.5398>

- Dave, N., & Dharmesh, R. (2014). A research on the factors influencing job satisfaction of MBA faculty members in Gujarat state. *International Journal of Advance Research in Computer Science and Management Studies*, 2(2), 218–223.
- Dee, J. R., Henkin, A. B., & Singleton, C. A. (2006). Organizational commitment of teachers in Urban schools: Examining the effects of team structures. *Urban Education*, 41(6), 603–627. <https://doi.org/10.1177/0042085906292512>
- Egboka, P. N., Ezeugbor, C. O., & Enueme, C. P. (2013). Managerial Skills And Enhancement Strategies Of Secondary School Principals. *Journal of Education and Practice*, 4(26), 168–175.
- Erdem, M., İlğan, A., & Uçar, H. İ. (2014). Relationship between Learning Organization and Job Satisfaction of Primary School Teachers. *International Online Journal of Educational Sciences*, 6(1), 8–20. <https://doi.org/10.15345/ijoes.2014.01.002>
- Fu, W., & Deshpande, S. P. (2014). The Impact of Caring Climate, Job Satisfaction, and Organizational Commitment on Job Performance of Employees in a China's Insurance Company. *Journal of Business Ethics*, 124(2), 339–349. <https://doi.org/10.1007/s10551-013-1876-y>
- Gangai, K. N., & Agrawal, R. (2015). Job satisfaction and organizational commitment: Is it important for employee performance. *International Journal of Management and Business Research*, 5(4), 269–278.
- Hair, J. F., Ringle, C. M., & Sarstedt, M. (2011). PLS-SEM: Indeed a silver bullet. *Journal of Marketing Theory and Practice*, 19(2), 139–152. <https://doi.org/10.2753/MTP1069-6679190202>
- Harahap, F. (2017). The Influence of Principal Managerial Competency toward Teachers' Productivity and Organizational Citizenship Behavior (OCB) By Mediation of Interpersonal Communication of State Vocational High School (SMK) South Tapanuli, North Sumatera. *IOSR Journal of Humanities and Social Science*, 22(01), 29–39. <https://doi.org/10.9790/0837-2201062939>
- Huang, C. C., You, C. S., & Tsai, M. T. (2012). A multidimensional analysis of ethical climate, job satisfaction, organizational commitment, and organizational citizenship behaviors. *Nursing Ethics*, 19(4), 513–529. <https://doi.org/10.1177/0969733011433923>
- Iqbal, A. (2010). An Empirical Assessment of Demographic Factors, Organizational

- Ranks and Organizational Commitment. *International Journal of Business and Management*, 5(3), 16–27. <https://doi.org/10.5539/ijbm.v5n3p16>
- Jandaghi, G., Mokhles, A., & Bahrami, H. (2011). The impact of job security on employees ' commitment and job satisfaction in Qom municipalities. *African Journal of Bussines Management*, 5(16), 6853–6858. <https://doi.org/10.5897/AJBM10.1662>
- Juaneda-Ayensa, E., Emeterio, M. C. S., & González-Menorca, C. (2017). Person-organization commitment: Bonds of internal consumer in the context of non-profit organizations. *Frontiers in Psychology*, 8(JUL). <https://doi.org/10.3389/fpsyg.2017.01227>
- Juliandi, A. (2018). *Membangun Model PLS di SmartPLS*. <https://doi.org/10.5281/zenodo.2538001>
- Jumintono, Suyatno, Zuharty, M., & Said, H. (2018). Vocational schools leadership reinforcement model. *Indian Journal of Public Health Research and Development*, 9(11), 1549–1557. <https://doi.org/10.5958/0976-5506.2018.01669.8>
- Kelly, J. (2015). The Relationship Between Organisational Commitment and Job Satisfaction of Commisioned Officers Within An Arm The South African National Defence Force (Vol. 151). <https://doi.org/10.1145/3132847.3132886>
- Kituto, H. M. (2011). *Factors That Influence Job Satisfaction Among Teaching Staff In Large Public Secondary Schools In Nairobi County*.
- Low, M. P., Ong, S. F., & Tan, P. M. (2017). Would Internal Corporate Social Responsibility Make a Difference in Professional Service Industry Employees' Turnover Intention? A Two-Stage Approach Using PLS-SEM. *Global Business & Management Research*, 9(1), 24–41.
- Mahfouz, S. A., Awang, Z., & Muda, H. (2019). The impact of transformational leadership on employee commitment in the construction industry. *International Journal of Innovation, Creativity and Change*, 7(10), 151–167.
- Martins, H., & Proenca, T. (2012). *Minnesota Satisfaction Questionnaire - Psychometric Properties and Validation in a Population of Portuguese Hospital Workers*.
- Maryati, T., Astuti, R. J., & Udin, U. (2019). The effect of spiritual leadership and organizational culture on employee performance: The mediating role of job satisfaction. *International Journal of Innovation, Creativity and Change*, 9(3),

130–143.

