

Teacher Competency Analysis against Students Learning Achievement of Building Technic Expertise Program at Public Vocational High School-1 (SMK Negeri 1) Tomohon

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Abstract: One's learning achievement accordance with successful level of thing in learning lesson materials stated in form of value or report in each field of study after experiencing the teaching and learning process. Teacher's competency is the expertise which is taught or given to the students such knowledge to manage learning plan, learning process, and learning evaluation, to carry out one thing so it can measure teacher competency influence against learning achievement. This research is aimed to analyze teacher competency influence against students learning achievement of SMK Negeri 1 (Public Vocational High School-1) at Tomohon Municipality North Sulawesi. Research design is quantitative research with correlation research approach. Population numbers are 40 students, and the sample taken as well as the number of population. Research instrument uses questioner and final value. In testing the hypothesis uses the equation of regression coefficient, which is preceded with normality and linearity tests. From output research of value *Sig* about 0,001, and probability value of 0.05 or $0.05 > 0,001$, and giving contribution about 26.50%. Teacher's competency has influence significantly against students learning achievement at SMK Negeri 1 Tomohon. In increasing students learning achievement must remark to teacher's competency, that's in reality can give meaningful contribution.

1 INTRODUCTION

Public Vocational High School is a formal education institution that is aimed to implement education program toward the supplying skill so as students able to complete their studies and empowered in the industrial works. Vocational High School consist of economy, agriculture, maritime and technology groups is a formal institution, which is aimed to improve intelligence, knowledge, personality, noble character, and skill for living independently and participate in education (Republic of Indonesia's Government Regulation, 2005). Vocational high education is aimed to prepare the students mainly to for work in such field (The Laws of Republic of Indonesia, 2003). Well educated generation in this institution will be professional technician accordance with their skill that can be counted on to support national development including the development in Tomohon municipality.

In Vocational High School (SMK), the problem of learning achievement is very important to play a

role in the work later or can continue to a further education, but obviously them who graduation from vocational high school with less ability in science fields, as the results the adjustment against education level experiences many problems, mainly related to lesson adjustment.

The existing comprehension is that learning is limited to get knowledge and skill, (such as reading, writing, and others various skills). In fact, learning is wider than those, so individual learns various habits, attitudes, and values. Achievement can be seen from indicators; (a) decision against all of organization stated regulations, (b) can carry out his assignments without any mistakes (or in lowest level of mistakes), (c) Accuracy in doing assignments (Simamora, 2000). Learning is a process of effort carried out by someone to get a new behavior change in a whole, as a result of his experiences in the interaction with his environment (Slameto, 2010). In simply from learning definition as stated by statement above, can be taken a comprehension

about the essence of learning activity is a change that's occurred inside the individual himself.

Learning achievement is the output reached by a student after carry out learning process. The output's reached then will get a space in the treasury of student's knowledge, and every comprehension will influence the structure of the treasury itself totally (Hamalik, 1992). Learning achievement is a level of competency gaining that's owned by students and they receive the learning experiences in a certain range of time (Sudirman and Felows, 1991). Learning achievement is a prove of learning success or student individual ability in carry out his learning activity accordance with his achieving quality (Winkel, 1996).

Learning achievement is every behavior owned by student as the result of the learning process taking off, covers all the result from all learning process in the school both cognitive, affective, or psychomotor (Sanjaya, 2008). Learning achievement is maturity reached by one in thinking, feeling, and acting. Learning achievement will be completed if fulfill the the three aspects namely: cognitive, affective, and psychomotor, otherwise it said that the achievement unsatisfy if someone unable to fulfil the target in those of three categories (Nasution, 2011).

Based on definition above, that learning achievement is a humanity level owned by students in receive, refuse, and assess the informations given from teaching learning process. One's learning achievement is accordance with level of success of thing in learning lesson material stated in form of value or raport in each field of studies after experiencing the teaching learning process. Students learning achievement will be known after carried out the evaluation. The results from evaluation can show about high or low the students learning achievement. The definition of competency is a characteristic can be proved by individual that make it possible the work performance (Dessler, 2005). The characteristics include knowledge and technical and intrapersonal skills (Robbins, 2005). Competency as a knowledge, skill, and quality from effective manager/leader (Rudman, 2000). Further more it said that competency is characteristic which is underlying individual. It can be a motive, character, skill, aspect from individual self image or social role, or a group of knowledge that he's used (Rudman, 2000).

