Development of The Learning Sign System Media to Improve The Result Learn of Students Light Vehicle Engineering Competence

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Abstract

This study aimed to: 1) developing the learning media visual aids to improve the study result of student on sign system competence at SMK automotive, 2) know the feasibility of learning media visual aids to improve the study result on sign system competence at SMK automotive, 3) know the study result after use the learning media visual aids on sign system competence at SMK automotive. This research is *research and development*. The result of this research show that : 1) the process of making learning media sign system formed *stand* and based on analysis the problem and adapted with the need expected can make a media that ready to use. Development steps of learning media sign system on student grade XI TKR SMK PN 2 Purworejo have included teaching of problem potential, collecting information, product design, validation design, reparation design, testing product, trial product, uses testing and revise product., 2) result of design validation by subject specialist or media specialist, testing on the small group and uses testing product show that product can be used as learning media, 3) result t-test with the error 5% prove that the learning media is effective to improve the study result (t_{hitung} = 5,226 > t_{tabel} = 1.708) student grade XI TKR SMK PN 2 Purworejo. Learning media can be used in teaching as media to improve the study result, because on the big group test with the 25 student is success to improve the study result of student.

Key Word: *Learning Media, Sign System, Study Result*

INTRODUCTION

The problems at SMK Automotive as a problem that must be found alternative appropriate solution, because if the students faced the problems in learning activities it will make thestudy result tend to decrease. Effort that doing to improve the study result on sign system competence is using learning method that demand the student to be active during learning process. So, using learning media visual aids is expected learning procces more useful so that the student can do it by him self. This learning related with process skill so that the learning more interesting. Dimyati and Mudjiono (2015: 157) Learning is a process organized by teachers to membelajarkan students in learning how to learn to acquire and process knowledge, skills, and attitudes. While according to Moh. Suardi (2015: 7) learning is the process of interaction of learners with educators and learning resources in a learning environment.

Based on real problem above, so the researcher need a research to survey changing of the study result. The res Œ Z Œ]v š Œ • š š } } š Z Œ Development Œ Z t µ •]v P of the learning sign system media to improve the result learn of students light vehicle engineering competence at SMK Automotive of Purworejo.

The aim of this research to: developing the learning media visual aids to improve the study result of student on sign system competence at SMK automotive of Purworejo, know the feasibility of learning media visual aids to improve the study result on sign system competence at SMK automotive of Purworejo, know the study result after use the learning media visual aids on sign system competence at SMK automotive of Purworejo.

RESEARCH METHOD

Types of this research are research and development, by 8 development procedure steps. This research be held at SMK PN 2 of Purworejo located on Kesatrian street No.17 Pangenrejo, Purworejo. This research be held on April 2016 until Mei 2017. Subject of this research is student grade XI TKR SMK PN 2 of Purworejo that get sign system competence subject. This research uses test and questionnaire method to get the data.

This researcher using instrument the responses of media specialist, responses of subject specialist, responses of students, and study result. The researcher collecting the data uses the questionnaire. This research use quantitative data, then the data is analyzed statistically descriptive. Prerequisite test of data analysis are using normality test, homogeneity test, and t-test.

RESEARCH FINDING

This research shows the difference influence learning media of sign system to improve the study result on electric automotive subject at students grade XI TKR SMK PN 2 of Purworejo in 2016-2017 academic year.

Statistic Indicator	Control Class	Experiment Class
Total	1855,00	2015,00
Average	74,20	80,60
Highest score	80,00	90,00
Lowest score	70,00	75,00
Deviation standard	3,73	4,86