# EFFECT OF APPLICATION OF JIGSAW LEARNING MODEL TO ACHIEVEMENT LEARNING FOR COMPETENCE OF AUTOMATIC TRANSMISSION CLASS XI  AUTOMOTIVE ENGINEERING PROGRAM  SMK NEGERI 2 KEBUMEN

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## ABSTRACT

Jigsaw learning model is a widely used technique that has similarities with the exchange of techniques from group to group with each learner teaches something. Application of the learning jigsaw model in the classroom are expected to affect learning achievement maintain basic competencies automatic transmission class XI student in major Automotive Engineering SMK Negeri 2 Kebumen. The purpose of this study were (1) to determine learning achievement in the application of the jigsaw learning model in the basic competencies of learners maintain automatic transmission Automotive Engineering Program SMK Negeri 2 Kebumen, and (2) to assess how differences in learning achievement automatic transmission to maintain basic competencies of students at class with the implementation of the learning jigsaw model (experimental class) and class lectures with learning application (control class).

The study population was students in grade XI Automotive Engineering Program SMK Negeri 2 Kebumen 2010/2011 academic year 144 students are divided into 4 classes and each class consists of 36 students. The samples were taken by using random sampling technique with a number of samples of two classes. Data collection techniques were using the test. The validation of the instrument of this research was through expert opinion (expert judgments) and analysis about the grain for a free trial class. The approach was using an experiment with a kind of quasi-experimental design with non-equivalent control group design. Data analysis techniques were using t-test one tail on the right with a specified error level of 5%.

Based on the results of research can be concluded that classroom learning achievement given the jigsaw learning model (experimental class) is higher than the grade given lectures learning model (control class). This is evidenced by the t count > t table is 15.086 > 1.69. Student achievement that classes are taught using the jigsaw learning model higher 10.08% compared to the class is taught using lecture learning model.


Keywords: Jigsaw Learning Model; Achievement Basic Learning Competencies Automatic Transmission.