- Matin, H. Z., Jandaghi, G., Karimi, F. H., & Hamidizadeh, A. (2010). Relationship between interpersonal communication skills and organizational commitment (Case study: Jahad keshavarzi and university of Qom, Iran). *European Journal of Social Sciences*, 13(3), 387–398.
- Mehrad, A., & Fallahi, B. (2014). The role of leadership styles on staff 's job satisfaction in public organizations. *Acta Universitaria*, 24(5), 27–32. <https://doi.org/10.15174/au.2014.597>
- Mowday, R. T., Steers, R. M., & Porter, L. W. (1979). The Measurement of Organizational Commitment. *Journal of Vocational Behaviour*, 14, 224–247.
- Mukarromah, I., & Purbaningrum, E. (2019). The Effect of Managerial Skills (Conceptual , Human , and Technical) of Headmasters to the Effectiveness of Islamic Senior High Schools in Jombang District. *International Journal for Educational and Vocational Studies*, 1(6), 539–544.
- Northouse, P. G. (2010). *Leadership Theory And Practice (Fifth Edition)*.
- Nurdin, D. (2015). Kompetensi Manajerial Kepala Sekolah Dalam Membangun Iklim Sekolah Dan Kepuasan Guru Di Sekolah Dasar. *Sekolah Dasar: Kajian Teori Dan Praktik Pendidikan*, 24(1), 45–56.
- Orebiyi, A. ., & Orebiyi, T. . (2011). The Influence Of Intepersonal Communication On Secondary School Teacher's Job Satisfaction And Commitment In Kogi State, Nigeria. *Journal of Communication and Culture: International Perspective*, 2(1), 109–117.
- Prasojo, L. (2017). *Manajemen Human Capital* (1st ed.; Fitriyanti, Ed.). Yogyakarta: UNY Press.
- Sabanci, A. (2016). The Correlation between School Managers' Communication Skills and School Culture, *International Journal of Progressive Education*. *ERIC*, 12(3), 17.
- Saha, R. (2016). Factors influencing Organizational Commitment – Research and Lessons. *Management Research and Practice*, 8(3), 36–48.
- Seyedinejat, S. S. (2014). Prioritizing Managerial Skills Based On Katz's Theory Cast Study: The Managers Of Sports And Youth In Mazandaran Province. *Pamukkale Journal of Sport Sciences*, 5(1), 33–47.
- Sidek, S., & Mohamad, M. R. (2014). Managerial competencies and small business

- growth: empirical evidence from microfinance participants. *International Journal of Management Studies*, 21(1), 39–59.
- Springer, G. J. (2011). A Study of Job Motivation, Satisfaction, and Performance among Bank Employees. *The Journal of Global Business Issues*, 5(1).
- Suresh, S., & Kodikal, R. (2015). Managerial Skills and Job Satisfaction : a Study Among Nurses in Healthcare Sector. *International Journal of Business Economics & Management Research*, 5(July 2017).
- Suyatno, Wantini, Baidi, & Amurdawati, G. (2019). The influence of values and achievement motivation on teacher professionalism at Muhammadiyah 2 high school Yogyakarta, Indonesia. *Pedagogika*, 133(1), 105–127. <https://doi.org/10.15823/p.2019.133.6>
- Tansky, J. W., & Cohen, D. J. (2001). The relationship between organizational support, employee development, and organizational commitment: An empirical study. *Human Resource Development Quarterly*, 12(3), 285–300. <https://doi.org/10.1002/hrdq.15>
- Thamaraiselvi. (2018). Leadership Management Skills And Competencies For Academic Library Leaders In The Digital Environment. *Journal of Social Science and Humanities Research*, 3(4), 123–134.
- Thomas, C. H. (2009). “Three-Skill” of Effective Administrators and Their Comfort Level in the Conduct of the Performance Evaluations of School Psychologists.
- Top, M., Akdere, M., & Tarcan, M. (2015). Examining transformational leadership, job satisfaction, organizational commitment and organizational trust in Turkish hospitals: public servants versus private sector employees. *International Journal of Human Resource Management*, 26(9), 1259–1282. <https://doi.org/10.1080/09585192.2014.939987>
- Toropova, A., Myrberg, E., & Johansson, S. (2020). Teacher job satisfaction: the importance of school working conditions and teacher characteristics. *Educational Review*, 00(00), 1–27. <https://doi.org/10.1080/00131911.2019.1705247>
- Tran, K. T., Nguyen, P. V, Nguyen, T. D., & Hoang, U. N. (2020). The Impact of Organisational Commitment on the Relationship between Motivation and Turnover Intention in the Public Sector. *International Journal of Innovation, Creativity and Change*, 11(12), 1–25.
- Werang, B. R. (2014). Principals ' Managerial Skills , School Organizational Climate ,

and Teachers ' Work Morale at State Senior High Schools in Merauke Regency-Papua-Indonesia. *International Journal of Science and Research (IJSR)*, 3(6), 691–695.

Yücel, I. (2012). Examining the Relationships among Job Satisfaction, Organizational Commitment, and Turnover Intention: An Empirical Study. *International Journal of Business and Management*, 7(20), 44–58. <https://doi.org/10.5539/ijbm.v7n20p44>

Zhou, J., Plaisent, M., Zheng, L., & Bernard, P. (2014). Psychological Contract, Organizational Commitment and Work Satisfaction: Survey of Researchers in Chinese State-Owned Engineering Research Institutions. *Open Journal of Social Sciences*, 02(09), 217–225. <https://doi.org/10.4236/jss.2014.29037>

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