Competency is main component from professional standard beside ethics code as regulation of professional behavior stated in certain controlling procedure and system. Competency is defined and interpreted as a set of effective behavior

related with exploration and investigation, analyze, and thinking, also giving attention, apperception that leads someone finding the ways to reach the certain goals effectively and efficiently. The important characteristics of competencies are: 1) Describe the main skills that can result effective performance at individual work level; 2) Giving the structure way to describe behavior and giving to organization a common comprehension; 3) As basic for selection and development of staffs, giving job framework and clear focus for worker withdrawal, valuation, performance review, and training, and 4) Training is preffered on later performance (Mulyasa, 2012).

Teacher competency in this research is expertise owned by a teacher with specific characteristic based on expertise competency which is taught or is given to the students such as knowledge to manage learning plan, learning process, and learning evaluation, to carry out a thing so as can measure the teacher competency influence against learning achievement.

2 RESEARCH OUTPUT SESSION

From the calculation output of teacher competency against student learning achievement the value of Sig (2-tailed) is 0,001, evidently the probability value is 0,05 bigger than probability value of Sig (2-tailed) or $0,05 > 0,001$, then H_0 is rejected and H_a is accepted means significant. The output calculation of value $R = 0.515$ and determination coefficient is 0,265 shows that 26.50% is the variant occurred at learning achievement of students SMK Negeri 1 Tomohon. Based on the output of hypothesis test, shows that there is a significant influence of teacher competency against student achievement. The result of this research shows that teacher competency contribution against student learning achievement is 26.50%. The output of hypothesis test proves that there is an influence of teacher competency against student learning achievement. Meant, high or low of teacher competency will influence against high or low the student learning achievement. The higher competency of teacher, also the higher student learning achievement. Otherwise, the lower competency of teacher, also the lower student learning achievement. This result is supported by others researcher results and the theories that reveals the existing of influence between teacher competency against student learning achievement. Among others are competency of teacher characteristic has positive and significant influence against student learning achievement through student learning motivation, so it can be concluded

that the higher teacher characteristic competency through student learning motivation, then the higher student learning achievement (Nur and Hadijah 2016). Then teacher competency has positive and significant influence against student learning achievement. Therefore, teacher as education administrator must always develop himself independently and not depend on the headmaster and supervisor initiatives, so can result the students who have living ability generally nor specifically (Sutardi, 2016). Furthermore there is a significant influence of teacher performance against learning achievement of student vocational practice (Linda and Sudira, 2015). The excellent teacher has five components, namely (a) work with student individually; (b) teaching plan and preparation; (c) empowering teaching tool (d) involve the student in various experiences; and (e) living leadership from the teacher. So that can be said that competency which is owned by every teacher shows the quality of the teacher in carry out the lesson. The competency is started from how the teacher's ability to arrange the lesson plan program and carry out that lesson plan (Hasan, 2017). Teacher's quality is key element of academic success of the student (Richard Buddin and Zamarro, 2009). Further the student perception about teaching competency of the teacher in mastering the materials is laid in good category; student perception about teaching competency of the teacher in managing class is laid in good category; student perception about teaching competency of the teacher in using teaching method is laid in good category; student perception about teaching competency of the teacher in using media of learning is laid in very good category; student perception about teaching competency of the teacher in learning evaluation is laid in very good category; student perception about teaching competency of the teacher in mastering learning material is laid in good category; and student perception about teaching competency of the teacher in using learning media is laid in good category (Marianus, 2015). Pedagogy competency of teacher in drawing lesson of top construction in the expertise program of Building Drawing Technic at vocational high school in Surabaya's area is good enough. It's shown with the analysis output calculation is got the number of 110,8 means that based on normal distribution calculation the number is included in high category. Teacher pedagogy competency of drawing lesson of top construction at the expertise program of Building Drawing Technic in vocational high school in Surabaya's region is good and able to give positive contribution against the student, because that factor

is a determinant for the success in teaching learning activity process (Luthfiyah, 2013).

This research design is quantitative research with correlational research approach. While to analyse the influence of one variable with other is used regression equation. Regression analysis is used to analyse the influence pattern between variables which is aimed to know the direct influence or indirect influence of a set independent variables (exogen) against dependent variables (endogen).

3 CONCLUSION

According to research output, then can be concluded that teacher competency gives significant influence against learning achievement of the students of SMK Negeri 1 Tomohon (Public Vocational High School-1 of Tomohon). Means that improving teacher competency such knowledge to manage learning plan, learning process, will improve student learning achievement in this way in the level of ability had been achieved by student after follows the learning process in certain time such as the change of behavior which is related to knowledge, attitude and skill had been got along follows the measured learning activity and put in the form of value will be got through evaluation against learning process. Or in improving the student learning achievement must regard teacher competency in real to give significant contribution.

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