

# Influence of Workshop Facility Toward Results Student Practice on Welding Engineering in SMK Kristen Getsemani Manado

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## ABSTRACT

The purpose of this study was to determine the effect of workshop facilities on students' practicum results in Welding Engineering Subjects at the Getsemani Christian Vocational school, Manado. This research is included in correlational research. The number of respondents as many as 30 people. The instrument for collecting data from practicum results is a questionnaire. Data analysis uses correlational techniques to determine whether there is a significant relationship between the two variables using the product moment correlation methods. The result is that there is a significant influence on the completeness of workshop facilities on the results of student practice on Welding Engineering subjects at the Getsemani Christian Vocational School Manado.

**Keywords:** *workshop facilities, practical, results*

## INTRODUCTION

Workshop facilities are one factor from outside which support improvement of student practicum results. Therefore the workshop facilities must be adequate and managed properly so that its condition always ready use. Incompleteness in facility at a workshop influence the process of study and practice of student. Real student learning potential really influenced by in full tool

and ingredient in in workshop school so that facility that take effect big on development knowledge student specifically in machine technology.

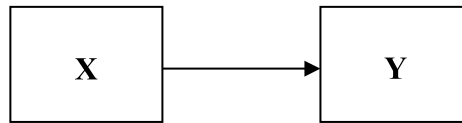
Medium vocational school is an institution that aims to increase intelligence, knowledge, personality, morals glorious, as well as Skills for life independent and follow education more carry on in accordance with his vocational. Education medium vocational in this case Middle School Performance-oriented vocational school (SMK) individuals in the world of work and have justification special on needs in field so that must have sensitivity to development world work so that capable adapt graduate with demands work. For prepare student and graduate In entering the world of work, it must be prepared basic learning programs, learning advanced and program learning application. Program the basic learning that is meant by the process study which given on Step beginning to student in dominate something field, in Thing this given to class base or class X. Advanced learning program is a given learning process after student has finish process study on level base, usually this process of learning is given in class XI. Whereas program learning application is a given learning process to student after finish program learning level advanced, program this given on class end or class XII. On Process Vocational High School learning gradually this Becomes Thing absolute conducted because for get graduate of which capable Becomes power work which professional. Specially in the mechanical engineering department bicycle motorcycle. Process learning which conducted there is level base each other related Among eye lesson which one with which other so that expected each other support and strengthen student in follow the next learning process. At Christian Vocational School Getsemani Manado apply system teaching theory and practice. Theory lesson implemented first then To do by practice. After the learning process is complete expected student could understand and becomes skilled in practice, as well as student able to choose a career, competent and develop attitude professionalism in program skill in the field welding technique and equip students with knowledge and skills.

One of the objectives of implementing the eye welding engineering lessons are students expected able to know about the method of welding technique in order to use advanced technology in increasingly globalized workplace. According to Slameto (2010), facility learning tools are closely related with method of study of the student, because tool which is used by teacher is used too by student to receive the material being taught. A facility which is complete and appropriate will facilitate the acceptance of learning materials given to students. If student are easy to accept lesson and master it, they will become more active and more advanced. Students are required to be able to apply the theory which obtained by practice.

## METHOD

According to Nawawi (2005:4) "method is the main method used to reach destination". Whereas according to Hadi (2004:3), "study is effort for determine, develop and test truth something knowledge, effort which conducted with using scientific methods".

Based on this definition, it can be conclude that the research method isa way that is done in researchscientific research aimed at determining, develop, and test something knowledge with methodsscientific. As for method which used inThis research is a correlational method with design study could depicted as following figure 1.



**Figure 1.** Research Model

Information:

X : Workshop facility

Y : Results Practice

The population in this study is student class X major Technique Bicycle MotorcycleSMK Christian Getsemani Manado SemesterII year teachings 2021/2022 amount 30 person. And for sample in accordance withmethod technique search sample that is make all population to sample, so writer or researcher already no look for method other for determine sample from the population. Technique which is used is data collection with share questionnaire which filled by students of Motorcycle technology.

## RESULTS AND DISCUSSION

Test hypothesis which will tested in study this is influence Workshop facility to Results Practice shiva on eye lesson Technique Welding. The hypothesis states that there is a positive influence Workshop Facilities on the results of students' practicum on the eyes lesson Welding technique class X in Christian Vocational High School Getsemani Manado.

By statistics, Hypothesis the formulated as following.

$H_a : \neq 0$

$H_o : = 0$

the magnitude of the correlation between the two variables is  $r_{yx} = 0.95$  With thereby, from results testing this could concluded that hypothesis received that is there is influence

positive Workshop facility to Results Practice student on eye lesson Welding technique class X in SMK Christian Getsemani Manado. Coefficient of determination is  $r^2 = 0.906$  show that 39 % variation which occur on variable Results Practice (Y) could explained by variable Workshop Facilities (X).

Based on results calculation analysis influence variable Workshop facility on the variable of student practicum results, obtained big coefficient correlation worth 0.95. Based on table interpretation coefficient correlation score r Thing this show influence which strong Among Workshop facility to Results Practice student. As for stating big the small contribution of the variable X (Facilities Workshop) to variable Y (Results student practicum) can be determined by formula coefficient determinant as following:  $KP : r^2 \times 100\% = 0.95^2 \times 100\% = 90.631\%$ . With thereby big influence Workshop facility (X) with The variable of student's practicum result (Y) is as big as 90.631%.

From the calculation results obtained t count worth 16,457. Based on table score critical t on  $\alpha = 0.05$  with degrees freedom (dk) =  $n-2 = 28$  found t table worth 1,701. So t observation is greater than t table that is  $t \text{ count} = 16,457 > t \text{ table} = 1,701$ . Based on criteria testing if  $t \text{ count} > t \text{ table}$  then  $H_0$  rejected which means accept  $H_a$ . with thereby the conclusion is there is influence significant between workshop facility to Results Practice student on eye lesson welding technique class X in Christian SMK Getsemani Manado.

From the results of the discussion show that Very good workshop facilities play a role in determine Results Practice. Because Workshop facility very help for student for reach Results Practice optimal. In this case if a student which have Workshop facility which complete, then the student will have ability for resolve demands without worrying about obstacles which will occur, i.e. get actual score.

Practice vocational need workshop facility which in accordance with vocational teaching taught. Without availability workshop facility which adequate then practical learning is not possible reach destination instructional.

Complete and relevant facilities aim help process study teach by optimal. Remember that facilities are an important so supply need planned with good. Management workshop is Settings all element in in the workshop, whether in the form of humans, tools, and room, so that implementation study teaching in the workshop can run better.

## CONCLUSION

This study concludes If school have facility the workshop good, so student the will be excited, easier to understand, and have description which more real about what he will do next on moment Graduated from school and down in world work. With thereby clear that Workshop facilities are very closely influenced to Results Practice student, by Therefore, parents who want her child has high grades, then the child must be guided especially in the learn it.

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